



Wisconsin Electric POWER COMPANY
231 W. MICHIGAN, P.O. BOX 2046, MILWAUKEE, WI 53201

POOR ORIGINAL

August 15, 1979

RELATED CORRESPONDENCE

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. NUCLEAR REGULATORY COMMISSION
Washington, D. C. 20555

Attention: Mr. Olan D. Parr, Chief
Operating Reactors Branch No. 3

Gentlemen:



DOCKET NO. STN 50-501
ADDITIONAL INFORMATION - PSAR
HAVEN NUCLEAR PLANT

Enclosed herewith are Applicants' responses to your requests for additional information regarding your review of the Preliminary Safety Analysis Report for the Haven Nuclear Plant. The requests for this information were transmitted by your letter dated July 11, 1979. We are providing 25 copies of these responses. The full size copies of geophysical information requested by Item 361.14 and 361.16 are being provided separately.

If you have any questions regarding this information, please contact us.

Very truly yours,

C. W. Fay, Director
Nuclear Power Department

Enclosure

Copy to Service List

Blind Copies to Messrs. C. S. McNeer
P. D. Ziemer
Sol Burstein
R. H. Gorske/A. W. Finke
D. K. Porter
Gerald Charnoff
D. E. Beckwith
N. A. Ricci
F. R. Boucher/S. T. Su
W. C. Craig and J. R. Underkofler

7910220 035

1190 128

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

Before the Atomic Safety and Licensing Board



In the Matter of

WISCONSIN ELECTRIC POWER
COMPANY, ET AL.

Haven Nuclear Plant

Docket No. STN 50-502

SERVICE LIST

Chairman
Atomic Safety and Licensing Board
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Mr. Glenn O. Bright
Atomic Safety and Licensing Board
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dr. E. Leonard Cheatum
Route #3
Box 350-A
Watkinsville, Georgia 30677

Steven C. Goldberg, Esq.
Office of the Executive Legal
Director
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Docketing and Service Section
Office of the Secretary
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Thomas A. Lockyear, Esq.
Assistant Chief Counsel
Public Service Commission of Wisconsin
Hill Farms State Office Building
Madison, Wisconsin 53702

Gerald Charnoff, Esq.
Shaw, Pittman, Potts & Trowbridge
1800 H Street, N.W.
Washington, D. C. 20036

Robert H. Gorske, Esq.
Wisconsin Electric Power Company
231 West Michigan Street
Milwaukee, Wisconsin 53201

Mr. Sol Burstein
Executive Vice President
Wisconsin Electric Power Company
231 West Michigan Street
Milwaukee, Wisconsin 53201

Mr. William Charles Hanley
President
Safe Haven Ltd.
P. O. Box 40
Kohler, Wisconsin 53044

David E. Beckwith, Esq.
Foley & Lardner
First Wisconsin Center
777 E. Wisconsin Avenue
Milwaukee, Wisconsin 53202

Mr. Richard W. Henneger
Bureau of Legal Services
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

POOR ORIGINAL

ENCLOSURE



WISCONSIN UTILITIES PROJECT
HAVEN NUCLEAR PLANT
APPLICANTS' RESPONSE

TO

U. S. NUCLEAR REGULATORY COMMISSION
REQUEST FOR ADDITIONAL INFORMATION

Dated July 11, 1979

1190 130

On page 23 of PSAR Appendix 2P the following statements are made:

"These terraces appear to be associated with channels on the bedrock surface. Good evidence of the association of the terraces with a bedrock channel is observed on Lines 26 and 28 (Figure 100). On these lines a zone of channeling is observed on the bedrock as well as in glacial tills in the immediate vicinity of the terraces. These terraces appear as channel walls on Lines 26 and 28 where the bedrock erosion is more pronounced relative to the erosion on Lines 24, 20 and 32. The bedrock channel trends north-south and extends to Line 44 in the north. In the south it appears to extend to Line 14 with the exception that no channeling was observed on intermediate Lines 22 and 20 (Figure 6). The absence of channeling on Lines 22 and 20 suggests that the bedrock channel may have been eroded away in this area by glacial scouring."

