

MAY 26 1982

Docket No.: 50-341

Mr. Harry Tauber
Vice President
Engineering & Construction
Detroit Edison Company
2000 Second Avenue
Detroit, Michigan 48226

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Dear Mr. Tauber:

Subject: Mark I Containment Analyses

Your April 30, 1982 letter transmitted the Fermi 2 Containment Plant Unique Analysis Report as scheduled in our March 23, 1982 letter. We and our consultants have started our review of this report.

Your April 30 transmittal letter stated that the report on safety relief valve control system modifications would be submitted later than the scheduled date in our March 23 letter. In conversations with Mr. L. Schuerman we have arrived at a new schedule for submission of this report on safety relief valve control as well as for submission of other information needed to complete our review of the containment analyses. This letter summarizes our current understanding of the scope and schedule for submission of additional information related to the containment plant unique analysis.

The following schedule for submission of additional information related to containment analyses supersedes the schedule provided in our March 23, 1982 letter.

1. The torus-attached piping analysis final report will be submitted prior to March 15, 1983. This report will include the final structural analyses for piping systems attached to the torus, considering the motion of the torus under seismic and hydrodynamic loads.
2. Seismic and dynamic qualification final information for equipment attached to the torus will be provided prior to March 15, 1983. This information will demonstrate that the equipment is qualified to perform its safety function under the combined seismic and hydrodynamic loads on the containment. Equipment required for safe shutdown should use the Fermi 2 site-specific seismic response spectra (see Item 5 below).
3. A report on the safety relief valve control system modifications will be submitted prior to November 1, 1982. The report will include a description of the modifications (referred to as the low low set relief logic), logic diagrams, instrumentation drawings, and analyses of the effects of the modified system on containment hydrodynamic loads and on the overpressure

protection analysis. A commitment should be provided to complete modifications prior to fuel load.

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Mr. Harry Tauber

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4. A report on modifications to the vacuum breakers between the torus and drywell will be submitted prior to August 1, 1982. The report will include results of analyses and tests to demonstrate capability to perform the safety function under accident conditions. A commitment should be provided to complete modifications prior to fuel load.
5. Information will be submitted prior to March 15, 1983 to demonstrate the adequacy of safety margins for the safety relief valve piping, the torus, and torus-attached piping considering the combination of normal loads and seismic input characterized by the Fermi 2 site-specific spectra. The analysis will use the same assumptions and site specific seismic spectra which were used to demonstrate the adequacy of other equipment required for reactor shutdown and continued heat removal in the event of a major earthquake (Fermi 2 Supplementary Seismic Evaluation Report submitted May 27, 1981).

The Fermi 2 Plant Unique Analysis Report indicated that in-plant tests will be used to confirm safety relief valve discharge loads on the torus and on torus attached piping and to establish the maximum local temperature and average temperature of the pool during safety relief valve discharge. Guidelines for these tests are given in NUREG-0661 (July 1980), NUREG-0763 (May 1981) and NUREG-0783 (scheduled to be issued in June, 1982). Provide a description of the test program prior to August 1, 1982, including a description of the tests to be run, a description of test instrumentation, a description of the model to be used to predict plant unique structure response, and the schedule, relative to initial plant startup tests, for completing the tests and reporting the results.

If there are any questions regarding the scope and schedule for submitting the above information please telephone Mr. L. Kintner, the licensing project manager for Fermi 2.

Sincerely,

Original signed by:
B. J. Youngblood
B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing

cc: See next page

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