

SEP 3 1981

Docket No. 50-341

APPLICANT: Detroit Edison Company

FACILITY: Fermi 2

SUBJECT: SUMMARY OF JULY 22, 1981 MEETING REGARDING OPERATING LICENSE
REVIEW

On July 22, 1981, the Mechanical Engineering Branch performed an audit on the seismic reassessment for Fermi 2 mechanical components. The seismic reassessment was performed by Detroit Edison as requested by the NRC staff using site specific seismic response spectra. The NRC staff participating was D. Terao, Mechanical Engineer Branch, NRR. The Detroit Edison engineering personnel included M. Williams and J. Casiglia.

The NRC staff discussed questions that arose after reviewing the Fermi 2, "Supplementary Seismic Evaluation Report", dated July 15, 1981. Detroit Edison addressed the NRC concerns and provided clarification and justification as necessary.

In our audit, we considered all essential seismic Category I piping systems required for the mitigation of the postulated accident. We found several residual heat removal (RHR) Division I piping subsystems that were not computer analyzed in the seismic reassessment; however, those piping subsystems that were excluded from the reassessment were evaluated qualitatively by inspecting the seismic structural response spectra applicable to those subsystems. In comparing the design basis structural response spectra (i.e. 1.875 x OBE) with the new site-specific structural response spectra, we concluded that for the required subsystems, the design basis spectra provides an ample margin of conservatism over the site-specific spectra. The worst case site-specific spectra where the design basis spectra were significantly exceeded by the sitespecific spectra were found to be not applicable to the safety-related mechanical components required for accident mitigation.

As part of our review, the staff audited three of the essential balance-of-plant (BOP) piping subsystem analyses; feedwater, reactor core isolation cooling, and residual heat removal subsystems. The staff found that most of the piping stresses decreased. Those stresses that increased were significantly below the ASME Code allowable stress limits. All piping stresses remained within the ASME Code allowables. All support loads that were audited (including large bore and instrumentation supports) were within their design limits. All equipment nozzle reactions applicable to the three audited subsystems decreased with the new site-specific spectra.

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During the audit, the staff discussed a yet unresolved concern with the applicant. In selecting the structural response spectra for the NSSS piping systems, the applicant had used the response spectra corresponding to the center-of-gravity of the piping subsystem. This method for the selection of response spectra is not acceptable to the staff. We are currently working on an acceptable resolution of this issue with the applicant. We will report our resolution in a supplement to the SER.

Original Signed by
Lester L. Kintner

L. L. Kintner, Project Manager
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MEETING SUMMARY DISTRIBUTION

Docket File

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