PSAR, Appendix 2P, Figure 6 (Bedrock Features Map) does not reflect the bedrock channel as described above. Specifically, the figure does not reflect the channels extend northward to Line 44 or the southern extension to Line 14. Provide the necessary data and discussion to clarify this apparent discrepancy.

RESPONSE

The description of the bedrock channels on page 23 and 24 of Appendix 2P is based on a preliminary draft of the bedrock contours and the bedrock features maps. The final figures are provided in Appendix 2P, Figures 5 and 6. In order to correct this discrepancy the following should be deleted on page 23:

The bedrock channel trends north-south and extends to Line 44 in the north. In the south it appears to extend to Line 14 with the exception that no channeling was observed on intermediate Lines 22 and 20 (Figure 6). The absence of channeling on Lines 22 and 20 suggests that the bedrock channel may have been eroded away in this area by glacial scouring. A tributary to this bedrock channel was located in the northwestern part of the survey area.

The following should be substituted for the deleted portion of page 23:

Several bedrock channels have been identified on the bedrock surface. They generally trend easterly but swing northerly in the eastern most portion of the survey area (Figure 6).

1190 131

NRC QUESTION 361.14 Appendices 2P and 2Q (NRC Letter dated July 11, 1979)

Provide full size copies of the following offshore Fairfield geophysical lines:

Area I - Lines 15, 17

Area II - Lines 58, 60, 25, 27

RESPONSE

Five full-size copies of the $\frac{1}{4}$ mil and 1 mil data from geophysical lines 15 and 17, Area I, and lines 25, 27, 58 and 60, Area II, are being transmitted separately.

1190 132

NRC QUESTION 361.15 Appendix 2R (NRC Letter dated July 11, 1979)

On page 8 of PSAR Appendix 2R, Weston Geophysical discusses two mapped escarpment like features that they felt could be interpreted as faults. The first feature occurs on Fairfield Lines 18, 26, and 28. It is further discussed in the Fairfield Industries report included as PSAR Appendix 2P. The second feature described by Weston as occurring on Fairfield geophysical lines 44, 15, 17 and 21, is not discussed in the remainder of the PSAR. Discuss in detail all data available concerning this feature, including fault parameters and relationship to the regional geology.

RESPONSE

Pages 3 and 4 of the Supplement to Engineering Geophysical Report Lake Michigan Area I (Appendix 2P) discuss these escarpments. A discussion of these escarpments is also provided in Appendix 2M, Page 2M-15.

1190 133

NRC QUESTION 361.16 Appendix 2Q (NRC Letter dated July 11, 1979)

