

March 6, 2002

LICENSEE : Duke Energy Corporation

FACILITIES: McGuire, Units 1 and 2, and Catawba, Units 1 and 2

SUBJECT: TELECOMMUNICATION WITH DUKE ENERGY CORPORATION TO DISCUSS REQUESTS FOR ADDITIONAL INFORMATION PERTAINING TO THE NRC STAFF'S REVIEW OF SECTION 2.4.2 OF THE LICENSE RENEWAL APPLICATION

On January 28, 2002, the NRC staff (hereafter referred to as "the staff") issued a request for additional information (RAI) pertaining to structures. On February 21, 2002, a conference call was conducted between the NRC and Duke Energy Corporation to discuss information that was being requested by the NRC to complete its review of Section 2.4.2 of the license renewal application (LRA). Participants of the conference call are provided in Attachment 1, and a list of revised RAIs is provided in Attachment 2.

The applicant requested the staff to clarify the following RAIs:

2.4.2-1 Section 2.4.2 of the LRA for both McGuire and Catawba describes the "other structures," which include auxiliary buildings, condenser cooling water intake structure, nuclear service water structures, standby nuclear service water pond dam, standby shutdown facility, turbine building (including service building), unit vent stack, and yard structures. However, the applicant provides only the systems drawings for the LRA but does not provide any structural drawings. The staff reviewed Catawba Updated Final Safety Analysis Report (UFSAR) Figure 1-20 and McGuire UFSAR Figure 2-4; however, the UFSAR figures were either of poor resolution or provided security fence boundaries, which are not useful to the staff in performing license renewal scoping results reviews. Therefore, the staff requests that the applicant provide general structural drawings [i.e., location plans and elevations and/or structural details, such as the Nuclear Steam Supply System (NSSS) supports] for the other structures at Catawba and McGuire.

The applicant provided general arrangement plot plans for Catawba and McGuire to the staff to determine if these drawings would enable the staff to complete its review of Section 2.4.2. The staff determined that the drawings were helpful and should be referenced in the applicant's response to the RAI. Since the drawings contain sensitive information relating to the location of risk-important structures, they will not be attached to the RAI response. The applicant also asked the staff to clarify if location plans and elevations and/or structural details for the other structures at Catawba and McGuire were still needed. The staff responded that the general arrangement plot plans were

sufficient. The applicant asked why drawings of the NSSS supports were requested in RAI 2.4.2-1 and RAI 2.4.2-12. The staff responded that the information pertaining to these structural supports could be provided once in response to RAI 2.4.2-12. As such, RAI 2.4.2-1 is being revised as follows:

Section 2.4.2 of the LRA for both McGuire and Catawba describes the “other structures,” which include auxiliary buildings, condenser cooling water intake structure, nuclear service water structures, standby nuclear service water pond dam, standby shutdown facility, turbine building (including service building), unit vent stack, and yard structures. However, the applicant provides only the systems drawings for the LRA but does not provide any structural drawings. Therefore, the staff requests that the applicant provide general arrangement drawings for the other structures at Catawba and McGuire.

#### 2.4.2-12

Section 2.4.3 of the LRA states that the component supports also include the Class I NSSS supports. The NSSS supports within the scope of license renewal are the reactor coolant system piping supports; pressurizer upper and lower supports; reactor vessel support; control rod drive seismic structure supports; steam generator vertical, lower lateral, and upper supports; and reactor coolant pump lateral and vertical support assemblies. However, the LRA does not provide any information on the support structures, and there is insufficient information in the UFSAR to support the staff’s review. Since each of the NSSS support assemblies are designed entirely different, the staff is unable to verify the components that require an aging management review (AMR). Describe the structures of the NSSS support assemblies that are within the scope of license renewal and subject to an AMR.

