

Duke Power Company  
P.O. Box 1006  
Charlotte, NC 28201-1006

M. S. TUCKMAN  
Senior Vice President  
Nuclear Generation  
(704)382-2200 Office  
(704)382-4360 Fax



**DUKE POWER**

December 6, 1993

U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Attention: Document Control Desk

Subject: Catawba Nuclear Station  
Docket Numbers 50-413 and -414  
Technical Specification Change to Reduce Required  
Minimum Measured Reactor Coolant System Flow; Amended  
Submittal

On October 25, 1993, Duke Power submitted a proposed revision to Technical Specifications for McGuire and Catawba Nuclear Stations which sought to: 1) reduce the required minimum measured reactor coolant system flow for McGuire Units 1 and 2 and Catawba Unit 1, and 2) to replace the reference to Figure 2.1-1 in the Limiting Condition for Operation of Technical Specification 2.1.1 (Safety Limits) with a more meaningful safety limit LCO. Because the first part of the requested revision necessitated a change to Figure 2.1-1, it was anticipated that this would be a reasonable opportunity to enhance the Technical Specifications in the second area. However, resource limitations on the part of the NRC staff have required that only changes essential to the upcoming startup of Catawba Unit 1 Cycle 8 be processed at this time. Therefore, Duke was requested to amend the submittal to address only the change to the minimum measured flow, and delete all references to the proposed change to the LCO.

Accordingly, attached is a proposed revision to the Technical Specifications of Catawba Nuclear Station, to reduce the required minimum measured reactor coolant system flow for Unit 1 only from 385,000 gallons per minute to 382,000 gpm. There are two reasons, largely independent of each other, which make this necessary. Degrading steam generator tubes in McGuire Units 1 and 2, and Catawba Unit 1, have necessitated that tubes be plugged or sleeved, which reduces available flow area in the steam generators and consequently reduces flow through the core. In addition, a hot leg temperature streaming phenomenon has affected the ability to accurately measure flow. The steam generators in the affected units are scheduled to be replaced, beginning in 1995. Catawba Unit 2 has not experienced the level or rate of degradation that the other three units have, and this change to reduce required flow

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is not applicable to Catawba Unit 2. There are currently no plans to replace the steam generators in this unit. The flow measurement difficulties caused by the temperature streaming phenomenon will be addressed in a separate submittal.

Approval of this change is requested by the time Catawba Unit 1 begins Cycle 8, currently scheduled for December 24, 1993.

Please note that calibrations to accommodate revised Overpower Delta-T and Overtemperature Delta-T setpoints will be required when the change to reduce minimum measured flow is approved. Therefore, it is requested that the changes be made effective 30 days from the date of issuance; or, for a unit that is shutdown, upon startup.

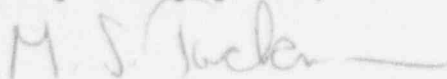
The marked-up Technical Specification pages are contained in Attachment I, a Justification and Safety Analysis in Attachment II, and a "No Significant Hazards" analysis in Attachment III.

Note that when the changes are approved, the Technical Specifications for Catawba Unit 1 will be different from Unit 2 with regard to RCS flow. The page numbers will be differentiated (e. g., 2-A4 for Unit 1 vs. 2-B4 for Unit 2), and the Specifications will be printed on differently colored paper.

This submittal is intended to supercede the October 25, 1993 amendment request as it applies to the Catawba Nuclear Station only; the October 25, 1993 application as docketed for McGuire is unaffected.

If any additional information is required, please call Scott Gewehr at (704) 382-7581.

Very truly yours,

A handwritten signature in dark ink, appearing to read "M. S. Tuckman", followed by a horizontal flourish line.

M. S. Tuckman

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cc: Mr. V. Nerses, Project Manager  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Mail Stop 14H25, OWFN  
Washington, D. C. 20555

Mr. R. E. Martin, Project Manager  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Mail Stop 14H25, OWFN  
Washington, D. C. 20555

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

G. F. Maxwell  
Senior Resident Inspector  
McGuire Nuclear Station

R. J. Freudenberger  
Senior Resident Inspector  
Catawba Nuclear Station

Dayne Brown, Chief  
Radiation Protection Branch  
Division of Facility Services  
Department of Human Services  
701 Barbour Drive  
Raleigh, North Carolina 27603-2008

Heyward G. Shealy, Chief  
Bureau of Radiological Health  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina