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MURRAY R. EDELMAN
VICE PRESIDENT
NUCLEAR

February 28, 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 RCIC Valves
[RDC 127(85)]

Dear Mr. Keppler:

This letter serves as the interim report pursuant to 10CFR50.55(e) on the potential significant deficiency regarding starting voltage drops in power feeder cables for three valves in the Reactor Core Isolation Cooling System. 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 222.

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

Description of Deficiency

Calculations have indicated that three Reactor Core Isolation Cooling (RCIC) valves, 1E51-F013, 1E51-F045, and 1E51-F510, may be incapable of operating due to excessive voltage drop in the valve motor circuit conductors when the valve operator is energized.

Completion of Evaluation

Our Architect/Engineer, Gilbert Commonwealth, Inc., completed a study which indicated that the valves should operate even with a reduced starting voltage. Field testing has shown that the valves do operate as installed; however, the testing performed did not simulate the DC voltage that would be present should the RCIC system be activated in the event of a Control Rod Drop Accident with a simultaneous loss of the battery charger. Therefore, additional testing is required to determine if the valves would operate properly under the above conditions.

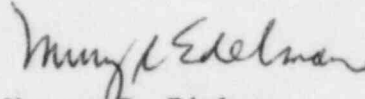
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We will submit our next report to you on or before April 19, 1985.

Please call if there are any questions.

Sincerely,



Murray R. Edelman
Vice President
Nuclear Group

MRE:pab

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

Mr. D. E. Keating
USNRC, Site Office

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