



**Duke Energy Corporation**

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May 3, 2001

U. S. Nuclear Regulatory Commission  
Document Control Desk  
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Subject: McGuire Nuclear Station, Unit 1  
Docket No. 50-369  
Relief Request No. 01-002

Pursuant to 10CFR50.55a(3)(i), Duke Energy Corporation requests relief from certain ASME Section XI Code requirements as described in the enclosed Relief Request No. 01-002. This enclosure describes a requested alternative that provides an acceptable level of quality and safety.

Relief Request No. 01-002 will be incorporated into the Third 10-Year Interval Inservice Inspection Program Plan for McGuire Nuclear Station, Unit 1. This plan will become effective December 1, 2001. The applicable code edition is the 1995 Edition with 1996 Addenda of the ASME Section XI Code.

There are no identified commitments associated with this relief request.

Please direct questions regarding this request to M. R. Wilder at (704) 382-5826.

Sincerely,

H. B. Barron

Enclosure

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U.S. Nuclear Regulatory Commission  
May 3, 2001  
Page 2 of 2

xc w/enclosure:

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**ENCLOSURE**

**RELIEF REQUEST NO. 01-002**

**Duke Energy Corporation**  
**McGuire Nuclear Station – Unit 1**  
**Third 10-Year Interval Request For Relief No. 01-002**

Pursuant to 10 CFR 50.55a (a) (3) (i), Duke Power Company requests the use of an alternative to the ASME Boiler and Pressure Vessel Code, Section XI, 1995 Edition with the 1996 Addenda (Code).

Specifically, Duke Power Company requests approval to use, as an alternate, an in-process Code change that has been approved by both the ASME Code Committee and the Board on Nuclear Codes and Standards (BNCS). This Code change removes the system hydrostatic test (IWD-5222) requirement listed in the Code Table. A Code change removing this hydrostatic test requirement was incorporated in the 1995 Edition with the 1996 Addenda for Class 1 and Class 2 pressure retaining components, but was not incorporated for Class 3 components.

**I. Systems/Components for Which Alternative is Requested:**

All McGuire Unit 1, Class 3, Category D-B, pressure-retaining components subject to IWD-5222 hydrostatic testing.

**II. Code Requirement:**

Section XI, Table IWD-2500-1, of the ASME Code, 1995 Edition with 1996 Addenda, requires a system leakage test each inspection period for Class 3 pressure retaining components. Additionally, Table IWD-2500-1 requires a system hydrostatic test each inspection interval for these same Class 3 pressure-retaining components.

**III. Code Requirement from Which Alternative is Requested:**

Relief is requested from the mandatory requirement to perform a Class 3 hydrostatic pressure test.

**IV. Basis for Requesting Alternative:**

The Code requires a system leakage test to be performed each inspection period for Class 3 pressure retaining components. This requirement, absent the requirement for hydrostatic pressure testing, provides an acceptable level of quality and safety in accordance with 10 CFR 50.55a(a)(3)(i).

The ASME Code Committee has recognized the error of leaving Class 3 hydro requirements (IWD-5222) in Table IWD-2500-1 for Examination Category D-B

**Duke Energy Corporation  
McGuire Nuclear Station – Unit 1  
Third 10-Year Interval Request For Relief No. 01-002**

(Item Number D2.20). Class 1 and Class 2 pressure retaining components are not required to receive an additional system hydrostatic test.

**V. Alternate Examinations or Testing:**

Duke Energy Corporation requests that the Code change correcting requirements for Class 3 pressure retaining components as listed in Table IWD-2500-1 for Examination Category D-B (Item Number D2.20) be approved as an alternate testing requirement. The Code change has been approved by the ASME Code Committee as ASME Action Item #ISI 00-11, which incorporates Code Case N-498-1 into Table IWD-2500-1. This item also has been approved by the BNCS as Item # BC00-345 on letter ballot BPV 00-6. The current status of this corrected requirement is “awaiting publication” in an upcoming addendum.

**VI. Justification for the Granting of Alternative:**

The ASME Code Committee has recognized the error of leaving Class 3 hydro requirements (IWD-5222) in Table IWD-2500-1 for Examination Category D-B (Item Number D2.20). The ASME Code Committee and the BNCS has approved this Code change, which signifies the adequacy of the existing system leak test requirements. The system leakage test is sufficient to determine the leakage integrity of Class 3 pressure retaining components, at an acceptable level of quality and safety.

**VII. Implementation Schedule:**

McGuire Unit 1 begins the third inspection interval on December 1, 2001. Duke Power Company requests that approval be granted to permit use of this relief at that time.

Sponsored By: Jim Boughman Date: 4/12/01

Approved By: L. Kevin Payne Date: 4/16/01