

THE CINCINNATI GAS & ELECTRIC COMPANY



E. A. BORGMANN
SENIOR VICE PRESIDENT

April 29, 1982
QA-1727

U.S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Attention: Mr. J. G. Keppler
Regional Administrator



RE: WM. H. ZIMMER NUCLEAR POWER STATION - UNIT I
10CFR50.55(e) - ITEM M-32, INCOMPLETE HYDRAULIC
ANALYSIS OF CRD PIPING - DOCKET NO. 50-358,
CONSTRUCTION PERMIT NO. CPPR-88, W.O. #57300
JOB E-5590, FILE NO. NRC-8, M-32

Gentlemen:

This letter constitutes a final report for the subject design deficiency initially reported to the Commission under the requirements of 10CFR50.55(e).

The previous interim report, QA-1644, dated February 25, 1982, stated that piping support modifications, based on preliminary loads have been issued for construction.

The final load analysis is now complete. The CRD Hydraulic System is designed to accommodate all Zimmer design basis seismic and dynamic loads plus the hydraulic transient loads induced by scram valve actuation. Although no pipe routing changes are required, various support modifications will be necessary in both the drywell and at the 546' elevation in the Reactor Building. These modifications include:

- A) Lowering the pedestal clamp attachment on the CRD housing in the pedestal area.
- B) Adding additional expansion anchors to the structural frame at the pedestal opening.
- C) Adding sixteen (16) snubbers to the horizontal CRD piping at the 538' elevation.

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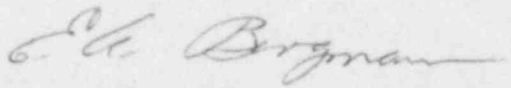
- D) Replacing the tubular restraints on the vertical portion of the CRD lines with high strength, heavier wall tubing. The unistrut members will be replaced with tube sections and the clamps replaced.
- E) Replacing the tubular restraints on the horizontal portion of the CRD lines at elevation 560 ft. with high strength heavier wall tubing. The unistrut members will be replaced with tube sections and the clamps replaced. The two supports will be braced together and restraint struts will be attached to the sacrificial shield wall at two elevations.
- F) Vertical steel posts will be added to brace the HCU tubular supports. Approximately 160 posts are required (80 on each side).
- G) A horizontal truss system will be added to support the tops of the tubular posts.
- H) The CRD tubing above the HCU units will be seismically restrained. The supports will consist of new structural members supported from the existing steel.
- I) A longitudinal plate with clamps on the vertical HCU tubular racks will be added to restrain the HCU units in the North-South direction.

The above listed actions are expected to be complete by December 31, 1982.

We trust the above will be found acceptable as a final report under 10CFR50.55(e).

Very truly yours,

THE CINCINNATI GAS & ELECTRIC COMPANY

By 
E. A. BORGMANN
SENIOR VICE PRESIDENT

FKP:ec
cc: NRC Resident Inspector
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