



Consumers
Power
Company

James W Cook

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August 2, 1983

Harold R Denton, Director
Office of Nuclear Reactor Regulation
US Nuclear Regulatory Commission
Washington, DC 20555

MIDLAND ENERGY CENTER
MIDLAND DOCKET NOS 50-329, 50-330
SEISMIC MARGIN REVIEW REPORT
FILE: B3.7.1 SERIAL: 23881

ENCLOSURE: VOLUME V - DIESEL GENERATOR BUILDING
REVISION 1 (25 Copies)

REFERENCE: (1) LETTER FROM J W Cook to H R DENTON, SERIAL 22028,
DATED APRIL 28, 1983
(2) LETTER FROM J W COOK TO H R DENTON, SERIAL 21010,
DATED FEBRUARY 4, 1983

In reference (1), Consumers Power Company submitted Volume V of the Seismic Margin Review Report titled, "Diesel Generator Building" for the Staff's review. Structural Mechanics Associates (SMA), the authors of the report, have identified that incorrect input was used in one of their computer analyses. As a result of this error, the building forces and moments calculated for the Diesel Generator building were affected. Correspondingly, Revision 1 of Volume V of the Seismic Margin Review Report is resubmitted for the NRC review, using the corrected computer input and incorporating several minor editorial corrections within the text.

The above-mentioned information was provided earlier to the NRC (M A Miller) by Company personnel during a telephone conversation on July 21, 1983. As noted during that conversation, the incorrect input occurred in the process of digitizing the top-of-fill ground response spectra for use in computing the building reaction forces. As a consequence, the previously reported seismic margin has been reduced. However, since the digitized ground response spectra is not used to generate in-structure response spectra, the incorrect input did not effect the equipment qualifications presented in Volume VII which was transmitted as Attachment 2 in reference (2). SMA has reviewed all other applications of digitized ground response spectra, both top-of-fill and

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original-ground-surface, and has concluded that the use of incorrectly digitized seismic input was limited to the aforementioned application in the Diesel Generator Building.

The reanalysis of the Diesel Generator Building uses the corrected digitized response spectra. The revised seismic responses, which are conservatively estimated, reduced the lowest margin to code allowable from 1.9 to 1.6. Based on these results, the conclusions made in Attachment 1 of reference (2) on the adequacy of the structure to resist the effects of the Seismic Margin Earthquake per the criteria of the Seismic Margin Review stated in Volume I remain unchanged.

James W. Cook

JWC/MFC/bjw

CC RJCook, Midland Resident Inspector
JGKepler, Administrator, NRC Region III
DSHood, US NRC
FRinaldi, US NRC, (2)
GHarstead, Harstead Engineering
MAMiller, US NRC, Licensing Branch No 4
JDKane, US NRC, HGER

CONSUMERS POWER COMPANY
Midland Units 1 and 2
Docket No 50-329, 50-330

Letter Serial 23881 Dated August 2, 1983

At the request of the Commission and pursuant to the Atomic Energy Act of 1954, and the Energy Reorganization Act of 1974, as amended and the Commission's Rules and Regulations thereunder, Consumers Power Company submits Revision 1 of Volume V of the Seismic Margin Review Report.

CONSUMERS POWER COMPANY

By JW Cook
J W Cook, Vice President
Projects, Engineering and Construction

Sworn and subscribed before me this 4th day of August 1983.

Beverly A. Avery
Beverly A. Avery Notary Public
Jackson County, Michigan

My Commission Expires January 16, 1985