

December 18, 1992

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

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Dear Mr. Link:

SUBJECT: CORRECTION TO AMENDMENT NOS. 136 AND 140 TO FACILITY OPERATING  
LICENSE NOS. DPR-24 AND DPR-27 (TAC NOS. M77619 AND M77620)

On November 23, 1992, the Commission issued Amendment Nos. 136 and 140 to the Facility Operating Licenses for the Point Beach Nuclear Plant, Unit Nos. 1 and 2. The amendments revised the Technical Specifications in response to your application dated September 7, 1990, as supplemented on May 10, 1991 and September 11, 1992.

The amendments revised TS 5.3.7, "Auxiliary Electrical Systems," to incorporate reference to a fifth station battery, and TS 15.4.6, "Emergency Power System Periodic Tests," by changing testing requirements for safety-related station batteries. The amendments are to become effective when the installation of the fifth battery is complete but no later than December 31, 1992.

In revising TS page 15.4.6-2, a change that had been made by Amendments 135 and 139 issued on November 3, 1992, was inadvertently omitted, resulting in deletion of the change from the new revision. Also margin bars were omitted from pages 15.4.6-3 and 15.4.6-4. Corrected pages 15.4.6-2, 15.4.6-3 and 15.4.6-4 are enclosed. Also, in revising TS page 15.3.7-2, your request to delete the words "including Black Plant startup," from the first line of paragraph A.2 was overlooked. That page has now been corrected, and is also enclosed.

Please accept our apologies for the inconvenience these administrative errors has caused you.

Sincerely,

ORIGINAL SIGNED BY:

9212310067 921218  
PDR ADOCK 05000266  
P PDR

Anthony T. Gody, Jr., Project Manager  
Project Directorate III-3  
Division of Reactor Projects III/IV/V  
Office of Nuclear Reactor Regulation

Enclosures:

TS pages 15.4.6-2, 3 and 4  
and 15.3.7-2

cc w/enclosures: See next page

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DOCUMENT NAME:

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*Handwritten signatures and initials:*  
A large signature at the top right.  
A vertical line with initials at the bottom right.

Mr. Robert E. Link  
Wisconsin Electric Power Company

Point Beach Nuclear Plant  
Unit Nos. 1 and 2

cc:

Ernest L. Blake, Jr.  
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Mr. Gregory J. Maxfield, Manager  
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Two Rivers, Wisconsin 54241

3. Each diesel generator shall be given an inspection, at least annually,\* following the manufacturer's recommendations for this class of stand-by service.
4. Each fuel oil transfer pump shall be run monthly.

The above tests will be considered satisfactory if all applicable equipment operates as designed.

#### B. Safety-Related Station Batteries

These surveillance specifications are applicable to all four safety-related station batteries: D05, D06, D105, and D106; and the safety-related station swing battery D305.

1. Every month the voltage of each cell (to the nearest 0.05 volt), the specific gravity and temperature of a pilot cell in each battery and each battery voltage shall be measured and recorded.
2. Every 3 months the specific gravity, the height of electrolyte, and the amount of water added, for each cell, and the temperature of every fifth cell, shall be measured and recorded.
3. At each time data is recorded, new data shall be compared with old to detect signs of abuse or deterioration.
4. Each Safety-Related Station Battery shall be demonstrated OPERABLE:
  - a. At least once per 18 months (SERVICE TEST) by verifying that the battery capacity is adequate to supply and maintain in OPERABLE status all of the actual or simulated emergency loads for the design duty cycle.\*\*
  - b. At least once per 60 months (PERFORMANCE TEST) by verifying that the battery capacity is at least 80% of the manufacturer's rating. This performance discharge test may be performed in lieu of the battery service test.\*\*
  - c. Annual performance discharge tests of battery capacity shall be given to any battery that shows signs of degradation or has

\* The surveillance interval for the 1992 annual inspection of diesel generator G02 may be extended up to 6 months, not to exceed a total time between annual inspections of 18 months.

\*\* Service and Performance testing to begin subsequent to installation of the swing safety-related battery (D-305) which is expected by the end of 1992.

