

DMB/50.55(e)



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S. W. Shields
Senior Vice President -
Nuclear Division



September 1, 1981
S21-07

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 and 2

Dear Mr. Keppler:

On March 30, 1981, Mr. T. D. Geib of Public Service Company of Indiana, Inc. (PSI) notified your office of a potentially reportable item as required by 10 CFR 50.55(e). During welding on safety related embedment plates by Cherne Contracting Corporation (CCC), PSI Quality Assurance personnel observed that a few plates were heated sufficiently to cause spalling of the structural concrete in which they were embedded. PSI questioned if such heating might reduce the strength of the concrete locally and consequently the load bearing capacity of the embedment plates.

Subsequent investigation revealed that CCC welding procedures did not control concrete temperature during welding at concrete-steel interfaces, however, their procedures did include controls on maximum embedment plate temperature. CCC has demonstrated their welding processes, adhering to procedural temperature controls, for observers from PSI and its architect-engineer, Sargent & Lundy. The data gathered during this demonstration is presently under evaluation to determine if the present procedures are adequate to protect structural concrete from excessive heating.

This letter is intended to fulfill the requirements of an interim report as defined in 10 CFR 50.55(e). A further report will be filed on or before November 2, 1981.

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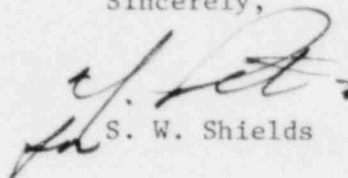
Letter: Mr. J. G. Keppler

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September 1, 1981

If you have any questions on this matter, please feel free to contact me.

Sincerely,



S. W. Shields

TDG/bak

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

E. R. Schweibinz, P. E.
J. J. Harrison