

August 18, 2003

Mr. D. M. Jamil  
Vice President  
Catawba Nuclear Station  
Duke Energy Corporation  
4800 Concord Road  
York, SC 29745

SUBJECT: CATAWBA NUCLEAR STATION, UNITS 1 AND 2 RE: REQUEST FOR  
ADDITIONAL INFORMATION (TAC NOS. MB8106, MB8107, MB8109 AND  
MB8110)

Dear Mr. Jamil:

By letter dated March 20, 2003, you submitted an application for amendments of the Technical Specifications (TS) for the Catawba Nuclear Station, Units 1 and 2, (Catawba) to revise the reactor vessel pressure-temperature (P/T) limits in the Catawba TS. The U. S. Nuclear Regulatory Commission technical staff has reviewed the application and has determined that additional information is required, as identified in the Enclosure.

We discussed these issues with your staff on August 6, 2003. Your staff indicated that you would attempt to provide your response by September 15, 2003.

Please contact me at (301) 415-1493, if you have any other questions on these issues.

Sincerely,

*/RA/*

Robert E. Martin, Senior Project Manager, Section 1  
Project Directorate II  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-413 and 50-414

cc w/encl: See next page

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\* see previous concurrence

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DATE	08/9/03	08/03/03	08/8/03	08/12/03

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REQUEST FOR ADDITIONAL INFORMATION

DUKE POWER COMPANY

CATAWBA NUCLEAR STATION, UNITS 1 AND 2

DOCKET NOS. 50-413 AND 50-414

The Nuclear Regulatory Commission (NRC) staff has reviewed the licensee's submittal dated March 20, 2003, regarding proposed changes to the low temperature overpressure (LTOP) Technical Specifications (TS). The NRC staff has identified the following information that is needed to enable the continuation of its review.

1. Catawba, Units 1 and 2 and McGuire, Units 1 and 2 are similarly designed plants and the current LTOP TS are very similar for both stations. The proposed changes to the Catawba LTOP TS would result in differences from the McGuire LTOP TS. Identify in detail the bases for proposing a different TS format and content for the two plants' LTOP TS.
2. The Westinghouse Improved Standard Technical Specifications (ISTS), NUREG 1431, "Standard Technical Specifications, Westinghouse Plants," Revision 2, LTOP TS, Action Item A, provides a limit of 15 minutes for a condition of two charging pumps capable of injecting into the reactor coolant system (RCS) during pump swap operations. The proposed TS would allow any two pumps, either charging pumps or safety injection pumps, or any combination of two pumps with maximum flow to inject into the RCS indefinitely. This represents a deviation from the ISTS. Justify in detail why it is acceptable for two pumps in this configuration to run for a long duration and the impact of this proposed configuration on the peak pressure analyses. Also provide a discussion regarding your analysis and its termination period.
3. WCAP 14040, Revision 2, "Methodology Used to Develop Cold Overpressure Mitigating System Setpoints and RCS Heatup and Cooldown Limit Curves," Westinghouse Electric Company, LLC dated January 1996, provides the methodology for pressure transient analyses using pressurizer power operated relief valves (PORVs) only. Describe and justify the method that was used to analyze the residual heat removal (RHR) suction relief valves as pressure relieving devices in this proposal. Identify any conservatism in the pressure transient analyses.
4. Attachment 2, Page 2-10, discusses the PORV and RHR suction relief valves setpoints and the respective peak pressures and pressure-temperature (P/T) limits. In your analyses, if the upper limit is used for the PORV (425 pounds per square inch gauge (psig)) and the RHR suction relief valves (509 psig), what is the impact on the peak pressure calculation? Provide two separate tables identifying the following parameters for the PORV and RHR suction relief valves for heatup and cooldown limiting cases for both units. The tables should reflect the enable temperature range versus the PORV setpoint, the uncertainty, the transient pressure, the peak pressure and P/T limit from the revised P/T curves. Also provide the details of limitations on operation of the reactor

coolant pump when the LTOP system is in service based on the revised heatup and cooldown curves for both Catawba units.

5. The Updated Final Safety Analysis Report Section 5.2.2 provides only a general discussion regarding the LTOP system. It does not provide any information regarding mass input and heat input transient analyses. Provide a detailed discussion of the mass input and heat input transient analyses, including the results of the analyses and the computer code used.
6. Clarify whether the term "RCS relief valves" in TS 3.4.12 means "RHR suction relief valves."

Catawba Nuclear Station

cc:

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