Consumers
Power
Company

Stephen H. Howell
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December 15, 1978
Howe-265-78

Mr J G Keppler, Regional Director
Office of Inspection and Enforcement
US Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

MIDLAND NUCLEAR PLANT
UNIT NO 1, DOCKET NO 50-329
UNIT NO 2, DOCKET NO 50-330
REACTOR BUILDING SPRAY PIPING SUPPORTS

Reference: S H Howell letters to J G Keppler; Midland Nuclear Plant; Unit No 1, Docket No 50-329; Unit No 2, Docket No 50-330; Reactor Building Spray Piping Supports -

1) Serial Howe-60-78, dated April 19, 1978
2) Serial Howe-92-78, dated June 13, 1978
3) Serial Howe-154-78 dated August 30, 1978
4) Serial Howe-186-78, dated October 13, 1978
5) Serial Howe-231-78, dated November 10, 1978

The referenced letters and this letter are interim reports. Attachment 1 provides the status of the analysis being conducted to resolve the question of the adequacy of the reactor building spray piping supports relative to the ASME Section III Code allowable stress requirements.

Another report, either interim or final, will be sent on or before February 1, 1979.

Stephen H Howell

Attachment: (1) MCAR-22, Interim Report #9, dated December 11, 1978.

CC: Director of Office of Inspection & Enforcement
Att: Mr John G Davis, Acting Director, USNRC (15)

Director of Office of Management
Information & Program Control, USNRC (1)

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Bechtel Associates Professional Corporation

Attachment to BLC-6900

SUBJECT: MCAR #22 (Issued 3/21/78)

INTERIM REPORT #9

DATE: December 11, 1978

PROJECT: Consumers Power Company
Midland Plant Units 1 & 2
Bechtel Job 7220

On the basis of recent results, it appears that our evaluation will be that the reactor building spray anchors and system piping can be utilized as-is, without adverse effect upon the nuclear safety of the Midland Plant, Units 1 and 2.

Status of Corrective Action and Investigation

Earlier, because of the conservatism in the input data, the stipulation was that if the water hammer loads were calculated to be high, the actual time-history water hammer loading curves for the piping could be utilized for stress analyses. However, ITT Grinnell has verbally reported that analysis of the piping system anchors has shown that allowable stresses are not exceeded.

Bechtel has completed analysis of the anchor-to-pipe weld for the maximum water hammer forces using the stress intensification factor for an unreinforced branch and has found that the stresses in the piping system are below the faulted allowable stresses, in accordance with ASME Section III, Class 2.

Forecast Date for Investigation and Corrective Action

A final report is scheduled for completion by January 19, 1979.

Submitted by: O P Anderson

Approved by: [illegible]

Concurrence by: Karl Wiedner

MBP/js
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