

September 17, 2003

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

SUBJECT: CATAWBA NUCLEAR STATION, UNITS 1 AND 2 - REQUEST FOR  
ADDITIONAL INFORMATION RESULTING FROM LICENSEE LETTER DATED  
JULY 30, 2003 (TAC NOS. MB7842 AND MB7843)

By letter dated July 30, 2003, you responded to our letter dated July 21, 2003, regarding the appropriate safety factor for bending loads. Enclosed is a request for additional information (RAI) based on our review of your July 30, 2003, letter. Larry Rudy of your staff has informed me that your response to this RAI should be provided by October 15, 2003. Please contact me at (301) 415-1419, if you have any further questions on this matter.

Sincerely,

*/RA/*

Leonard N. Olshan, Project Manager, Section 1  
Project Directorate II  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-413 and 50-414

Enclosure: As stated

cc w/encl: See next page

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DATE	9/11/2003	9/11/2003	9/16/2003

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## REQUEST FOR ADDITIONAL INFORMATION

### CATAWBA UNITS 1 AND 2

#### TECHNICAL SPECIFICATION AMENDMENT - STEAM GENERATORS

The licensee's letter dated July 30, 2003, proposed, in part, the following technical specification wording related to the structural integrity performance criteria:

".... Apart from the above requirements, additional loading conditions associated with the design basis accidents, or combination of accidents in accordance with the design and licensing basis, shall also be evaluated to determine if the associated loads contribute significantly to burst. In the assessment of tube integrity, those loads that significantly affect burst shall be determined and assessed in combination with the loads due to primary to secondary pressure differential using safety factors that are consistent with the licensing basis design criteria."

Following are questions related to this wording:

1. For design basis accident loadings, please discuss whether any loads other than differential pressure loads (i.e., primary membrane (other than from pressure), primary bending, differential thermal) contribute significantly to burst. In addition, please provide a summary of the methodology used to determine whether loads other than differential pressure contribute significantly to burst.
2. For those loads that significantly contribute to burst, if any, please discuss how they were assessed in combination with the loads due to primary to secondary pressure differential.
3. In the event of off-normal conditions, it is possible that loads once determined to be non-contributing will subsequently be determined to be contributing loads. As a result, please provide the safety factors that are consistent with the licensing basis design criteria for loads other than differential pressure. In addition, discuss how these loads (and safety factors) will be combined with the loads due to primary to secondary differential pressure. Include in this discussion, the technical basis for these safety factors and clarify what constitutes the "licensing basis design criteria" for the steam generator tubes.

Enclosure

Catawba Nuclear Station

cc:

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