

DMB



# THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

P.O. BOX 5000 - CLEVELAND, OHIO 44101 - TELEPHONE (216) 622-9800 - ILLUMINATING BLDG. - 55 PUBLIC SQUARE

*Serving The Best Location in the Nation*

MURRAY R. EDELMAN

October 25, 1983

VICE PRESIDENT  
NUCLEAR

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  
Evaluation of P72 System Porous  
Concrete Pipes and Weepholes  
[RDC 74(83)]

Dear Mr. Keppler:

This letter serves as a second interim report pursuant to 10CFR50.55(e) concerning our evaluation of partial blockage found in a number of porous concrete pipes and weepholes associated with the pumping drain system portion of the Pressure Relief Underdrain System (P72). Initial notification that this problem was being evaluated was made to Mr. P. R. Pelke of your office on June 10, 1983, by Mr. E. Riley of The Cleveland Electric Illuminating Company. The first interim report was submitted on July 8, 1983.

This report contains a description of the deficiency, the method planned for completion of evaluation including corrective action taken to date, and the planned date for the final report.

## Description of Deficiency

Inspection of the underdrain system manholes revealed varying degrees of blockage in the 12" diameter porous concrete pipes and the weepholes. Additionally, the weepholes in the south wall of the Emergency Service Water Pump House were found in this condition.

The porous concrete pipe and the weepholes are part of the pressure relief underdrain system (P72) provided to ensure that the ground water level around the nuclear island does not exceed 590.0 feet (FSAR Section 2.4.13.5).

## Method Planned for Completion of Evaluation

In our first interim report, we detailed an Action Plan developed to determine the origin and composition of the material causing the blockage. In pursuit of our Plan, all sampling necessary to analyze the ground water and the sediment has been completed. Also, the 12 inch diameter porous pipes, 4 inch weepholes, and underdrain manholes have been flushed clean to remove the sediment blockage. Additionally, to confirm adequate removal, the porous piping was videotaped following the cleaning operations. An inspection program has been initiated for future monitoring on a regularly scheduled basis. This inspection program is in accordance with our commitments in the FSAR, Section 2.4.13.5.4.

8311070499 831025  
PDR ADOCK 05000440  
S PDR

OCT 27 1983

IE27 1/0

Initial chemical analysis of the subject sedimentation has been completed. The results of this analysis are currently being evaluated. To aid in interpreting these chemical results, consultants from the Portland Cement Association (PCA) have been commissioned. To date, the preliminary results of PCA's evaluation indicate that no adverse effect on the strength of the porous concrete has taken place. Currently, PCA is utilizing petrographic analysis of porous concrete samples cored from the underdrain blanket to provide further support of their initial observations.

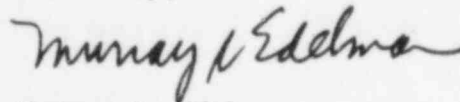
To date the water table beneath the nuclear island has been maintained at a uniform elevation as specified in the FSAR, Section 2.4.13.5.1. The water elevations have been verified on a regularly scheduled basis through the monitoring program of piezometers set forth in the FSAR, Section 2.4.13.5.1.

Planned Date for Final Report

It is our intention to submit a final report on this subject by June 1, 1984. This date will permit completion of our Action Plan and an Engineering evaluation of the results of the investigation.

Please call if you have any questions.

Sincerely,



Murray R. Edelman  
Vice President  
Nuclear Group

MRE:pab

cc: Mr. M. L. Gildner  
NRC Site Office

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

U.S. Nuclear Regulatory Commission  
c/o Document Management Branch  
Washington, D.C. 20555

Records Center, SEE-IN  
Institute of Nuclear Power Operations  
1100 Circle 75 Parkway, Suite 1500  
Atlanta, Georgia 30339