

INDIANA & MICHIGAN ELECTRIC COMPANY

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NEW YORK, N. Y. 10004

January 28, 1983
AEP:NRC:0691B

Donald C. Cook Nuclear Plant Unit Nos. 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
IE INSPECTION REPORTS NO. 50-315/82-07 AND NO. 50-316/82-07

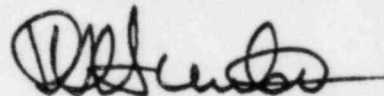
Mr. James G. Keppler, Regional Administrator
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Dear Mr. Keppler:

The Attachment to this letter is the final report prepared in response to the subject Inspection Report concerning the verification of calculations performed for Seismic Class I Piping Systems by outside vendors.

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

Very truly yours,



R. S. Hunter
Vice President

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

Attachment to AEP:NRC:0691B

This attachment constitutes the final report on the verification program performed to insure that all calculations done by outside vendors for Seismic Class I piping systems in compliance with the requirements of I. E. Bulletin 79-14 effort, were performed in a manner comparable to AEPSC's requirements and Q.A. program. This report covers those items noted as open as of the time of our interim report (Reference 2).

Verification Program Results and Conclusions

- a. Verification of the ten randomly selected problems listed in Reference (2) is now complete including supervisory review and approvals. All problems were found to meet AEPSC acceptance requirements as incorporated in D. C. Cook Plant Procedure No. 79-14-10, Rev. 0, "Verification of Consultants' Pipe Stress Analyses for Acceptance by AEPSC".
- b. Procedure No. 79-14-11, "Procedure and Specifications for Performing Re-analysis of Piping Systems per I.E. Bulletin 79-14", formalizes and documents the instructions, specifications, criteria, and requirements that had been provided by AEPSC to its Consultants for the re-analysis of piping systems for the I.E. Bulletin 79-14 program. Copies of Procedure No. 79-14-11 were sent to ATI, EDS, Harstead Engineering, and Teledyne on December 1, 1982 for their review and attestation that their re-analysis was done in accordance with this procedure. Each of these consultants has submitted written confirmation that their I.E. Bulletin 79-14 re-analysis was done in accordance with the above procedure.

Note: Procedure No. 79-14-11 was originally proposed as Procedure No. 79-14-5A and titled "Procedure and Specifications for Consultants for Piping Systems Selected for Computer Re-analysis" (see Reference 2). This procedure was re-numbered and the title was changed as indicated above in the interest of clarity.

ATI, one of our consultants, informed us on January 13, 1983, that there was an error in the computer program ADLPIPE which was used for IEB-79-14 pipe stress reanalysis. The error only involved the calculation of the piping hanger loads for the static analysis. Seismic and force time history analyses are unaffected. Since then ATI has re-reviewed all of the IEB-79-14 problems analyzed by them for AEPSC to determine the effects of the code error. Their review has determined that only one problem, No. 1-031 (Residual