



General Offices: 1945 West Parnall Road, Jackson, MI 49201 • (517) 788-0550

February 22, 1988

Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

DOCKET 50-155 - LICENSE DPR-6 - BIG ROCK POINT PLANT -  
SCREENHOUSE FIRE PROTECTION EXEMPTION - RESPONSE TO VERBAL REQUEST FOR  
ADDITIONAL INFORMATION

Consumers Power Company was verbally requested by the Big Rock Point Acting NRC Project Manager to provide additional information regarding our Screenhouse Fire Protection Exemption Request dated October 14, 1986. The additional information is needed to allow continued NRC review of our request. The specific additional information requested was:

1. Copy of procedure used to effect replacement of the Service Water Pump motor.
2. Copy of procedure used to effect connection of temporary hose for air compressor cooling.
3. More detailed information, if available, on time required to change out motor including information on motor size.
4. More detailed information on the extent of cable replacement required should the Service Water Pump motors be damaged by a fire.

Our response to this request follow.

Emergency procedure EMP 3.10 (Attachment 1) covers plant response to fires. Appendix I of EMP 3.10 contains the contingency actions necessary to reach cold shutdown. Sections I-1.3 and 1.4 of this Appendix provide the direction for connecting a Service Water Pump to the Emergency Diesel Generator assuming a loss of normal power. Appendix IV provides additional safe-shutdown direction after severe screenhouse fires which require replacement of the Service Water Pump motor, and connection of the temporary demineralized water hose for air compressor cooling.

8802260087 880222  
PDR ADDCK 05000155  
F PDR

OC0288-0048-NL04

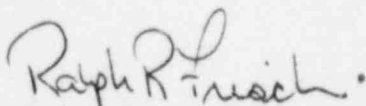
4006  
1/1

The spare motor is stored in the stockroom which is located approximately 300 yards from the screenhouse. Attachment 2 is a motor outline drawing. The motor is approximately 24" in diameter and 40" long and weighs approximately 800 lbs. As discussed in the October 14, 1986 Exemption Request, the motor can be transported to the screenhouse via crane truck, forklift, or pickup truck.

Vendor instructions (Attachment 3) are used for Service Water Pump motor removal and installation. Maintenance personnel receive skills training in precision measurement/coupling alignment along with motor repair and installation. Following motor replacement, direction in EMP 3.10, Appendix I is used to connect the cables from the Emergency Diesel Generator to the motor if required.

Overhaul of the No. 1 Service Water Pump was completed in February, 1987. Complete pump removal including motor disassembly was completed in approximately eight hours and reinstallation in approximately nine hours by three repairmen. Three repairmen can remove, replace, and align the spare motor within five to six hours. Spare cable hookup, if necessary, can be completed in less than one hour. The spare cable (3 conductor, #2 AWG) is stored in the Emergency Diesel Generator room and is approximately 160 feet long. The shortest distance from the motor controllers in the Emergency Diesel Generator room to the Service Water Pumps is approximately 70 feet. The spare cable has been installed and both Service Water Pumps have been trial run with the spare cable.

All of these repairs can be completed well within the required 36 hour time period discussed in the Exemption Request. Additional fire protection program supporting information has been provided in the Fire Protection Hazards Summary document submitted by our letter dated February 27, 1987.



Ralph R Frisch  
Senior Licensing Analyst

CC Administrator, Region III, NRC  
NRC Resident Inspector - Big Rock Point Plant

Attachments