DEC 17 1981

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NRC PDR
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OELD
I&E (3)
NSIC
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Docket Nos. 50-315
and 50-316

Mr. John Dolan, Vice President
Indiana and Michigan Electric Company
Post Office Box 18
Bowling Green Station
New York, New York 10004

Dear Mr. Dolan:

On August 14, 1981 you indicated that you found that the installation of certain safety-related switchgear bus cabinets and motor control centers were found to be inadequate to prevent these safety related equipment from overturning during the Design Basis Earthquake Event (DBE). In your letters dated August 14, 1981 and August 27, 1981 you stated that you were installing temporary modifications to withstand the overturning movement due to the DBE and that the permanent modifications will be designed and installed by August 21, 1981. By letter dated September 24, 1981 you indicated that all the modifications had been completed and you provided the details of these modifications. We have reviewed the information provided and conclude that the modifications are acceptable. Our safety evaluation is enclosed.

Sincerely,

Original Signed By:

Sydney Miner, Project Manager
Operating Reactors Branch No. 1
Division of Licensing

MA
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Enclosure:
Safety Evaluation

cc: See next page

OFFICE	ORB 1	ORB 1					
SURNAME	SMiner/ss	SVarga					
DATE	12/17/81	12/17/81					

Mr. John Dolan
Indiana and Michigan Electric Company

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Chief Nuclear Engineer
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U. S. Nuclear Regulatory Commission
Resident Inspectors Office
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William J. Scanlon, Esquire
2034 Pauline Boulevard
Ann Arbor, Michigan 48103

The Honorable Tom Corcoran
United States House of Representatives
Washington, D. C. 20515

SAFETY EVALUATION REPORT

DONALD C. COOK NUCLEAR PLANT
UNIT NOS. 1 & 2
DOCKET NOS. 50-316 & 50-317

Introduction

Several inadequate cabinet and motor control center installations were discovered in Donald C. Cook Units Nos. 1 and 2. The deficiencies and corrective actions taken were reported and updated in letters from the licensee dated August 14, August 17, August 28, September 24, and November 16, 1981.

Description

As a result of the investigation conducted to satisfy the requirements of Generic Letter 81-14 entitled "Seismic Qualification of Auxiliary Feedwater Systems", the installation of eight safety related switch gear/bus cabinets in both Donald C. Cook Units Nos. 1 and 2, and two safety related motor control centers in Unit No. 2 were found to be inadequate to resist the overturning moment during the Design Basis Earthquake (DBE) event. Since overturning of these cabinets and motor control centers may prevent some safety related equipment from functioning, the deficiencies were reported in letters from the licensee dated August 14, August 17 and August 28, 1981.

A temporary modification was immediately proposed and agreed to by the NRC with the understanding that the reactor power will be reduced to the 60% level. It was also agreed that further operational approval must be obtained from NRC if the temporary modification is not completed within eight hours after reactor power reached the 60% level. The reactor could be returned to 100% power after temporary modification is completed on one train of equipment. However, the temporary modification on the second train must be completed within 24 hours of the completion of that of the first train. In addition, permanent supports must be designed and installed by about August 21, 1981. Confirmation of this agreement was sent to Indiana and Michigan Electric Company in a letter from NRC dated August 18, 1981.

The temporary modification was made in the form of rope tiedowns which provided an approximate factor of safety of 2 on overturning moments. The permanent supporting system consists of angle attachments and weldments anchored in concrete. The system provides factors of safety against overturning moments from 4.0 to 14.3, as reported in the September 24 and November 16 letters from the licensee.

Conclusion

Donald C. Cook Units Nos. 1 and 2 have corrected the deficiencies on a timely and acceptable basis with acceptable factors of safety against overturning moments of 4.0 to 14.3. Therefore, the structural details of the support system should be approved, with continued operation at the 100% power level.