Docket Nos.: 50-315
and 50-316

MAR 0 6 1987

Mr. John Dolan, Vice President
Indiana and Michigan Electric Company
c/o American Electric Power Service Corporation
1 Riverside Plaza
Columbus, Ohio 43216

Dear Mr. Dolan:

During the review of the Indiana and Michigan Electric Company submittal dated July 30, 1986, on the relief valve and safety valve testing, we have identified two areas where additional information is needed. The attached questions were developed by our contractor and pertain to verification of the REPIPE code and stresses on pipe supports in a faulted condition. It is requested that IMEC provide the information or identify the submittal if the information has been provided.

If there are any questions on this matter, please let us know.

Sincerely,

151

Dave L. Wigginton, Project Manager
PWR Project Directorate #4
Division of PWR Licensing-A

Enclosures: As stated

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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Dave L. Wigginton, Project Manager
PWR Project Directorate #4
Division of PWR Licensing-A

Enclosures: As stated

cc: See next page

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Washington, DC 20515

Regional Administrator, Region III
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J. Feinstein
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Columbus, Ohio 43216

UNRESOLVED QUESTIONS ON D.C. COOK, UNITS 1 AND 2

1. The licensee was previously requested to provide verification that the REPIPE program produces accurate fluid forces when used in conjunction with RELAP for discharge transients of the type occurring in a PWR overpressure protection system. The licensee responded by stating that verification of REPIPE's capacity to generate force histories is provided by the Control Data Corporation. This statement does not in itself provide evidence of verification for the program. Therefore, provide a verification of this program by comparing calculated forces with measured forces from the EPRI test data or other similar verification.

2. The licensee has provided load combinations that were used to evaluate adequacy of the piping and pipe supports for normal, upset, and emergency conditions. The load combinations used for these three service conditions are in accordance with FSAR requirements and recommendations of the EPRI PWR Safety and Relief Valve Test Program Guide for Application of Valve Test Program Results to Plant-Specific Evaluations, July 1982. The licensee submittals do not, however, provide a load combination for a faulted condition whereby loads for a worst case blowdown are combined with loads for a worst case seismic event. Such a load combination is specified in the FSAR (Chapter 4, Section 4.3.1) and in the EPRI Guide. Based on the stress values presented in the Teledyne reports included in the licensee submittals, a load combination of Deadweight + Design + Design Basis Earthquake + Safety Valve Discharge $\leq$ 2.4 Sh can be performed for pipe stresses and the resulting stresses for this faulted condition are acceptable.

   The information supplied by the licensee, though, does not permit performing a similar load combination for a faulted condition on the pipe supports. Therefore, determine an allowable stress for pipe support components for a faulted condition and perform a load combination such as Normal + Design Basis Earthquake + Safety Valve Discharge in which the resulting stresses are compared to the established allowables.