



Consumers
Power
Company

James W Cook
Vice President - Projects, Engineering
and Construction

General Offices: 1945 West Parnall Road, Jackson, MI 49201 • (517) 788-0453

February 16, 1983

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

MIDLAND NUCLEAR COGENERATION PLANT
MIDLAND DOCKET NOS 50-329, 50-330
SEISMIC MARGIN REVIEW REPORT
FILE: B3.7.1 SERIAL: 21047

ENCLOSURE: VOLUME VI-BORATED WATER STORAGE TANK AND FOUNDATION
(25 COPIES)

REFERENCE: LETTER FROM J W COOK TO H R DENTON, SERIAL 21010
DATED FEBRUARY 4, 1983

As an attachment to our letter, Serial 21010, dated February 4, 1983, we submitted the criteria for the Seismic Margin Review, Volume I, for the Staff's review and it was subsequently discussed in a meeting on February 8, 1983 in Bethesda. The firm of Structural Mechanics Associates (SMA) of Newport Beach, CA, under the direction of Dr R P Kennedy was entrusted the task of performing the Seismic Margin Review per the criteria in Volume I. Volume VI, dealing with the evaluation of the seismic margins on the borated water storage tank and its foundation, are submitted for the Staff's review as an attachment to this letter.

Volume VI of the Seismic Margin Review report titled, "Borated Water Storage Tank and Foundation" describes in detail the method of analysis and the resulting seismic margins. The method of analysis used and the resulting seismic margins have been presented by Dr R P Kennedy earlier in both the ASLB hearings for seismic issues in Midland on December 14, 1981 and in the ACRS subcommittee meeting in Midland on May 20, 1982. The margin evaluation for this structure demonstrates that in all cases, the conservatively established margins are greater than 1.43 with respect to code allowables.

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Future volumes of the Seismic Margin Review report dealing with structures and systems will be submitted as they become available.

James W. Cook

JWC/BFH/bjb

CC RJCook, Midland Resident Inspector
RHernan, US NRC (3)
FRinaldi, NRC
GBagchi, NRC
RBosnak, NRC

SMA 13701.05R003 (VOLUME VI)

MIDLAND SEISMIC MARGIN EARTHQUAKE
STRUCTURAL EVALUATION

BORATED WATER STORAGE TANK AND FOUNDATION

prepared for
CONSUMERS POWER COMPANY
Jackson, Michigan

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**STRUCTURAL
MECHANICS
ASSOCIATES**
A Calif. Corp.

5160 Birch Street, Newport Beach, Calif. 92660 (714) 833-7552

8302280176 830216
PDR ADOCK 05000329
A PDR