

Duke Power Company  
McGuire Nuclear Generation Department  
12700 Hagers Ferry Road (MC01A)  
Huntersville, NC 28078-8985

T. C. McMEIKIN  
Vice President  
(704)875-4800  
(704)875-4809 Fax



**DUKE POWER**

October 28, 1992

U.S. Nuclear Regulatory Commission  
Domestic Control Desk  
Washington D.C. 20555

Subject: McGuire Nuclear Station  
Docket Nos. 50-369, 370  
Revision to the Reactor Vessel Material  
Surveillance Program - Withdrawal Schedule and  
Removal of the Schedule for the Withdrawal of  
Reactor Vessel Material Specimens from Technical  
Specifications as prescribed in Generic Letter 91-  
01

Gentlemen:

In the McGuire response dated July 3, 1992 to Generic Letter 92-01, McGuire committed to submitting a new withdrawal schedule for Unit 1 per the recommendations of Surveillance Capsule Report(WCAP-12354) and concurrently requesting the removal of the withdrawal schedule from Technical Specifications per Generic Letter 91-01.

On January 4, 1991, the NRC issued Generic Letter 91-01, "Removal of the Schedule for the Withdrawal of Reactor Vessel Material Specimens from Technical Specifications". This Generic Letter encouraged licensees to submit proposed changes to Technical Specifications(TS) to remove the table that provides the schedule for surveillance specimen withdrawal.

Pursuant to 10 CFR 50.90, please find attached proposed license amendments to facility operating licenses NPF-9 and NPF-17 for McGuire Nuclear Station Units 1 and 2, respectively.

This proposed technical specification revision contains the following proposed changes:

1. Revised Reactor Vessel Material Surveillance Program - Withdrawal Schedule(Table 4.4-5)
2. Removal of the Schedule for the Withdrawal of Reactor Vessel Material Specimens from Technical Specifications in accordance with Generic Letter 91-01.

03008.

9211050288 921028  
PDR ADDCK 05000369  
P PDR

ADDCK 1/

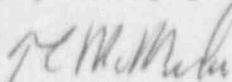
U. S. Nuclear Regulatory Commission  
October 28, 1992  
Page 2

Attachment I provides a technical discussion, no significant hazards analysis, and environmental impact analysis supporting these proposed revisions. The proposed changes to the station TS in the form of pen and ink marked pages are included as Attachment II.

McGuire will include the NRC-approved version of the specimen withdrawal in the 1993 revision of the updated safety analysis report.

Pursuant to 10 CFR 50.91(b)(1), a copy of these amendment requests have been provided to the appropriate North Carolina official.

Very truly yours,



Ted C. McMeekin

adj/r9201

Attachments

U.S. Nuclear Regulatory Commission  
October 28, 1992  
Page 3

xc: W/Attachments

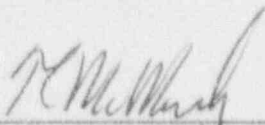
Mr. S. D. Ebnetter, Regional Administrator  
U. S. Nuclear Regulatory Commission, Region 11  
101 Marietta Street, NW - Suite 2900  
Atlanta, Georgia 30323

Mr. T. A. Reed  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Mr. P. K. VanDoorn  
Senior Resident Inspector  
McGuire Nuclear Station

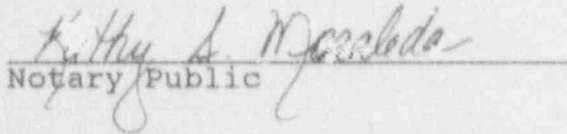
Mr. Dayne Brown, Chief  
Radiation Protection Branch  
Division of Facility Services  
Department of Human Resources  
701 Barbour Drive  
Raleigh, N.C. 27603-2008

Ted C. McMeekin, being duly sworn, states that he is Vice President of Duke Power Company and is authorized on the part of said Company to sign and file with the Nuclear Regulatory Commission this revision to the McGuire Nuclear Station License Nos. NPF-9 and NPF-17, and that all statements and matters set forth therein are true and correct to the best of his knowledge.



Ted C. McMeekin, Site Vice President

Subscribed and sworn to before me this <sup>28th</sup> ~~xxst~~ day of October, 1992

  
Notary Public

My Commission Expires:

December 13, 1993

## Attachment I

### Duke Power Company McGuire Nuclear Station

#### Technical Discussion, No Significant Hazards and Environmental Analysis

#### Technical Discussion

The purpose of the proposed amendment requests for McGuire Nuclear Station are to:

1. Revise the Reactor Vessel Surveillance Program - Withdrawal Schedule (TS Table 4.4-5)
2. Removal of the Schedule for the Withdrawal of Reactor Vessel Material Specimens from TS in accordance with Generic Letter 91-01.

