



July 5, 1979

Mr. James G. Keppler, Director
U.S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Docket Nos.: STN 50-546
STN 50-547
Construction Permit Nos.: CPPR-170
CPPR-171

Marble Hill Nuclear Generating Station
Units 1 & 2

Dear Mr. Keppler:

On June 4, 1979, Mr. C. E. Chmielewski of Public Service Company of Indiana, Inc. (PSI) telephoned your office to notify you of the following reportable incident as required by 10CFR50.55(e). A concrete void was discovered on March 29, 1979 in the auxiliary building slab, elevation 373'6".

PSI, Sargent & Lundy, and Newberg Construction Company personnel visually surveyed the void in the 36-inch thick concrete slab on April 6, 1979. As a result of this inspection, the void was believed to extend vertically from the bottom layer of the reinforcing bars to the mud mat below, a distance of approximately 12". The void was also believed to extend approximately 20' in the north-south direction and approximately 4'6" in the east-west direction.

The concrete void was ultrasonically tested on May 7 & 8, 1979. The results of this test revealed that the void was approximately 25' in the north-south direction and up to 9' in the east-west direction. However, the void still extended approximately 12" vertically. PSI felt that the concrete void could potentially degrade the structural integrity of the auxiliary building and therefore not enable it to meet its seismic requirements. PSI decided that this incident was reportable as a significant construction deficiency under 10CFR50.55(e).

A new procedure, WPN 33, was prepared by the Newberg Construction Company which established methods to repair concrete voids of this size. This procedure was reviewed and approved by Sargent & Lundy and PSI. On June 9 & 10, repair work was initiated with the application of a coating of shotcrete per WPN 33. NRC inspectors were present to witness this work.

Six-day and eleven-day Cylinder Compressive Strength Tests of the shotcrete have already been performed which verify that the required structural strength

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Mr. James G. Keppler, Director

-2-

July 5, 1979

of the concrete slab can be maintained. An ultrasonic examination of the void area was performed on June 29, 1979 and confirmed the adequacy of the above repair work.

Currently, final repair work has not been performed and also all the pertinent documentation has not been finalized. Therefore, the above constitutes an interim report as defined by 10CFR50.55(e)(3). Upon completion of the final repair work and receipt of the final documentation, PSI will submit their final report.

Sincerely,

A handwritten signature in cursive script that reads 'James Coughlin'.

James Coughlin
Vice President-Nuclear

PAB:jb

cc: Director of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

E. R. Schweibinz, P.E.

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