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

JUL 12 1979

MEMORANDUM FOR: D. Ziemann, Acting Chief
Systematic Evaluation Program Branch, DOR

THRU: C. Hofmayer, Section Leader
Engineering Section, Systematic Evaluation Program Branch, DOR

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

SUBJECT: SUMMARY OF MEETING WITH COMMONWEALTH EDISON COMPANY AND
SARGEANT & LUNDY ENGINEERS - SEISMIC DBE REVIEW OF DRESDEN 1
NUCLEAR STATION

On June 13, 1979, members of NRC staff met with Commonwealth Edison Company and Sargent & Lundy Engineers (attendees listed in Enclosure 1) to discuss technical questions related to the Systematic Evaluation Program (SEP) seismic DBE review of Dresden 1 Nuclear Station, and to identify and obtain information which is not available to the staff.

The meeting opened with a discussion by T. M. Cheng of the SEP Branch addressing the purpose of this meeting. The discussions focused on the following three reports submitted by the licensee.

1. "Stress Report for Primary Containment Penetrations, Dresden Nuclear Power Station - Unit 1," Report No. SAD-257, November 1977.
2. "Seismic Analysis of the Reactor and Steam Drum Support Structure Inside the Containment, Dresden Nuclear Power Station - Unit 1," Report No. SAD-261, January 1977.
3. "Feasibility Analysis of the Primary Containment Vessel to Meet NRC Criteria, Dresden Nuclear Power Station - Unit 1," Report No. SAD-267, February 1977.

The staff explained that the full understanding of these reports listed above including the basic assumptions, modeling techniques, and solution approach will assist the staff in deciding on a reasonable approach with the licensee for demonstrating the structural capabilities of Dresden 1 plant to withstand earthquake effects. The results of the discussions and the staff's comments are summarized below.

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1. The licensee agreed to provide the following information within three weeks:

Primary Containment Vessel

- A) Description of the containment shell model for axisymmetric static load and method of modeling the columns as an equivalent cylinder.
- B) Justification for neglecting the surrounding columns in the dynamic model of the containment shell and stress concentration at the shell-column connections during a seismic event.

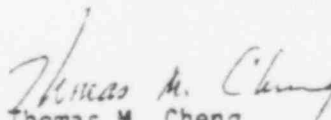
Containment Internal Structures

- A) Justification for modeling one concrete slab into several uncoupled masses instead of one lumped mass at the floor level.
- B) Mode shapes for each mode up to 30 Hz obtained from the existing analysis (Report SAD-261) - both horizontal and vertical models.
- C) Structural responses obtained from existing analysis - to be provided later.

Containment Penetrations

Report (or reports) describing the detail of penetrations, applied loads, methods of analysis, codes and design criteria, and analysis results.

2. After reviewing the information listed above, the staff will get back to the licensee to discuss the future plan for seismic reanalysis that the licensee will follow to complete the SEP effort.


Thomas M. Cheng
Systematic Evaluation Program Branch
Division of Operating Reactors

Enclosure:
As stated

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ENCLOSURE 1

LIST OF ATTENDEES
MEETING WITH COMMONWEALTH EDISON COMPANY AND
SARGENT & LUNDY ENGINEERS, JUNE 13, 1979

NRC

David Segal SEPB/DOR
Thomas M. Cheng SEPB/DOR

CECo

J. S. Graves
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N. Smith
J. L. White

S&L

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V. Kumar
T. J. Victorine

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