



Consumers  
Power  
Company

James W Cook  
Vice President - Projects, Engineering  
and Construction

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March 31, 1983

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

MIDLAND ENERGY CENTER PROJECT  
MIDLAND DOCKET NOS 50-329, 50-330  
CONTROL ROOM DESIGN REVIEW  
FILE 0961 SERIAL 21635

Enclosed for your Staff's review are 10 copies of the "Midland Plant Control Room Design Review Final Report." This report discusses the methodology, findings and corrective actions to be taken based on a human factors review of the control room. There are several areas which could not be reviewed due to the construction status of the control room. These include evaluations of lighting, environment and workspace arrangement. Categories which could not be evaluated are documented within the report and a schedule is provided for completing these aspects of the review.

A NRC letter from R Hernan to Consumers Power Company dated December 16, 1982 provided a summary of a meeting held on October 22, 1982 to discuss Dual Operator Licensing. This letter documented our commitment to provide a report describing what is being done to enhance the human factors of the control room and to document the differences between the two units control panels. The enclosed report provides this information in Section 2.1.3.

Generic Letter No 82-33 dated December 17, 1982 discusses documentation requirements for the Control Room Design Review. The enclosed report, in conjunction with our program plan report which was submitted January 15, 1982, provides this documentation. If your Staff intends to perform a pre-implementation onsite audit, we would appreciate being informed as soon as possible so that arrangements can be made to support the audit.

The enclosed report, in conjunction with our program plan, provides the information necessary for your staff to begin their review of SER Open Item (15). Although not all elements of the CRDR have been completed, the majority of the review has been performed and plant modifications are in progress which will significantly improve the man-machine interface. The few remaining items

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to be reviewed are not expected to result in significant changes to the control room.

*James W. Cook*

JWC/RMH/fms

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

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

Letter Serial 21635 Dated March 31, 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 the response to SER Open Item 15 entitled "Midland Control Room Design Review Final Report" documenting the methodology, findings and corrective action to be taken based on a human factors review of the control room.

CONSUMERS POWER COMPANY

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

Sworn and subscribed before me this 6<sup>th</sup> day of April 1983.

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

My Commission Expires January 16, 1985