Unit 1 - Amendment No. 2,110,133,136

Unit 2 - Amendment No. 2,113,139,140

15.4.6-2

reached 85% of the service life expected for the application. Degradation is indicated when the battery capacity drops more than 10% of rated capacity from its previous performance test, or is below 90% of the manufacturer's rating. When performance tests are required, they may be performed in lieu of the battery service test.\*\*

### Basis

The tests specified are designed to demonstrate that the diesel generators will provide power for operation of equipment. They also assure that the emergency generator system controls and the control systems for the safeguards equipment will function automatically in the event of a loss of all normal AC station service power.

The testing frequency specified will be often enough to identify and correct any mechanical or electrical deficiency before it can result in a system failure. The fuel supply and starting circuits and controls are continuously monitored and any faults are alarm indicated. An abnormal condition in these systems would be signaled without having to place the diesel generators themselves on test.

Station batteries will deteriorate with time, but precipitous failure is extremely unlikely. The surveillance specified is that which has been demonstrated over the years to provide an indication of a cell becoming unserviceable long before it fails. If a battery cell has deteriorated or if a connection is loose, the voltage under load will drop excessively indicating replacement or maintenance.

A Service Test, performed at least every 18 months, demonstrates adequate battery capacity to supply power to loads required during the most demanding duty cycle. This design duty cycle occurs upon an actuation of safeguards loads in one unit coincident with a loss of off-site power. The design duty cycle is defined further in FSAR, Section 8.2.

A Performance Test will also be conducted at least every 60 months. The Performance Test is a constant discharge rate capacity test which allows comparison with the manufacturer's rating of the battery. This test is the best indicator of the effects of aging on battery capacity. Provisions are made in

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\*\*Service and Performance testing to begin subsequent to installation of the swing safety-related battery (D-305) which is expected by the end of 1992.

these specifications to change the test periodicity to annual when the battery is degraded or when the battery reaches that point in its service life at which capacity degradation with time is accelerated. Operability is satisfactorily demonstrated by achieving a capacity of at least 80% of the manufacturer's rating. Since the Performance Test entirely bounds the battery loads applied during a Service Test, when a Performance Test is conducted, the Service Test for that battery's current test cycle may be omitted.

These surveillance specifications are applicable to all five of the safety-related station batteries: D05, D06, D105, D106, and the swing battery D305.

Reference

FSAR, Section B.2

A.2 Under abnormal conditions, one reactor may be made critical providing the following conditions are met:

- a. One 345 KV transmission line is in service; or the gas turbine is operating.
- b. The 345/13.8 KV and the 13.8/4.16 KV station auxiliary transformers associated with the unit to be taken critical are in service; or the associated 13.8/4.16 KV station auxiliary transformer is in service and the gas turbine is operating.
- c. Reactor power level is limited to 50% rated power until 2 or more transmission lines are restored to service.
- d. 4160 Volt buses A03 and A04 for the unit to be taken critical are energized from their normal supply.
- e. 4160 Volt safeguards buses A05 and A06 for the unit to be taken critical are independently energized from their normal or emergency power supply and both units' A05/A06 bus tie breakers are removed from their cubicles.
- f. 480 Volt safeguards buses B03 and B04 for the unit to be taken critical are independently energized from their normal or emergency power supply and both units' B03/B04 bus tie breakers are open with control power removed.
- g. A fuel supply of 11,000 gallons is available; and both diesel generators are operable.
- h. Four of the five safety-related station batteries and all four of the main DC distribution systems are operable.
- i. Four battery chargers are operable with one charger carrying the DC loads of each main DC distribution bus: D01, D02, D03 and D04.

B.1 During power operation of one or both reactors, the requirements of 15.3.7.A.1 may be modified to allow the following arrangements of systems and components:

- a. If the 345 KV lines are reduced to only one, any operating reactor(s) must be promptly reduced to, and limited to, 50% power. If all 345 KV lines are lost, any operating reactor(s) will be reduced to supplying its auxiliary load, until one or more 345 KV transmission lines are again available.
- b. If both 345/13.8 KV auxiliary transformers are out of service and only the gas turbine is operating, only one reactor will remain operating and it will be limited to 50% power. The second reactor will be placed in the hot shutdown condition.