Consumers Power Company

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September 30, 1981

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

MIDLAND PROJECT
DOCKET NOS 50-329, 50-330
SUBMITTAL OF THE AUXILIARY BUILDING
DYNAMIC MODEL, SERVICE WATER PUMP
STRUCTURE DYNAMIC MODEL AND DESCRIPTION OF SOILS
SETTLEMENT REMEDIAL FIX FOR THE AUXILIARY BUILDING
FILE 0485.16, B3.0.1 SERIAL 14110

REFERENCES: (1) JWCook Letter to HRDenton, Serial 11625 Dated March 23, 1981
(2) JWCook Letter to HRDenton, Serial 13738 Dated August 26, 1981

ENCLOSURES: (1) Service Water Pump Structure Seismic Model
(2) Auxiliary Building Seismic Model
(3) Technical Report on Underpinning the Auxiliary Building and Feedwater Isolation Valve Pits

In our previous correspondence of August 26, 1981 (Reference 2) construction permit level design information relating to the remedial actions for the service water pump structure was provided to the staff. Enclosed are twenty-five (25) copies of the report (Enclosure 1) entitled "Service Water Pump Structure Seismic Model" which is based upon the design information already forwarded to the NRC. In addition, we are providing twenty-five (25) copies each of two reports, Enclosures 2 and 3. Enclosure 2 describes the seismic model for the auxiliary building for computing the building response to seismic loading as well as to generate instructure response spectra. Enclosure 3 represents the construction permit level of design information for the auxiliary building remedial actions. All three of the enclosed documents are provided to complete commitments contained in the "Statement of Agreement" from the ASLB Prehearing Conference Order of May 5, 1981.

The seismic model reports for the service water pump structure and the auxiliary building include the following information: (1) model description, (2) soil-structure interaction considerations; (3) the dynamic model properties; and (4) fundamental frequencies and mode shapes. The auxiliary building model includes full underpinning of the control tower and electrical penetration areas, integrally tied to the main auxiliary building at Column Line H. The service water pump structure model includes full underpinning of the northern

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portion of the building originally supported by the fill. The models reflect the underpinning currently planned and, therefore, are subject to possible revision after the final building structural analysis and NRC staff review is completed. We believe that the enclosed reports combined with our scheduled meeting with the staff during the week of September 30, 1981 provides sufficient information to permit the NRC to review and provide its concurrence with the proposed remedial actions. Your expeditious review and approval would be most appreciated to support the hearings and construction of the remedial work.

for JW Cook

JWC/RLT/bh

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RSDecker, ASLB, w/o
DHood, NRC, w/a (2)
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BCC RCBauman/TRThiruvengadam, P-14-400, w/a
WRBird, P-14-418A, w/a
JEBrunner, M-1079, w/a
AJBoos, Bechtel, w/a
WJCloutier, P-24-611, w/a
BDhar, Bechtel, w/a
BFHenley, P-14-100, w/a
RWHuston, Washington, w/a
GSKeeley, P-14-113B, w/a
DBMiller, Midland, w/a
MIMiller, IL&B, w/a
KBRazdan, P-13-220, w/a
JARutgers, Bechtel, w/a
SLSobkowski, Bechtel, w/a
TJSullivan/DMBudzik, P-24-517, w/o
NRC Correspondence File, w/a