



Consumers  
Power  
Company

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February 15, 1982

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

MIDLAND PROJECT  
HIGH ENERGY LINE BREAKS AND  
CONSEQUENTIAL CONTROL SYSTEM FAILURES  
FILE: 0927.1 SERIAL: 15957



ENCLOSURE: Report on "High Energy Line Breaks and  
Consequential Control System Failures - Midland 1 and 2

REFERENCE: Letter to J W Cook, Consumers Power Company on "High Energy Line  
Breaks and Consequential Control System Failures - Midland Plant,  
Units 1 and 2" (IE Information Notice 79-22), from Robert L  
Tedesco, Assistant Director for Licensing, Office of Nuclear  
Reactor Regulation, April 16, 1981

The attached report is Consumers Power Company's response to the referenced  
letter.

On November 17 through 20, 1981 the NRC Staff met in Ann Arbor, Michigan with  
Consumers Power Company to discuss instrumentation and control systems for the  
Midland Plant, Units 1 and 2. At that time Consumers Power described our  
activities on this subject and agreed to submit the attached report by  
February 15, 1982.

We have reviewed the plant licensing basis analyses, as presented in the FSAR,  
in order to determine the non-safety-grade control system assumptions and  
responses used in the analyses. These non-safety-grade control systems were  
then reviewed to determine if the accident environment of a high energy line  
break could adversely affect the analyzed course of the event.

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Based on these reviews we conclude that this non-safety-grade equipment, if subjected to the adverse environment of a high energy line break, will not cause control system failures to complicate the event beyond the FSAR analysis.

*James W. Cook*

JWC/IAK/jvm

CC RJCook, Midland Resident Inspector  
R Hernan, US NRC  
DBMiller, Midland Construction (3)  
RWHuston, Washington  
UFI