



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
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

RE: Perry Nuclear Power Plant
Docket Nos. 50-440; 50-441
Voltage Drop Affecting ESW
Pumps/Valves [RDC 128(85)]

Dear Mr. Keppler:

This letter serves as the final report pursuant to 10CFR50.55(e) on the potential significant deficiency regarding voltage drops affecting the Division 1, 2, and 3 Emergency Service Water pumps and their associated discharge valves. Mr. J. McCormick-Barger of your office was notified on January 30, 1985, by Mr. T. A. Boss of The Cleveland Electric Illuminating Company that this problem was being evaluated per our Deviation Analysis Report Number 224, and an interim report was subsequently submitted on February 28, 1985. As a result of our analysis, we have determined that this condition is not reportable per the requirements of 10CFR50.55(e).

This report contains a description of the potential deficiency and the results of our evaluation.

Description of Potential Deficiency

Calculations had indicated that the control circuit voltage drop in the close control circuits of the Division 1, 2 and 3 Emergency Service Water (ESW) pumps, 1P45-C001A, 1P45-C001B, and 1P45-C002 may be large enough to result in nonoperation of those pumps.

Results of Evaluation

As noted in our previous report, our remaining concern involved the operation of both the Division 1 and 2 ESW pump close control circuits in response to a Loss of Coolant Accident (LOCA) with a simultaneous loss of both divisional battery chargers. This situation has been determined to be overly conservative in that single failure criteria does not require the assumption of this simultaneous loss.

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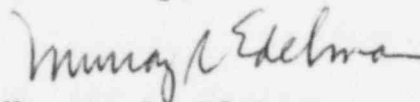
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In the event of a Design Basis Accident accompanied by the loss of a battery charger in one division, the offsite power source or diesel generator for the redundant division will supply AC power to its associated battery charger. This will assure that normal DC voltage is maintained for that division. Field testing has shown that the affected close control circuits will function properly with normal DC voltage present.

Therefore the identified potential deficiency does not represent a condition that would have a significant impact on the safe operation of the PNPP.

Please call if there are any questions.

Sincerely,



Murray R. Edelman
Vice President
Nuclear Group

MRE:sab

cc: Mr. J. A. Grobe
USNRC, Site Office

Mr. D. E. Keating
USNRC, Site Office

Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

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c/o Document Management Branch
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Records Center, SEE-IN
Institute of Nuclear Power Operations
1100 Circle 75 Parkway, Suite 1500
Atlanta, Georgia 30339