

January 23, 2002

Mr. M. S. Tuckman
Executive Vice-President
Nuclear Generation
Duke Energy Corporation
PO Box 1006
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SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
MCGUIRE NUCLEAR STATION, UNITS 1 AND 2, AND CATAWBA NUCLEAR
STATION, UNITS 1 AND 2, LICENSE RENEWAL APPLICATION (LRA)

Dear Mr. Tuckman:

By letter dated June 13, 2001, Duke Energy Corporation (Duke) submitted for Nuclear Regulatory Commission (NRC) review an application, pursuant to 10 CFR Part 54, to renew the operating licenses for the McGuire Nuclear Station, Units 1 and 2, and Catawba Nuclear Station, Units 1 and 2. The NRC staff is reviewing the information contained in this license renewal application and has identified, in the enclosure, areas where additional information is needed to complete its review. Specifically, the enclosed request for additional information (RAI) is from the following section(s) of the LRA:

Section 2.2, Plant Level Scoping Results

Please provide a schedule by letter, or electronic mail for the submittal of your response within 30 days of the receipt of this letter. Additionally, the staff would be willing to meet with Duke prior to the submittal of the response to provide clarification of the staff's request for additional information.

Sincerely,

/RA/

Rani L. Franovich, Project Manager
License Renewal and Environmental Impacts Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

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

Enclosures: As stated

cc w/encl: See next page

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Request for Additional Information
McGuire Nuclear Station, Units 1 and 2, and
Catawba Nuclear Station, Units 1 and 2

2.2 Plant Level Scoping Results

- 2.2.1-1 Section 8.1.2 of the McGuire Updated Final Safety Analysis Report (UFSAR) states that "Each unit has two redundant and independent 4160 Volt Essential Auxiliary Power Systems. All of the loads listed in Table 8-1 are supplied power during a blackout or accident condition, are fed from the 4160 Volt Essential Auxiliary Power System, either at 4160 Volts or through transformers at a lower voltage." Table 8-1 of the McGuire UFSAR lists both the control rod drive ventilation fans and the incore instrumentation room air handling units as receiving essential auxiliary power during a blackout. As such, it appears that the control rod drive ventilation (VR) and the incore instrumentation area ventilation (VT) systems are relied upon to be operational during a loss of offsite power event and should be within the scope of license renewal. Table 2.2-3 of the McGuire license renewal application (LRA) lists these systems as "Not within the Scope of License Renewal." Please provide the basis for excluding these systems from the scope of license renewal.
- 2.2.1-2 Table 2.2-3 lists Diesel Building (#7434) as not being within the scope of license renewal. Table 2.2-1 lists the Diesel Generator Buildings as being within the scope of license renewal. It is not clear what the difference between these buildings is. Table 3-1 of the McGuire UFSAR lists the "diesel building" as being a seismically designed category I structure. Similarly Table 3-7 of the UFSAR lists the "diesel building" ventilation system as being safety class 2E. It is not clear whether the UFSAR is referencing the diesel generator buildings in these tables or diesel building (#7434). Please explain the basis for excluding the diesel building (#7434) from the scope of license renewal.
- 2.2.1-3 Section 12.1.2.1 of the McGuire UFSAR states that the Radwaste Facility is shielded by two-foot thick concrete walls. Similarly, the same section indicates that Retired Steam Generator Storage Facility is shielded by 2-½ foot thick concrete walls. These shield walls are necessary because these facilities could contain significant levels of radioactivity. Are these walls necessary to ensure the capability to mitigate the consequences of accidents that could result in potential offsite exposure comparable to those referred to in 10 CFR 50.34(a)(1), 10 CFR 50.67(b)(2), or 10 CFR 100.11? If so, please provide the basis for their exclusion from the scope of license renewal.
- 2.2.1-4 10CFR54.4(a)(3) states that all systems, structures, and components relied on in safety analyses or plant evaluations to perform a function that demonstrates compliance with the Commission's regulations for fire protection (10 CFR 50.48), environmental qualification (10 CFR 50.49), pressurized thermal shock (10 CFR 50.61), anticipated transients without scram (10 CFR 50.62), and station blackout (10 CFR 50.63) are within the scope of license renewal. Table 2.2-3 of the LRA lists the mechanical systems that the applicant has determined are not within the scope of license renewal. This table lists the condensate and condensate storage systems as not within the scope of license renewal. In its February 19, 1992, safety evaluation report on McGuire's response to the Station Blackout Rule, the staff's acceptance of McGuire's response was partially based

on the licensee's statement that adequate water sources were available to provide a four hour coping period. The specific water sources credited include the auxiliary feedwater condensate storage tank, the upper surge tanks, and the condenser hotwell. As such, it appears that the condensate and condensate storage systems should be within the scope of license renewal because they are relied upon during a station blackout event. Please provide the basis for excluding them from the scope of license renewal.

- 2.2.1-5 Table 2.2-4 of the Catawba license renewal application (LRA) states that the Retired Steam Generator Storage Facility is not within the scope of license renewal. However, Section 12.3.2.2 of the Catawba UFSAR states that the Retired Steam Generator Storage Facility is shielded by 2½ thick concrete walls. These shield walls are apparently necessary because this facility could contain significant levels of radioactivity. Are these walls necessary to ensure the capability to mitigate the consequences of a design basis event that could result in potential offsite exposure comparable to those referred to in 10 CFR 50.34(a)(1), 10 CFR 50.67(b)(2), or 10 CFR 100.11? If so, please provide the basis for the exclusion of the Retired Steam Generator Storage Facility from the scope of license renewal.

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Division of Regulatory Improvement Programs
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DATE: January 17, 2002

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF
THE MCGUIRE NUCLEAR STATION, UNITS 1 AND 2, AND CATAWBA
NUCLEAR STATION, UNITS 1 AND 2, LICENSE RENEWAL
APPLICATION

ORIGINATOR: Rani Franovich

SECRETARY: S. Chey

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ADAMS ACCESSION NUMBER: **ML** DATE ENTERED: / /02

FORM 665 ATTACHED and filled out: **YES NO**

COMMITMENT FORM ATTACHED: **YES NO**