

April 10, 1996

Mr. M. S. Tuckman
Senior Vice President
Nuclear Generation
Duke Power Company
P. O. Box 1006
Charlotte, NC 28201

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION, CATAWBA NUCLEAR STATION,
UNITS 1 AND 2, MCGUIRE NUCLEAR STATION, UNITS 1 AND 2 -
REMOVAL OF ACCELERATED TESTING AND REPORTING REQUIREMENTS FOR
EMERGENCY DIESEL GENERATORS (TAC NOS. M94276, M94277, M94278,
M94279)

Dear Mr. Tuckman:

By letter dated December 14, 1995, you requested amendments to Facility
Operating Licenses NPF-9, NPF-17, NPF-35, and NPF-52 for McGuire and Catawba
Nuclear Stations, Technical Specifications Section 3/4.8, "Electrical Power
Systems." The changes are being made to incorporate guidance and
recommendations contained in NUREG-1366, "Improvements to Technical
Specifications Surveillance Requirements," Generic Letter (GL) 93-05, "Line-
Item Technical Specifications Improvements to Reduce Surveillance Requirements
for Testing During Power Operations," GL 94-01, "Removal of Accelerated
Testing and Special Reporting Requirements for Emergency Diesel Generators,"
and NUREG-1431, "Revised Standard Technical Specifications for Westinghouse
PWRs."

The NRC staff has identified additional information, as set forth in the
Enclosure, that is necessary for us to continue our review.

Sincerely,

/s/

Herbert N. Berkow, Director
Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

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Docket Nos. 50-413, 50-414, 50-369
and 50-370

Enclosure: Request for Additional Information

cc w/encl: See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

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Sincerely,

A handwritten signature in dark ink, appearing to read "Herbert N. Berkow".

Herbert N. Berkow, Director
Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket Nos. 50-413, 50-414, 50-369
and 50-370

Enclosure: Request for Additional Information

cc w/encl: See next page

Duke Power Company

McGuire Nuclear Station
Catawba Nuclear Station

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McGuire Nuclear Station
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REQUEST FOR ADDITIONAL INFORMATION

ELECTRICAL POWER SYSTEM TECHNICAL SPECIFICATIONS

MCGUIRE, UNITS 1 AND 2

CATAWBA, UNITS 1 AND 2

1. For the full-load rejection test, the new improved Standard Technical Specifications (TS) (NUREG-1431) allows a load range for the EDG between 90 and 100% of the continuous rating while operating at a power factor between 0.8 and 0.9. McGuire has proposed to use the load range between 90 and 100% when performing this test but has neglected to include the recommended power factor. If the McGuire's TS are to be consistent with the NUREG-1431, a power factor of 0.8 to 0.9 must be used during this test. What power factor, if any, will be used during this test?
2. The new Improved Standard TS (NUREG-1431) states that the endurance test for the EDG should demonstrate full-load carrying capability at a power factor between 0.8 and 0.9 for an interval of not less than 24 hours, of which 2 hours are at a load equal to 105 to 110% of the continuous rating of the emergency diesel generator, and 22 hours are at a load equal to 90 to 100% of its continuous rating. McGuire has proposed to use the 90 to 100% load recommended in the NUREG during the 22-hour portion of the test but has neglected to use the recommended power factor of 0.8 to 0.9. If McGuire's TS are to be consistent with NUREG-1431 while performing the endurance test, a power factor of 0.8 to 0.9 must be used. What power factor, if any, will be used during this test?
3. The licensee is proposing to delete the requirement of verifying that the auto-connected loads to each diesel generator do not exceed the 2-hour rating. How is this requirement satisfied (i.e., calculation or testing). Is there a plant document that requires updating this test or calculation as bus loading changes?
4. The licensee is proposing to insert the following statement into the TS Bases:

"Since the McGuire emergency diesel generator manufacturer (Nordberg) is no longer in business, McGuire engineering is the designer of record. Therefore, the term "manufacturer's (or vendor) recommendations" is taken to mean recommendations as determined by McGuire engineering (with specific industry Nordberg input as available) that were intended for nuclear class diesel service taking into account McGuire diesel generator maintenance and operating history and industry experience where applicable."

ENCLOSURE

The staff would expect that the licensee, in the absence of manufacture guidance, would use prudent engineering judgment when conducting testing, preventive, and corrective maintenance on the EDG. However, this does not require the removal of the "manufacturer's recommendations" or "vendors recommendations" from the McGuire TS. It is the staff's opinion that the licensee can accomplish the same thing without the proposed change to the McGuire TS. The staff suggests a modification to the proposed insert, similar to the following:

"Since the McGuire emergency diesel generator manufacturer (Nordberg) is no longer in business, McGuire engineering is the designer of record. Therefore, in the absence of manufacturer recommendations, McGuire engineering will determine what is the appropriate actions required for the nuclear class diesel service taking into account McGuire diesel generator maintenance and operating history and industry experience where applicable."