



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

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MURRAY R. EDELMAN

VICE PRESIDENT
NUCLEAR

July 8, 1983

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

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 an 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 is 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.

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). Although the underdrain system can function with blockage in the pipes, and an effective cleaning program is under way, we felt that this condition should be reported while we conducted our investigations to identify the cause of this occurrence.

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Method Planned for Completion of Evaluation

Upon identification of the problem, Site Nonconformance CQC 2770 was initiated. Resulting from the disposition of the Nonconformance, an Action Plan has been developed to determine the origin and composition of the material causing the blockage. The Action Plan includes the following:

1. Conduct a series of tests to determine the chemical properties of the water in the drainage blanket, the manholes, and in the ground itself prior to entering the drainage blanket.
2. Conduct tests to determine the chemical properties of various solids in the blocked areas.
3. Conduct a series of physical tests of the porous concrete with ground water samples to evaluate potential for leaching.

Areas to be sampled have been determined and this phase is currently under way. As the samples are obtained, the blocked portions of the porous concrete pipe and weepholes are being flushed and cleaned. The cleaning process has been effective in removing the sediment from the drainage system. This cleaning is in accordance with our commitments in the FSAR, Section 2.4.13.5.4.

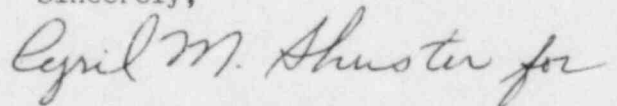
We are following up the cleaning operation with camera surveillance to confirm adequate removal.

Planned Date for Final Report

It is our intention to submit a final report on this subject by November 1, 1983. This date will permit completion of all the testing identified and an Engineering evaluation of the test results.

Please call if there are any additional questions.

Sincerely,



Murray R. Edelman
Vice President
Nuclear

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

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