

May 24, 1994

Docket Nos. 50-266
and 50-301

Mr. Robert E. Link, Vice President
Nuclear Power Department
Wisconsin Electric Power Company
231 West Michigan Street, Room P379
Milwaukee, Wisconsin 53201

Dear Mr. Link:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION REGARDING THE INSTALLATION OF TWO
ADDITIONAL EMERGENCY DIESEL GENERATORS AT THE POINT BEACH NUCLEAR
PLANT (TAC NOS. M87865 AND M87866)

While reviewing your September 24, 1993, submittal of the design summary for
the installation of two additional emergency diesel generators (EDGs) at the
Point Beach Nuclear Plant, the staff has determined that additional
information is required to complete the review.

Your timely response to the enclosed questions is requested for the staff to
complete its review of your September 24, 1993, submittal. Your response will
also be used in staff reviews of subsequent EDG Technical Specification
submittals.

This request for information affects fewer than 10 respondents; therefore, OMB
clearance is not required under Public Law 96-511.

Sincerely,

Original signed by
Richard J. Laufer, Acting Project Manager
Project Directorate III-3
Division of Reactor Projects III/IV
Office of Nuclear Reactor Regulation

Enclosure:

As stated
cc w/enclosure:
See next page

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Mr. Robert E. Link
Wisconsin Electric Power Company

Point Beach Nuclear Plant
Unit Nos. 1 and 2

cc:

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6612 Nuclear Road
Two Rivers, Wisconsin 54241

REQUEST FOR ADDITIONAL INFORMATION FOR EMERGENCY
DIESEL GENERATOR (EDG) PROJECT ADDITION AT
POINT BEACH NUCLEAR POWER PLANT, UNITS 1 AND 2
DOCKET NOS. 50-266 AND 50-301

- 1.0 With regard to the glycol cooling (diesel engine cooling) system, provide the following information:
- a. Discussion of the temperature indications and alarms provided to monitor the high and low jacket water temperatures, and standby low temperature.
 - b. Discussion of the engine water level indications and alarms.
 - c. Discussion of the system operation and control.
 - d. The means provided to assure that the failure of non-essential portions of the system or of other systems not designed to seismic Category I standards and located close to essential portions of the system will not preclude operation of the essential portion of the system.
- 2.0 With regard to the EDG fuel oil storage and transfer system, provide the following information:
- a. You indicated that fuel oil will be supplied to the existing EDGs 2(G01/G02) under all design basis conditions from the new system and that the existing/old system will be isolated from the new system with dual valve isolation. Discuss your plan whether to use the existing/old system as a means to provide additional storage capacity for the EDGs or to use the existing/old system for other purposes (e.g. for auxiliary boilers).

If the existing/old system will be used as a means to provide additional storage capacity for the EDGs, the surveillance and fuel oil testing requirements should apply to both new and existing/old systems to ensure good quality fuel oil for the EDGs.

If the existing/old system will be used for other purposes, discuss the administrative control program to be established to prevent inadvertent operation (open) of the above cited dual system isolation valves.
 - b. You also indicated that cross-ties between day tanks and between fuel oil storage tanks are provided to allow more flexible EDG operations. Provide: drawings/diagrams to show all the system cross-ties and the above cited dual system isolation valves; a detailed description of each mode of system operation; a commitment of the operating procedures to be developed for each mode of the

system operation; and a description of the training plan for the licensed/non-licensed operators.

- c. The means provided to assure that the failure of non-essential portions of the system or of other systems not designed to seismic Category I standards and located close to essential portions of the system will not preclude operation of the essential portion of the system.

3.0 With regard to the EDG starting air systems, provide the following information:

- a. Discussion of the pressure indications and alarms provided to monitor the pressures in the air receivers.
- b. The capacities of the EDG starting air compressors and their associated dryers.
- c. As indicated in the submittal, each air dryer assembly contains two desiccant towers. In general, the dryer operates on an approximate 10 minute cycle. During the first 5 minutes, tower A dries the incoming air and supplies a certain amount of the dry air to tower B to regenerate the desiccant in tower B. If the capacity of the dryer is exceeded, it will become ineffective after several cycles because dry air will not be available to regenerate the desiccant. Discuss the provisions provided to ensure that the capacities of the EDG starting air compressors will not exceed the capacities of their associated dryers.
- d. The means provided to assure that the failure of non-essential portions of the system or of other systems not designed to seismic Category I standards, and located close to essential portions of the system will not preclude operation of the essential portion of the system.

4.0 With regard to the diesel engine lubrication system, discuss the means provided for indicating and monitoring: oil levels, temperatures, and pressures at various points of the system; and the differential pressures across the oil strainers and filters.

5.0 With regard to the heating, ventilation, and air conditioning (HVAC), provide the following information:

- a. Justifications for not providing safety related ventilation to the transfer pumps and day tank rooms.
- b. The means provided to assure that the failure of non-essential portions of the system or of other systems not designed to seismic Category I standards, and located close to essential portions of the

system will not preclude operation of the essential portion of the system.

6.0 With regard to Fire Protection provide the following:

- a. Describe the plant fire protection water supply system (number and type of fire pumps, tanks, capacity, etc.), and verify that the system can supply the maximum demand (sprinklers and hose stations) of the Diesel Generator Building.
- b. Identify the design standard (e.g., NFPA 24) used for the new outside underground piping system and verify that the system meets fire protection program commitments. Provide the maximum spacing between fire hydrants and identify the location and spacing of hose houses.
- c. Identify the standard used for the design and installation of the sprinkler system (e.g., NFPA 13) and verify that the system meets fire protection program commitments.
- d. Identify the standard used for the design and installation of the manual hose stations (e.g., NFPA 15) and verify that the hose station system meets fire protection program commitments. Specify the design pressure and flow rate for the hose stations. State if the 1-1/2 inch hose stations are designed to permit the use of 2-1/2 inch hose.
- e. Identify the standard used for the selection and spacing of portable fire extinguishers to be installed in the Diesel Generator Building (e.g., NFPA 10) and verify that extinguisher types and placements meet fire protection program commitments.