Consumers Power Company

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May 4, 1981

Director, Nuclear Reactor Regulation
Att Mr Dennis M Crutchfield, Chief
Operating Reactors Branch No 5
US Nuclear Regulatory Commission
Washington, DC 20555

DOCKET 50-155 - LICENSE DPR-6 - BIG ROCK POINT PLANT - GENERIC ISSUE - ADEQUACY OF STATION ELECTRIC DISTRIBUTION VOLTAGES

Consumers Power Company letter dated March 23, 1981 provided responses to the questions of NRC letter dated January 27, 1981. Staff review of our responses resulted in two additional questions which were answered in a telephone discussion. The following provides a summary of those questions and our responses:

Question 1 (Ref Item 5 of CPCo letter dated March 23, 1981):

Will the fuses that protect the MCC contactors and starters overheat due to abnormal voltage conditions?

Response:

The second level of undervoltage protection has been provided to preclude this occurrence. Specific details of the undervoltage protection may be found in our June 14, 1978 submittal (Response 1c(3)).

Question 2 (Ref Item 6 of CPCo letter dated March 23, 1981):

Will the electric fire pump stall when the condensate pumps are started?

Response:

The Item 6 response shows the voltage on Load Center (LC) #2 drops to .8028 Pu during condensate pump starting. This appears to be a low value which could result in fire pump stalls. It should be noted that the .8028 Pu value is on a

480 V base and that the fire pump motor is 440 V rated. Therefore, on a 440 V base, the LC #2 voltage would be .8757 Pu. The fire pump motor terminal voltage would be a few percent less due to losses in the cable, but the motor would not stall when the condensate pumps are started.

Gregory C Withrow (Signed)

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