

MEETING SUMMARY DISTRIBUTION

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H. Denton

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T. Ippolito

R. Reid

G. Knighton

V. Noonan

A. Schwencer

D. Ziemann

D. K. Davis

G. Lainas

P. Check

J. Scinto, OELD

OI&E (3)

R. Fraley, ACRS (16)

H. Smith

SEP8 Members (13)

Licensee

Consumers Power Company

W. J. Bekius

R. Huston

J. Kuemin

D. Demoor

7812260045



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

DEC 15 1978

MEMORANDUM FOR: D. K. Davis, Chief, Systematic
Evaluation Program Branch, DOR

FROM: T. M. Cheng, Systematic Evaluation
Program Branch, DOR

SUBJECT: SUMMARY OF MEETING WITH CONSUMERS POWER COMPANY -
GEOLOGY AND GEOTECHNICAL SITE VISIT

On November 16, 1978 members of NRC staff met with representatives of Consumers Power Company (attendees listed in Enclosure 1) to discuss technical questions related to the Systematic Evaluation Program (SEP) review of site geology and geotechnical data of the plant, to tour the Big Rock Point site and to identify and obtain information which is not available in the Big Rock Point docket.

The meeting opened with a discussion by T. M. Cheng of the Systematic Evaluation Program Branch addressing the purpose of the visit and the scope of review. The discussions focused on:

1. Settlement of foundations and buried equipment
 - a. Construction records
 - b. Foundation drawings
2. Geology and Topography
 - a. Boring logs and drill cores
 - b. Faulting investigations
 - c. Mappings
 - d. Lineament studies

The staff explained that the local geological and geotechnical information including the engineering properties of the foundation soil will serve both as input into the Lawrence Livermore Laboratory (LLL) Site Specific Spectra development and as a basis for the staff's overall review of geologic and seismic hazards at the Big Rock Point site. The results of discussion and the staff's comments are summarized below.

1. Only limited foundation drawings (Dwg. Nos. 0740G2-0006, -0152, -0251, -0252, -0254) are available for review and the settlement

DEC 15 1978

D. K. Davis

- 2 -

of foundations had not been monitored through monument observations. The licensee agreed to provide as much information as they can before January 1979.

2. A total of seven borings had been taken during construction of the plant. The boring locations and information of boring columns are documented in the report from Soil Testing Services, Inc. to Consumers Power Co. on March 7, 1960
3. Additional borings are being drilled next to the plant structures for generating the engineering properties of the supporting soil. This information will be submitted to the staff by January 1979.
4. The licensee indicated that some ancient faults were located across Lake Michigan and they will not affect the local seismicity at the site. The information of faulting is documented in the PSAR of Haven site, Wisconsin Electric Power Co.
5. The licensee pointed out that as documented in the Hazard Analysis Report, only a few shocks have occurred within a 200 miles radius of the site and a very low seismicity is suggested to be assigned to the site.

For both items 4. and 5., the staff indicated that more investigation is necessary before a conclusion will be drawn.

The site tour included observations of local geology, topography and settlement of foundations. Some foundation cracks were found at joints between plant structures. However, these cracks are not considered to be significant.

A field tour was taken in areas surrounding the site which concentrated on observations of outcrops at local quarries and Petoski Park. Large sink holes appeared to exist, as result of carbonate solutioning, at both limestone quarries visited. Small solution cavities were observed at Petoski Park.

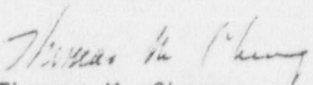
A wrap-up briefing was held after the completion of the field tour. The staff confirmed with licensee the additional information to be provided in the near future.

DEC 16 1978

D. K. Davis

- 3 -

1. Settlement of foundations (January 1979)
2. Soil/rock stratification and the engineering properties of supporting soil (January 1979)


Thomas M. Cheng
Systematic Evaluation Program
Branch, DOR

Enclosure:
As stated

DEC 15 1978

LIST OF ATTENDEES
SITE VISIT - BIG ROCK POINT
NOVEMBER 16, 1978

NRC

Stan Nowicki	ORB #2/DOR
A. T. Cardone	GSB/DSE
T. M. Cheng	SEPB/DOR

CONSUMERS POWER

W. J. Bekius	NAD
Roger Huston	NAD
Jim Kuemin	NAD
Don Demoor	Big Rock Point