



H. B. Barron  
Vice President

**Duke Energy Corporation**

McGuire Nuclear Station  
12700 Hagers Ferry Road  
Huntersville, NC 28078-9340  
(704) 875-4800 OFFICE  
(704) 875-4809 FAX

April 13, 2001

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555

Subject: McGuire Nuclear Station  
Docket Nos. 50-369 and 50-370  
2001 Updated Final Safety Analysis Report

Attached is one CD-ROM containing one copy of the McGuire 2001 Updated Final Safety Analysis Report. This UFSAR update is provided as required by 10 CFR 50.71(e). The CD-ROM is provided based on the guidance in NRC Regulatory Issue Summary (RIS) 2001-05, "Guidance on Submitting Documents to the NRC by Electronic Information Exchange or on CD-ROM." RIS 2001-05 waives the requirement that licensees receive case-by-case approval required by 10 CFR 50.4(c) for submittal by electronic information exchange (EIE) or by CD-ROM. The RIS also waives requirements that multiple copies of paper or electronic documents be submitted to the NRC.

Also attached is a list of information removed from the UFSAR in this update. This list is provided based on the guidance in NEI 98-03, Revision 1, "Guidelines for Updating Final Safety Analysis Reports." Regulatory Guide 1.181 endorsed this NEI document. Sections A4.1 and A5 in Appendix A of NEI 98-03 indicate that information removed from the UFSAR due to excessive detail, obsolete or redundant information should be reported to the NRC as part of required UFSAR updates. The effective date for this update is October 14, 2000 as indicated at the bottom of each page. The changes are indicated by side bars. The enclosed CD-ROM includes all text, tables and figures in PDF format.

Please contact P.T. Vu at (704) 875-4302 for any questions regarding this submittal.

H. B. Barron

Attachments

A053

U. S. Nuclear Regulatory Commission  
April 13, 2001  
Page 2

xc: (w. Attachments)

L.A. Reyes  
NRC Administrator, Region II

R.E. Martin  
NRC Project Manager

S.M. Shaeffer  
NRC Resident Inspector

R.M. Frye  
Director, NC Division of Radiation Protection

AFFIDAVIT

H. B. Barron, being duly sworn, states that he is Vice President of Duke Energy Corporation; that he is authorized on the part of said corporation to sign and file with the Nuclear Regulatory Commission this Updated Final Safety Analysis Report for McGuire Nuclear Station; and that all statements and matters set forth herein are true and correct to the best of his knowledge.



H. B. Barron, Vice President

Subscribed and sworn to me: April 12, 2001  
Date

Notary Public: Deborah G. Thrap  
Deborah G. Thrap

My Commission Expires: 4/6/2002  
Date

SEAL

bxc: (w/o CD-ROM)

L. Vaughn (EC05O)

L. Burba (EC05O)

R. L. Gill (EC12R)

ELL (EC05O)

J. Glenn (CN01SR)

J. Weast (ON03RC)

McGuire Master File No. 1.3.8

MCGUIRE NUCLEAR STATION  
REPORT OF INFORMATION REMOVED FROM THE UFSAR  
APRIL 2001 UPDATE

1. Removed discussion of performance of Westinghouse part-length control rod drive contained in UFSAR Section 4.2.3.4.2 on the basis that this was obsolete information.
2. Removed UFSAR Figure 4-4 for Westinghouse 17x17 Optimized Fuel Assembly (OFA) Outline on the basis that this was obsolete information.
3. Removed discussion of transition from OFA to Mark-BW fuel contained in UFSAR Section 4.1 on the basis that this was obsolete information.
4. Removed discussion of RCCA spider assembly contained in UFSAR Section 4.2.3.2.1 on the basis that this was obsolete information.
5. Removed discussion of Pyrex Borosilicate Glass design and use contained in UFSAR Section 4.2.3.3.1 on the basis that this was obsolete information.
6. Removed detail on straightness and drag force for Westinghouse fuel assemblies contained in UFSAR Section 4.2.3.4.1 on the basis that this was excessively detailed information.
7. Removed discussion of neutron sources contained in UFSAR Section 4.2.3.2.1 on the basis that this was excessively detailed information.
8. Removed discussion of ejection of burnable poison rod assemblies (BPRA) contained in UFSAR Section 4.2.3.3.1 on the basis that this was excessively detailed information.
9. Removed UFSAR Figures 4-19 for Burnable Poison Rod Cross Section (Pyrex) and 4-21 for Primary Source Assembly on the basis that this was obsolete information.
10. Removed discussion of OFA fuel contained in UFSAR Sections 4.4, 4.4.2.1, 4.4.2.2.1, 4.4.2.2.3, 4.4.2.2.5, 4.4.2.6.1, 4.4.2.6.2, 4.4.2.7.2, 4.4.2.9.1, 4.4.2.9.8, 4.4.4.2.2, 4.4.4.6, Table 4-1, and Table 4-19 on the basis that this was obsolete information.
11. Removed discussion of Standard Fuel Assembly contained in UFSAR Table 4-1 on the basis that this was obsolete information.
12. Removed Thermal and Hydraulic Design Parameter Items 31, 32, 34-36, 37-39, 40-44, 45-48, 49-53, 56, 57, and 58-61 contained in UFSAR Table 4-1 on the basis that this was duplicated in UFSAR Table 4-4.

13. Removed "Burnable Poison Rods" entries associated with B4C BPs contained in UFSAR Table 4-4 on the basis that this was obsolete information.
14. Removed discussion of BWCMV critical heat flux (CHF) correlation contained in UFSAR Sections 4.4.1.1, 4.4.2.2.1, and 4.4.2.2.2 on the basis that this was obsolete information.
15. Removed UFSAR Figures 4-18 for BPRA and 4-78 for Measured Versus Predicted Critical Heat Flux – BWCMV Correlation on the basis that this was obsolete information.
16. Removed discussion of BWFC BPRAs contained in UFSAR Section 4.2.3.2.1 on the basis that this was obsolete information.
17. Removed discussion of BWFC and Westinghouse RCCAs contained in UFSAR Section 4.2.3.2.1 on the basis that this was excessively detailed information.
18. Removed entries applicable to BWFC BPRAs contained in UFSAR Table 4-4 on the basis that this was obsolete information.
19. Removed UFSAR Figure 3-8 for Reactor Coolant Loop Model on the basis that this was duplicated in UFSAR Figure 5-8.
20. Removed reference to the Technical Specifications for allowed moderator temperature coefficient in UFSAR Section 15.3.1.2 on the basis that this was excessively detailed information.
21. Removed statements regarding small values of reactivity coefficients assumed at beginning and end of core lives in UFSAR Section 15.4.2.2 on the basis that this was excessively detailed information.
22. Removed statement regarding increased local power peaking in the area of withdrawn RCCA results in lower minimum DNBR than that for withdrawn bank cases in UFSAR Section 15.4.3.2 on the basis that this information was duplicated in the same UFSAR section.
23. Removed paragraphs 4 and 5 in UFSAR Section 4.3.2.7.5 regarding explanation of Xenon oscillation at BOC in reload cores on the basis that this information was duplicated in UFSAR Section 4.3.2.7.6.
24. Removed B&W LOCA topical report references contained in UFSAR Section 1.6.2 on the basis that this was obsolete information.
25. Removed text regarding BWFC BPRAs contained in UFSAR Section 4.2.3.3.1 on the basis that this was obsolete information.