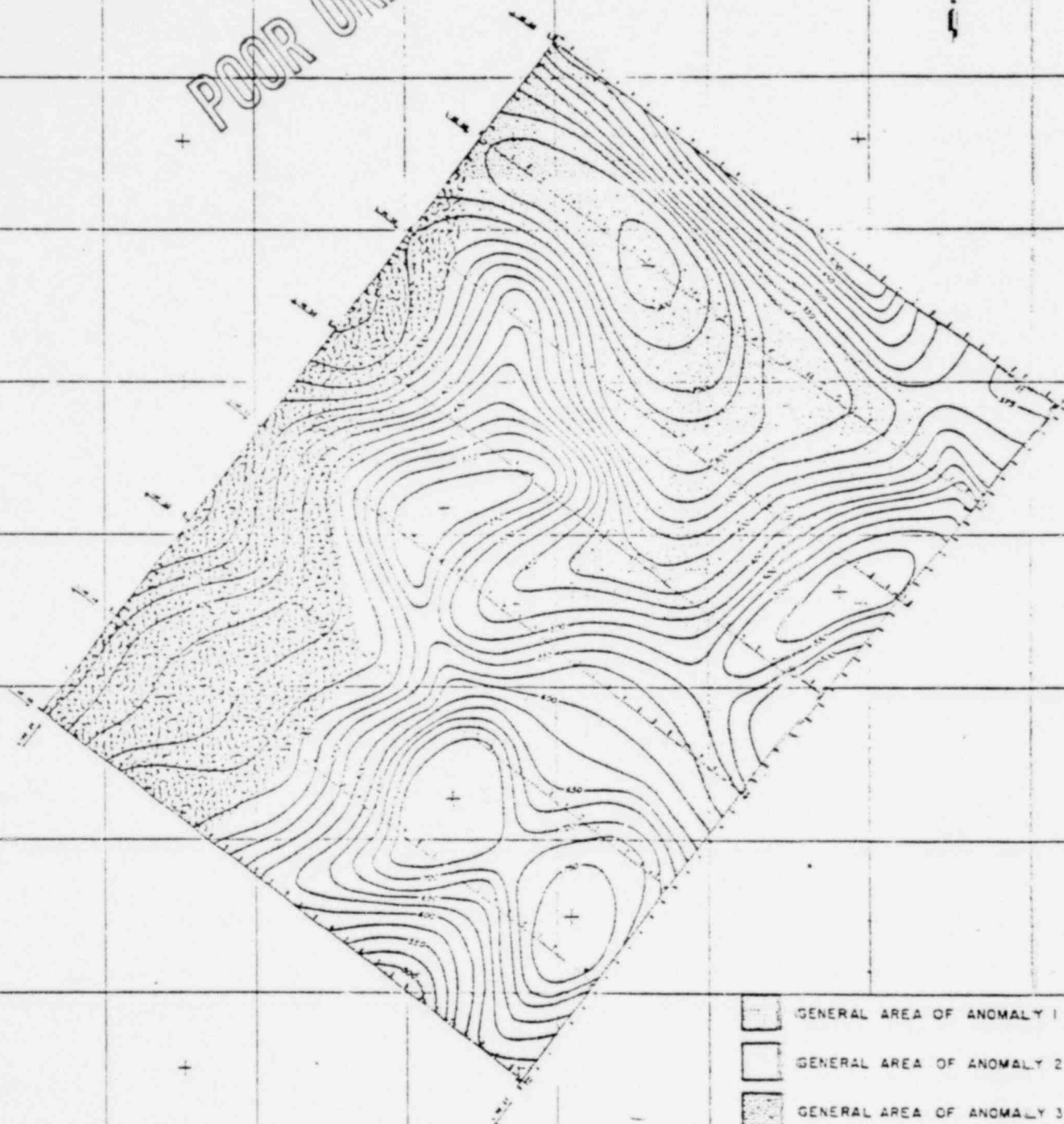
Pages 21 thru 24 of PSAR Appendix 2Q discuss four magnetic anomalies, numbered 1, 2, 3 and 4. The PSAR references Appendix 2Q, Figure 8 for the anomalies location in the Fairfield Study Area II. The location and areal extent of anomalies 1, 2, 3 and 4 is unclear as shown on Figure 8, Appendix 2Q. Please modify Figure 8 to clarify the location and areal extent of these anomalies.





RESPONSE

Figure 8, attached, has been reproduced to show the location and extent of the four magnetic anomalies discussed in Appendix 2Q.

1190 134

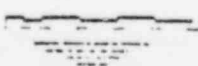
POOR ORIGINAL



-  GENERAL AREA OF ANOMALY 1
-  GENERAL AREA OF ANOMALY 2
-  GENERAL AREA OF ANOMALY 3
-  GENERAL AREA OF ANOMALY 4

LEGEND

1. Contour lines	2. General area of anomaly 1
3. General area of anomaly 2	4. General area of anomaly 3
5. General area of anomaly 4	6. Scale bar
7. North arrow	8. Title block



1190 135

FIELD NO.	1190 135
DATE	10/10/50
TIME	10:00
LOCATION	1190 135
REMARKS	1190 135