



**Duke Energy Corporation**

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September 25, 2000

U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001  
ATTENTION: Document Control Desk

SUBJECT: McGuire Nuclear Station Unit 1  
Docket Nos. 50-369  
RAI "Relief Request 99-003"

REFERENCE: Duke Relief Request, dated May 10, 2000  
RAI "Relief Request 99-003", dated September 7, 2000

Duke Energy Corporation (Duke) submitted Relief Request 99-003 and the RAI, dated May 10, 2000 and September 7, 2000, respectively. In followup teleconferences, the NRC staff requested additional information with respect to several issues in the relief request and RAI. This letter supplements the submittal of September 7, 2000. In response to those questions, as listed below, Duke provides the following information.

Question 1:

Page 2, Examination Category B-F identifies the examination volume as being in Figure IWB-2500-8. Which specific figure applies, (a), (b), or (c)?

Answer to question 1:

Figure IWB-2500-8 (c)

Question 2:

Page 4, Examination Category B-D, Note 2 - identifies the part of Code needing relief as the volume in Figure IWB-2500-7(b). Identify the specific paragraph in Code that cannot be performed by the examination.

A047

Answer to question 2:

Table IWB-2500-1, Category B-D defines the examination volume for Class-1 Nozzle Inner Radii. Note 4 states that "The examination volumes shall apply to the applicable Figure shown in Figs. IWB-2500-7(a) through (d)." Figure IWB-2500-7(b) is the applicable examination volume. Relief was requested since coverage of this volume was less than 100% due to the thickness of the nozzle barrel compared to the thickness of the vessel.

Duke used the following criteria for scanning:

1. Calibration and recording criteria are based on ASME Section V, Article 4, 1989 Edition, specifically paragraphs T-441.1 "Equipment Requirements" and T-441.3.2.8.
2. Scanning, including choice of angles and beam directions was based on ASME Section V, Article 5, 1989 Edition, T-541.2.1 and T-541.2.3 (b) which requires scanning in two circumferential directions. The selection of the beam angle is determined by plotting the beam path on a sketch of the nozzle. More than one beam angle is usually necessary to achieve coverage, but different beam angles cover different parts of the examination volume.

Since ASME Section V, Article 4 and 5 do not define the scan direction for nozzle inner radius examinations, Duke used 45 degree, 60 degree and 70 degree angles. Either as a single angle or a combination of angles to cover the examination volume in clockwise and counter-clockwise directions.

Please direct questions on this Response to Norman T. Simms at (704) 875-4685.

Very truly yours,



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MNS Regulatory Compliance File  
McGuire Master File 1.3.2.13