



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

JUL 19 1978

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OFFICE OF THE SECRETARY
D.C.

Docket No. 50-329
Docket No. 50-330

Consumers Power Company
ATTN: Mr. Stephen H. Howell
Vice President
1945 West Parnall Road
Jackson, MI 49201

Gentlemen:

Thank you for your interim report dated June 13, 1978, pursuant to 10 CFR 50.55(e) regarding reactor building spray piping supports. We will review your final report on this matter upon receipt.

Your cooperation with us is appreciated.

Sincerely,

R. F. Heishman, Chief
Reactor Constructions and
Engineering Support Branch

cc w/ltr dtd 6/13/78:
Central Files
Reproduction Unit NRC 20b
PDR
Local PDR
NSIC
TIC
Ronald Callen, Michigan Public
Service Commission
Dr. Wayne E. North
Myron M. Cherry, Chicago

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Stephen H. Howell
Vice President



General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201

June 13, 1978
Howe-92-78

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: Letter, S. H. Howell 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, Howe-60-78, dated
April 19, 1978

The referenced letter and this letter are interim reports. Attachments 1
and 2 provide Bechtel Associates Professional Corporation Interim Reports 2
and 3 to MCAR-1 Report No. 22 which provide the status of the analysis
being conducted to resolve the question of adequacy of the reactor building
spray piping supports to the ASME Section III Code allowable stress
requirements.

Another report, either interim or final, will be sent on or before
September 1, 1978.

Stephen H. Howell

Attachments: (1) MCAR-22, Interim Report #2, dated May 5, 1978.
(2) MCAR-22, Interim Report #3, dated June 2, 1978.

CC: Dr Ernst Volgenau, USNRC (15)

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

Dupe of
8006120693
JUN 13 1978

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

INTERIM REPORT #2

DATE: May 5, 1978

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

Status of Corrective Action and Investigation

Interim Report #1 provided a listing of actions initiated in resolving the situation. The status of these actions is updated as follows:

- 1) Grinnell will reanalyse anchors when provided with revised load sheets.
- 2) Piping system reanalysis has been initiated. The intention remains to define specific loadings for each of the subject anchors, rather than utilize a "worst-case" application to all anchors, as had been done previously. Water hammer analysis is in process. Thermal loading information as well as seismic response data for the subject system piping have been generated. This information is currently being transferred to individual anchor load sheets with appropriate axis translations being made for the curvilinear spray piping system.
- 3) Procedural methods have been reviewed and will continue to be monitored.

Forecast Data for Investigation and Corrective Action

Due to the complexity of the piping arrangement, completion of water hammer analysis is now scheduled for late June. Piping stress analysis will then be completed approximately one month later, with final reanalysis by Grinnell to follow immediately thereafter.

Submitted by *Oliver*

Approved by *J.H. Mathew*

Concurrence by *Karl Wiedner*

MP/cap
5/3/6

BECHTEL ASSOCIATES PROFESSIONAL CORPO



SUBJECT: MCAF 422 (Issued 3/21/78)

INTERIM REPORT #3

DATE: June 2, 1978

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

STATUS OF CORRECTIVE ACTION AND INVESTIGATION

No major developments, beyond those provided in Interim Report #2, are reported at the present time. Scheduled dates for water hammer and piping stress analysis are unchanged.

Inasmuch as the next corrective action and investigative milestone, completion of water hammer analysis, is scheduled for completion in late June, the next report will be provided by July 5, 1978.

Submitted by OR Anderson
Approved by JH [Signature]
Concurrence by Karl Wiedner