The bases for these changes is provided in the following paragraphs.

#### 1. Revised Capsule Withdrawal Schedule

Table 4.4-5 has been revised to reflect the disposition of capsules for each McGuire unit. Changes made to McGuire Unit 1 surveillance withdrawal schedule are based on the analysis of Capsule X and the recommendations submitted by Westinghouse in WCAP-12354, dated August 1989 which was submitted by Duke to the NRC in a letter dated November 15, 1989.

In addition to the recommended surveillance capsule removal schedule in WCAP-12354, standby Capsule Z will be withdrawn at 7 EFPY and stored. The purpose for storing this capsule is to maintain a versatile surveillance program which will prevent the spare capsule from becoming over irradiated and therefore losing its usefulness. Removing standby Capsule Z at 7 EFPY will give Duke Power the most flexibility because at this time Capsule Z would have experienced 40 years of radiation (32EFPY) and it could be used to obtain additional data at End of Licensed Life, it could be reinserted to obtain additional data at a higher fluence or if needed, it could be heat treated to simulate an annealing process to determine recovery of toughness.

McGuire Unit 2 surveillance withdrawal schedule is based on the analysis of Capsule X and the recommendations submitted by Westinghouse in WCAP-12556, dated April 1990 which was submitted by Duke to the NRC in a letter dated August 30, 1990. The NRC approved version of the Unit 2 surveillance withdrawal schedule was incorporated into TS on



November 15, 1990. There are two differences from the NRC approved version of the Unit 2 surveillances capsule withdrawal schedule, Capsule W will be withdrawn at 9 EFPY instead of 10 EFPY and standby Capsule Y will be withdrawn at 7 EFPY and stored. The purpose for removing capsule W at 9 EFPY instead of 10 is that it would have obtained approximately  $3.16 \text{ n/cm}^2 \times 10^{19}$  fluence, which is the estimated fluence at 60 years of operating life (48 EFPY) which is 1.5 times license life. Capsule Y will be stored for the same reason as Capsule Z in Unit 1.

2. Removal of the Schedule for the Withdrawal of Reactor Vessel Material Specimens from TS in accordance with Generic Letter 91-01.

The removal from TS of the schedule for the withdrawal of reactor vessel material surveillance specimens will not result in any loss of regulatory control because changes to this schedule are controlled by the requirements of Appendix H to 10 CFR Part 50. Also, the NRC-approved version of the specimen withdrawal schedule will be maintained in the Final Safety Analysis Report.

Based on the above discussions, it can be concluded that the proposed changes are justified and will not reduce safety.

No Significant Hazards Analysis

10 CFR 50.91 requires that the following analysis be provided concerning whether the proposed amendment requests involve a significant hazards consideration as defined in 10 CFR 50.92. Standards for determination that an amendment request does not involve a significant hazards consideration are if operation of the facility in accordance with the proposed amendment would not: 1) Involve a significant increase in the probability or consequences of an accident previously evaluated; or, 2) Create the possibility of a new or different kind of accident from any previously evaluated; or, 3) Involve a significant reduction in a margin of safety.

The proposed revision to TS Table 4.4-5 will update the reactor vessel surveillance capsule withdrawal schedule which identifies the disposition of capsules and future capsule withdrawal dates. Updating the capsule removal schedule and subsequently removing it from TS will not involve a significant

increase in the probability or consequences of an accident previously evaluated, nor will it create the possibility of a new or different kind of accident from any previously evaluated, nor will a margin in safety be reduced because this revision complies with ASTM E185-82, "Standard Practice for Conducting Surveillance Test for Light Water Cooled Nuclear Powered Reactor Vessels" which is approved by the NRC as described in 10 CFR 50 Appendix H, "Reactor Vessel Material Surveillance Program Requirements" and Generic Letter 91-01, "Removal of the Schedule for the Withdrawal of Reactor Vessel Material Specimens from Technical Specifications".

As discussed above, we have determined the proposed amendment requests do not involve a significant hazards consideration as defined by 10 CFR 50.92.

#### **Environmental Impact Analysis**

The proposed TS amendments have been reviewed against the criteria of 10 CFR 51.22 for environmental considerations. The proposed amendments do not involve a significant hazards consideration, nor increase the types and amounts of effluents that may be released offsite, nor increase individual or cumulative occupational radiation exposures. Therefore, the proposed TS amendments meet the criteria given in 10 CFR 51.22(c)(9) for a categorical exclusion from the requirement for an Environmental Impact Statement.