

UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

Docket File

July 20, 1970

Roger S. Boyd, Assistant Director for Boiling Water Reactors, DRL
THRU: Robert L. Tedesco, Chief, BWR-2, DRL

TECHNICAL MEETING WITH THE TOLEDO EDISON COMPANY REGARDING THE
DAVIS-BESSE NUCLEAR POWER STATION, DOCKET NO. 50-346

A meeting was held with The Toledo Edison Company on June 25, 1970. The purpose of the meeting was to review the applicant's draft of the site exploration, verification, and remedial program covering possible solution cavities and fissures which might occur in the site bedrock. A list of attendees is enclosed.

Proposed Program

The applicant's site geology consultant, D. Moorehouse of Woodward and Clyde Associates, reviewed the draft of the program covering the concerns of the staff and our consultant, Mr. Waldron, regarding the exploration, verification, and remedial treatment of solution cavities and fissures in the Davis-Besse site bedrock. The program proposed was submitted in Amendment 7 to the PSAR on July 1, 1970.

The proposed program consists of the following:

Part A: Exploration

1. Forty-nine additional borings will be made to the depth of the 470-foot elevation.
2. A geophysical survey will be made using geophones and shot points covering the site bedrock at 5 feet below foundation grade, at the 520-foot elevation, and at the 490-foot elevation.
3. A gravity survey will be made on a 15-foot grid covering the station area. These measurements should reveal any cavities or fissures in the upper 15 feet of bedrock.
4. A resistivity survey will be made on a 20-foot grid covering the station area. These measurements should reveal any cavities or fissures in 15 feet to 40 feet bedrock depth.

mm

8002030090

The applicant's consultant indicated that, using the above three survey methods, any significant cavities or fissures in the station area bedrock should be discovered. It was also indicated that all excavation and borings made to the present time have not revealed any solution cavity or fissures in the station area bedrock.

Part B: Verification Program

The applicant's verification program covers the manner in which any solution cavities or fissures revealed in Part A above will be resolved. The verification program is intended to cover all possible bedrock conditions and provides the necessary remedial treatment for these conditions.

We and our consultant indicated that the proposed program covered the areas of their concern regarding the site bedrock.

At the conclusion of the meeting, we reviewed with the applicant the outstanding matters which must be resolved prior to either going to ACRS review or processing of the applicant's exemption request. The matters which must be resolved are:

1. Flood Protection Level

The applicant indicated the analysis of the storm surge which was requested in Dr. Morris' letter of June 3, 1970, has not been completed. However, the applicant indicated some preliminary analyses indicated the storm surge would be between 12 and 17 feet. This did not include any wave effect. The above storm surge would require TEC to increase the present flood protection level of 585 feet MSL by 3 to 8 feet.

We urged TEC to submit the results of the storm surge analysis as soon as possible to permit an early resolution of the site flood protection requirement. TEC indicated the report should be submitted by the first week in July.

2. Seismic Design

The DRS seismic consultant (Blume) requested some clarification of information provided in Amendment 6. These matters were:

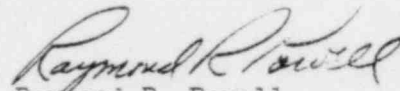
- a. Additional description of model and loads used to determine seismic effect of the Class II turbine building and heater bay on the Class I auxiliary building.

July 20, 1970

- b. Increase the frequency from 20 cps to 30 cps on page IQ-7-3.
- c. Provide additional description of piping analysis given in IQ-7 to indicate how vertical piping will be analyzed.
- d. Provide additional information to support the use of the fixed-base model rather than a coupled model for the seismic analyses.
- e. Change the wording on page 8-9 from "continuous rating" to read "8000-hour rating."

3. Environmental Statement

The applicant indicated the information requested in Dr. Morris' letter of April 24, 1970 would be submitted about August 3, 1970.



Raymond R. Powell
Boiling Water Reactor Branch 2
Division of Reactor Licensing

Enclosure:
List of Attendees

Distribution:

Docket File
DRL Reading
BWR-2 File
P. A. Morris
F. Schroeder
T. R. Wilson
S. Levine
R. DeYoung
D. Skovholt
P. Howe
E. G. Case, DRS
R. Maccary
CO(2)
Branch Chiefs, DRL, DRS
R. Powell
H. Steele

THE TOLEDO EDISON COMPANY

DAVIS-BESSE NUCLEAR POWER STATION

JUNE 25, 1970

LIST OF ATTENDEES

AEC - DRL

R. Tedesco

R. Powell

J. Stolz

A. Cardone

W. Haddican

CO

J. Henderson

Toledo Edison Co.

L. Roe

Woodward-Clyde

D. Moorehouse

Y. Lacroix

USGS

H. Waldron

Bechtel

H. Wahl

A. Yazdi