

DO MS-016

AUG 29 1983

Docket Nos. 50-266
and 50-301

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Mr. C. W. Fay
Vice President - Nuclear Power
Wisconsin Electric Power Company
231 West Michigan Street
Milwaukee, Wisconsin 53201

Dear Mr. Fay:

On August 8, 1979 the NRC transmitted its generic letter regarding adequacy of station electric distribution system voltages to all power reactor licensees. Licensees were requested to review the electric power systems at each of their facilities to determine analytically if, assuming all onsite sources of AC power are not available, the offsite power system and the onsite distribution system are of sufficient capacity and capability. The systems must be able to automatically start and operate all required safety loads within their required voltage ratings in the event of an unanticipated transient (such as a unit trip) or an accident (such as a loss of coolant accident) regardless of automatically initiated electric power system actions and without the need for manual load shedding. Verification testing was required. In addition, licensees were requested to review the electric power systems to determine if any single event or condition could result which could cause a simultaneous or consequential loss of both required circuits to the offsite power network in order to determine compliance with General Design Criterion (GDC) 17.

You responded to our generic letter and subsequent followup requests for additional information by letters dated October 12, 1979, January 21, June 1, and December 30, 1981, June 1, September 10 and October 29, 1982, and March 14, and June 30, 1983.

We have completed our review of your submittals. Our review of your analysis and testing supporting the adequacy of the electric distribution and power systems at Point Beach to provide sufficient capacity and capability to operate safety related loads during an accident or transient is contained in the enclosed staff "Safety Evaluation (SE) Point Beach Nuclear Plant Units 1 and 2, Adequacy of Station Electric Distribution System Voltages" (Enclosure 1) with the attached associated Technical Evaluation Report (TER) by our contractor, Lawrence Livermore National Laboratory.

Our overall assessment of the Point Beach Electric distribution system's compliance with GDC-17 is contained in the above SE. However, you identified in your submittals one portion of the system you felt was not in strict compliance with GDC-17, that is, the relatively close

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Mr. C. W. Fay

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physical proximity of the two low voltage station transformers. This same concern was identified by the resident inspector during a followup inspection related to this matter. Our evaluation of the low voltage station auxiliary transformers was conducted by Region III personnel. The results are contained in the enclosed "Safety Evaluation of the Preferred Power Systems Conformance to General Design Criterion 17" (Enclosure 2).

Based upon our review, we find that the electric distribution system at Point Beach Nuclear Plant is acceptable and this item is therefore resolved for your facilities. However, we noted during the review that you are making arrangements to develop procedures for backfeeding power through the main transformers in the event that that Unit's low voltage station auxiliary transformer became inoperable in order to re-establish a second circuit to the offsite power network. Further, we noted that you are making arrangements to establish an onsite inventory of spare parts for the low voltage station auxiliary transformers in order to facilitate expeditious repair should one become inoperable. As stated in the enclosed Safety Evaluation, contingent upon completion of these arrangements, we find the proximity of the low voltage station auxiliary transformers to be acceptable. We request that you keep us informed of your progress in this regard. Please contact your project manager, Mr. T. Colburn, if you have any questions.

The reporting requirements contained in this letter affect fewer than 10 respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

Original signed by

J M Trammell
Sgt James R. Miller, Chief
Operating Reactors Branch #3
Division of Licensing

Enclosures:

1. Safety Evaluation Adequacy of Station Electric Distribution Voltage with attached Technical Evaluation Report
2. Safety Evaluation Preferred Power Systems Conformance to GDC-17

cc: See next page

OFFICE	ORB#3:DL	ORB#3:DL	ORB#3:DL	ORB#5:DL		
SURNAME	PMKreutzer	TColburn/pn	JRMiller	DDudley		
DATE	8/24/83	8/26/83	8/29/83	8/26/83		

Wisconsin Electric Power Company

cc:

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