The applicant indicated that figures 5-25 through 5-35 (roughly) in the Catawba and McGuire UFSARs provide illustrations of the NSSS supports and requested the staff to review those figures and indicate if they are sufficient to resolve this RAI. The staff has reviewed the UFSAR figures and has determined that they are helpful and that drawings of these supports do not need to be submitted in response to the original RAI 2.4.2-1. However, the staff requests that the applicant provide a narrative description of the license renewal evaluation boundaries for the NSSS supports. As such, RAI 2.4.2-12 is being revised as follows:

Section 2.4.3 of the LRA states that the component supports also include the Class I nuclear steam supply system (NSSS) supports. The NSSS supports within the scope of license renewal are the reactor coolant system piping supports; pressurizer upper and lower supports; reactor vessel support; control rod drive seismic structure supports; steam generator vertical, lower lateral, and upper supports; and reactor coolant pump lateral and vertical support assemblies. However, the LRA does not reflect the evaluation boundaries for NSSS supports, and there is insufficient information in the UFSAR to support the staff’s review. Since each of the NSSS support assemblies are designed entirely differently, the staff is unable to verify the components for which an AMR is required. Please describe the structures of the NSSS support assemblies as

well as the license renewal evaluation boundaries for these assemblies. Provide applicable LRA or UFSAR references for this information.

- 2.4.2-7 Section 2.4.2.3 of the LRA states that the nuclear service water structures at the Catawba plant include several structures. It is not clear that the structures described in the section are the structures within the boundary of the nuclear service water structures for license renewal. Provide a drawing that highlight all the structures that are subject to an AMR and identify which of the components (other than the components specified) listed in Table 3.5-2 of both the LRAs that are applicable to the nuclear service water structures.

The applicant referred the staff to Tables 2.2-1, -2, -3 and -4 in the LRA, which lists those mechanical systems and structures that are excluded from or within the scope of license renewal for both stations. According to Table 2.2-2, all of the structures described in Section 2.4.2.3 of the LRA are within the scope of license renewal. The applicant also explained that the components listed in Table 3.5-2 apply to all the Catawba structures listed as within the scope of license renewal in Table 2.2-2 (and Table 2.2-1 for McGuire) unless otherwise noted. The staff concluded that drawings are not needed to complete the review of this issue. However, a narrative discussion of Tables 2.2-1 through 2.2-4 and an explanation of how the staff should interpret information contained in Section 3.5-2 of the LRA will suffice in the applicant response to this RAI. As such, RAI 2.4.2-7 is being revised as follows:

Section 2.4.2.3 of the LRA states that the nuclear service water structures at the Catawba plant include several structures. It is not clear that the structures described in the section are the structures within the boundary of the nuclear service water structures for license renewal. Please indicate which structures (including the nuclear service water structures) are within the scope of license renewal and subject to an AMR; provide applicable LRA references for this information. Also, please confirm that the components listed in Table 3.5-2 of the LRA are applicable to all structures (including nuclear service water structures) that are within the scope of license renewal unless otherwise noted in the table.

- 2.4.2-11 In Section 2.4.2.8 of the LRA, the applicant describes the yard structures, trenches, and drainage systems for McGuire and Catawba. However, there is no supporting information or document that can be used to verify the content of this section. Provide a drawing for each plant that shows the location of the yard structures and highlight the components that are within the scope of license renewal.

The applicant indicated that the yard structures, trenches and drainage structures are listed in Tables 3.5-2 and 3.5-3 and suggested that a narrative response to this question would be more useful to the staff than drawings. As such, RAI 2.4.2-11 is being revised as follows:

In Section 2.4.2.8 of the LRA, the applicant describes the yard structures, trenches, and drainage structures for McGuire and Catawba. However, there is no supporting information or document that can be used to verify the content of this section. Please describe, for each plant, the yard structures, trenches and drainage structures that are within the scope of license renewal; provide applicable LRA references for this information.

A draft of this telecommunication summary was provided to the applicant to allow them the opportunity to comment prior to the summary being issued.

*/RA/*

Rani L. Franovich, Project Manager  
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Office of Nuclear Reactor Regulation

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

Attachments: As stated

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## List of Revised RAIs

RAI 2.4.2-1 is being revised as follows:

Section 2.4.2 of the license renewal application (LRA) for both McGuire and Catawba describes the “other structures,” which include auxiliary buildings, condenser cooling water intake structure, nuclear service water structures, standby nuclear service water pond dam, standby shutdown facility, turbine building (including service building), unit vent stack, and yard structures. However, the applicant provides only the systems drawings for the LRA but does not provide any structural drawings. Therefore, the staff requests that the applicant provide general arrangement drawings for the other structures at Catawba and McGuire.

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