



Consumers  
Power  
Company

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January 22, 1981

Director, Nuclear Reactor Regulation  
Att Mr Dennis M Crutchfield, Chief  
Operating Reactors Branch No 5  
U S Nuclear Regulatory Commission  
Washington, D C 20555

DOCKET 50-155 - LICENSE DPR-6 -  
BIG ROCK POINT PLANT - ANCHORAGE  
AND SUPPORT OF SAFETY-RELATED  
ELECTRICAL EQUIPMENT

On January 21, 1981, a conference call was held between W Paulson, T Cheng, R Herman and W Russell (part time) of the NRC and G C Withrow, R B Jenkins, R A Vincent and W J Beckius (part time) of Consumers Power Company. The purpose of this call was to discuss the anchorage and support of safety-related electrical equipment at the Big Rock Point Plant.

The issue of anchorage and support of safety-related electrical equipment was originated by NRC letter dated January 1, 1980. Consumers Power Company responded to this letter with submittals dated February 13, 1980, and March 31, 1980. Further guidance was provided in NRC letters dated July 28, 1980, concerning equipment anchorage and August 4, 1980, concerning the overall seismic evaluation program. Consumers Power Company letter of October 10, 1980, stated that the July 28, letter "...expanded the scope well beyond the bounds of the January 1, 1980, letter, thereby leading to significant problems in meeting the NRC desired schedule of December 31, 1980". It was also stated that it was our intent "... to assure by December 31, 1980, that the major floor and wall-mounted electrical equipment is anchored so that it will remain in place when subjected to preliminary floor response spectra from the ongoing structural program, ...".

At present, the evaluations of the anchorage and support of all safety-related electrical equipment have been completed; and a number of necessary or desirable modifications have been identified. Attachment 1 provides a list of modifications which will be performed. It should be noted that this list also includes items which are technically outside the scope of this program, but which could potentially affect nearby safety-related electrical equipment in the event of an earthquake. A priority has been assigned to each item to ensure that the most important modifications are completed as quickly as feasible. Priorities are based on the following criteria:

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Mr Dennis M Crutchfield  
Big Rock Point Plant  
January 22, 1981

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1. Number of systems or components serviced or affected by the item.
2. Proximity to other safety-related equipment and to other items being modified.
3. Ability to modify during plant operation.
4. Availability of final designs.

The general approach to determining the need for and design of modifications was as follows:

1. Develop floor response spectra for the areas of interest.
2. Using the appropriate spectra, analyze the existing equipment configuration to determine adequacy.
3. If analysis showed inadequate or marginal support, determine appropriate modifications and perform verification analyses.
4. Finalize design drawings and verify feasibility of proposed modifications.
5. Perform modification.

It was the intent of Consumers Power Company to complete all modifications by December 31, 1980. Final designs, however, were directly dependent on the floor response spectra which were received too late to support this date. At the time of our telephone conference, two items were complete and the remaining items were being pursued on a priority basis. It is our intent to complete the remaining priority 1 items, with the possible exception of item 11 (located in the screen-house) prior to bringing the plant on line from the present refueling outage. These priority 1 items are important for plant operation, affect many components and are in close enough proximity to each other to make it imprudent to work on them during plant operation. Work on the remaining items will continue with the plant on line. It is expected that eight weeks will be required to complete the remaining modifications. Therefore, all modifications are expected to be complete by April 1, 1981.

David P Hoffman (Signed)

David P Hoffman  
Nuclear Licensing Administrator

CC Director, Region III USNRC  
NRC Resident Inspector - Big Rock Point

Attachment

ATTACHMENT 1  
 BIG ROCK POINT PLANT  
ANCHORAGE AND SUPPORT OF SAFETY-RELATED ELECTRICAL EQUIPMENT

<u>Item No</u>	<u>Designation</u>	<u>Description of Modification</u>	<u>Priority</u>
2	EDG Room Heater	Eliminate friction clamp	3
4	EDG Battery	Analyzed as acceptable	NA
8	EDG Water tank	Chain to I beam	3
9	DFP Battery	Wrap/anchor frame	Done
11	MCC 1C, 2C	Add anchor to floor	1
12	DFP panel	Add anchor to wall	Done
13	EFP panel C-17	Add anchor to floor	3
14	Hypo tank	Brace	3
16	Junct boxes	Analyzed as acceptable	NA
17	Ship container	Chain to wall	3
19	Computer	Add anchor to floor	2
20	Sta battery rack	New rack	1
25	125 VDC MCC	Add anchor to floor	1
27	MCC 1A	Add anchor to floor	1
28	Mg set Panel	Add anchor to floor	1
29	MCC 2B	Add anchor to floor	1
30	MCC 2A	Add anchor to floor	1
31	480V load center	Add anchor to floor	1
36	Air compressor panel	Analyzed as acceptable	NA
37	Panel C-30	Add anchor to floor	2
38	MCC 2D	Add anchor to floor	2
39	Panel C-20	Add anchor to floor	2
41	Panel 2P	Brace	2
44	Panel C-26	Brace	3
52	Main Panels C01, C02	Add anchor to wall	2
	N2 bottle rack	Replace chains	3

- NOTES:
1. Table includes all items judged on a preliminary basis to require modifications in March 31, 1980, submittal, even if subsequent analyses showed modifications not required.
  2. All items in March 31, 1980, submittal which do not appear in this table have been verified acceptable by analysis.
  3. Item numbers correspond to those in CPCo submittal of March 31, 1980.