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THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

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MURRAY R. EDELMAN
VICE PRESIDENT
NUCLEAR

February 21, 1985

Mr. James G. Keppler
Regional Administrator, Region III
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
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 an interim report pursuant to 10CFR50.55(e) on the potential design deficiencies associated with the buildup of condensate in the Reactor Core Isolation Cooling (RCIC) System. Mr. J. McCormick-Barger of your office was notified on January 23, 1985, by Mr. T. A. Boss of The Cleveland Electric Illuminating Company that this problem was being evaluated per our Deviation Analysis Report 220.

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 steam supply line where condensate can collect upstream of a valve and the Residual Heat Removal steam condensing lines. Upon initiation of the RCIC system the valve is opened and system pressure could cause a slug type flow of the condensate.

Completion of Evaluation

Gilbert/Commonwealth, Inc., our Architect/Engineer, is performing an analysis to determine the potential effects of the slug flow on the operation of the RCIC system.

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FEB 25 1985

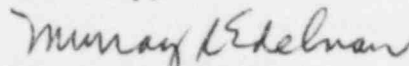
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We anticipate the next report on the subject to be submitted by April 19, 1985.

Please call if there are any additional questions.

Sincerely,



Murray R. Edelman
Vice President
Nuclear Group

MRE:pab

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

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

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