

Detroit
Edison

Wayne H. Jens
Vice President
Nuclear Operations

Fermi-2
6400 North Dixie Highway
Newport, Michigan 48166
(313) 586-4150



Nuclear
Operations

May 7, 1985
NE-85-0707

Director of Nuclear Reactor Regulation
Attention: Mr. B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

50-341

Dear Mr. Youngblood:

- Reference: (1) Fermi 2
NRC License No. NPF-33
- (2) Detroit Edison to NRC Letter, "Fermi 2 Vacuum Breakers", EF2-61967, dated March 16, 1983
- (3) Detroit Edison to NRC Letter, "Submittal of Reports for the Fermi 2 Vacuum Breakers", EF2-06296, dated November 9, 1982
- (4) Detroit Edison to NRC Letter, "Evaluation of the Enrico Fermi 2 Drywell-to-Wetwell Vacuum Breakers", EF2-59061, dated August 18, 1982

Subject: Resubmittal of Fermi 2 Vacuum Breaker Report

References (2), (3), and (4) supplied information for the Fermi 2 wetwell-to-drywell vacuum breakers and their ability to withstand chugging and condensation oscillation loads. Reference (4) also documented modifications to be made to the vacuum breakers to assure that they can withstand postulated impact loads from these events. Supplement 5 to the Fermi 2 Safety Evaluation Report stated the generic models proposed by GE had been reviewed by the staff and were acceptable for use for analyses and/or qualification of the vacuum breakers provided the more conservative drywell model was used, plant unique results were submitted, and any plant unique deviations from the methodology were identified.

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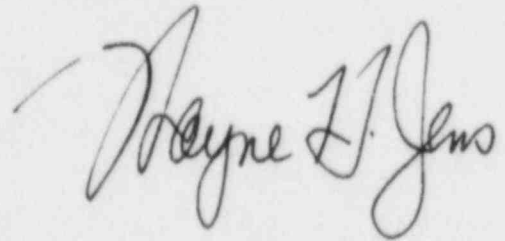
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Accordingly, please find attached a copy of the report, "Mark I Wetwell to Drywell Differential Pressure Load and Vacuum Breaker Response for the Fermi Atomic Power Plant Unit 2" by Continuum Dynamics, Inc.. The report provides plant unique results based on applicable data from Fermi 2. In some cases, generic data was used where the range of plant unique data was shown by CDI not to impact the results. The most conservative drywell model was used and there are no plant unique deviations from the methodology accepted by the NRC. Modifications to the vacuum breakers noted in Reference (4) have been completed and the modified vacuum breakers meet the impact loads in the attached report. This should provide the requested resolution of this item for full power licensing as stated in Section 3.8.1.1 of Supplement 5 to the Fermi 2 Safety Evaluation Report.

Should you have any questions, please contact Mr. O. K. Earle at (313) 586-4211.

Sincerely,



cc: Mr. P. M. Byron
Mr. M. David Lynch
Mr. J. C. Lane
USNRC Document Control Desk
Washington, D.C. 20555