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# THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

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MURRAY R. EDELMAN

VICE PRESIDENT  
NUCLEAR

April 30, 1985

PY-CEI/OIE-0039LQ

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  
Class 1E Power System During  
A Loss of Coolant Accident  
With Degraded Offsite Power  
[RDC 132(85)]

Dear Mr. Keppler:

This letter is an interim report pursuant to 10CFR50.55(e) on the potentially significant deficiency concerning the starting voltages to some motors in the Class 1E power system during the simultaneous conditions of degraded offsite power and a loss of coolant accident (LOCA). Mr. James McCormick-Barger of your office was notified on April 1, 1985 by Mr. E. Riley of The Cleveland Electric Illuminating Company that this problem was being evaluated per Deviation Analysis Report 230.

## Description of Deficiency

The Class 1E A.C. power system provides power to safety-related equipment and controls in the plant. The system is divided into three independent divisions: Division 1, Division 2, and Division 3. Each division distributes power at 4.16kV, 480V and 120V.

Load flow studies of the Class 1E power system have indicated that the starting voltages to some 480V motors may be less than the specified minimum (75 percent of nominal as stated in FSAR Section 8.3.1.1.4.lb) during the simultaneous conditions of degraded offsite power and a LOCA.

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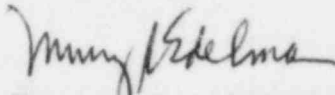
CEI is evaluating the effect of allowing the affected Class 1E motor voltages to fall below the specified minimum during motor starting following a LOCA. The safety implications of this deficiency will be determined based upon this evaluation.

Corrective Action

Notwithstanding the results of the above analysis, we are currently pursuing design changes to modify the sequential loading of the Class 1E loads which are connected following a LOCA with offsite power available. These changes will result in 75 percent or greater starting voltage being supplied to all 480V motors during the simultaneous conditions of degraded offsite power and a LOCA as stated in FSAR Section 8.3.1.1.4.1b.

Another report, either interim or final will be provided when additional information is available. If you have any questions, please call.

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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