



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

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MURRAY R. EDELMAN
VICE PRESIDENT
NUCLEAR

April 18, 1985

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

RE: Perry Nuclear Power Plant
Docket Nos. 50-440; 50-441
Collection of Condensate in
the RCIC Steam Supply Line
[RDC 124(85)]

Dear Mr. Keppler:

This letter serves as our second interim report pursuant to 10CFR50.55(e) on the potential significant deficiency associated with the collection of condensate in the Reactor Core Isolation Cooling (RCIC) steam supply line. Mr. J. McCormick-Barger of your office was notified on January 23, 1985, by Mr. T. A. Boss of the Cleveland Electric Illuminating Company (CEI) that this problem was being evaluated per our Deviation Analysis Report 220. Our first interim report was filed with your office on February 21, 1985.

This report contains a description of the deficiency, actions planned to complete our evaluation, and the planned date for our next report.

Description of Deficiency

Two locations exist in the Reactor Core Isolation Cooling (RCIC) steam header where condensate can collect. One location is upstream of the RCIC inboard isolation valve, 1E51F063, and the other is in the steam supply line to the RHR Heat Exchangers, upstream of valves 1E12F052A&B. Upon initiation of RCIC, the inboard isolation valve opens allowing the condensate to flow and possibly damage the system piping. If the steam condensing mode of RHR was desired, the heat exchanger inlet valves would open, allowing condensate to be introduced to the RHR heat exchanger, possibly damaging the tubes.

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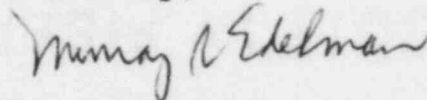
Completion of Evaluation

Gilbert/Commonwealth, Inc. our Architect Engineer has completed their analysis to determine the potential effects of the condensate slug flow on the operation of the RCIC system. We are currently analyzing the safety implications of these effects and determining what corrective actions may be necessary to alleviate them.

We anticipate the final report on this subject to be submitted by May 17, 1985.

Please call if there are any additional questions.

Sincerely,



Murray R. Edelman
Vice President
Nuclear Group

MRE:sab

cc: Mr. J. A Grobe
USNRC, Site Office (SBB50)

Mr. D. E. Keating
USNRC, Site Office (SBB50)

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