



Consumers
Power
Company

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

MIDLAND PROJECT
MIDLAND DOCKET NOS 50-329, 50-330
FOLLOW-UP RESPONSE TO OPEN ITEM OF PRELIMINARY DRAFT SER 3.6.1
FILE: 0505.805 SERIAL: 16229

Reference: (A) J W Cook Letter to H R Denton, Serial 14835, Dated 11/12/81

Enclosure: Follow-Up Response to Open Item of Preliminary Draft SER 3.6.1

Reference (A) responded to the open items of preliminary draft SERs 10.4.9 and 3.6.1. Enclosed is an expanded response to SER 3.6.1 open item.

Based on the enclosed information, CP Co believes that the MSIV's do not need to be environmentally qualified and the Staff can close out this open item.

JWC/PEP/fms

James W. Cook

CC RJCook, Midland Resident Inspector
RHernan, US NRC
DBMiller, Midland Construction (3)
ODParr, US NRC
RWHuston, Washington

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DRAFT SER 3.6.1
FOLLOW-UP RESPONSE

Bill Lefave, Auxiliary Systems Branch, has expressed a concern regarding environmental qualification of the Midland Main Steam Isolation Valves (MSIVs) located within the tornado shielding on the auxiliary building roof. The MSIVs are located within the break exclusion zone which was designed in accordance with Branch Technical Position MEB 3-1, Rev 0, dated 11/24/75 and, as a result, breaks need not be postulated. The NRC agreed with this position in a meeting on September 13, 1978, which was prior to the addition of the tornado shielding.

The addition of the tornado shielding does not significantly change the environment to which the MSIVs would be exposed. Preliminary calculations performed for effects of pressurization within the tornado shielding, showed a peak pressurization of 0.1 psig on a global scale after a complete severance of an 8 inch diameter branch line coming off of a main steam line. The pressure buildup was small because of the large vent area of the tornado shielding. This would also tend to minimize temperature peaks after a line break.

In addition, the actuators and their associated electrical components are enclosed in steel housings which would further reduce the effects of temperature and pressure transients.