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THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

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MURRAY R. EDELMAN  
VICE PRESIDENT  
NUCLEAR

September 28, 1984

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  
Emergency Service Water  
Pumps After Loss of  
Offsite Power  
[RDC 112 (84)]

Dear Mr. Keppler:

This letter serves as the final report pursuant to 10CFR50.55(e) on the deficiency concerning the Emergency Service Water (ESW) pumps after a loss of offsite power (LOOP). Mr. Frank Jablonski of your office was notified on August 31, 1984, by Mr. T. A. Boss of The Cleveland Electric Illuminating Company that this problem was being evaluated per our Deviation Analysis Report 197.

This report contains a description of the deficiency, analysis of safety implications and corrective action.

Description of Deficiency

A Loss of Coolant Accident (LOCA) will automatically start the Emergency Service Water (ESW) system pumps. The ESW pumps also automatically start after a Loss of Offsite Power (LOOP). However, in the event of a LOOP following a LOCA, relay 30 in the pump closing circuit prevents the pumps from restarting.

Analysis of Safety Implication

For the condition of a LOOP following a LOCA, ESW would not be available and the diesel generators would be running with no cooling water. Without prompt operator action to recognize and recover from this problem (10 minutes or less) damage would occur to the diesels. Complete failure could result in thirty minutes or less. In addition, other systems supplied from the ESW pumps would also be without water.

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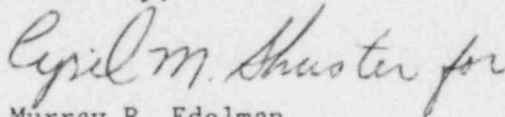
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Corrective Action

Gilbert/Commonwealth (G/C), Inc., our architect/engineer has investigated to ensure that similar logic has not been used elsewhere in the design. ECN 21138-86-403, Revision B, was issued September 21, 1984, to correct this condition for the ESW system.

Please call if there are additional questions.

Sincerely,



Murray R. Edelman  
Vice President  
Nuclear Group

MRE:dlh  
DW165/M/2

cc Mr. M. L. Gildner  
NRC Site Office

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