

Duke Power Company  
Catawba Nuclear Generation Department  
4100 Concord Road  
York, SC 29745

W.S. TUCKMAN  
Vice President  
(803)831-3205 Office  
(803)831-3426 FAX



DUKE POWER

November 4, 1992

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Subject: Catawba Nuclear Station, Unit 1  
Docket No: 50-413  
Supplement to TS Amendment Request  
C1C7 Reload

M. S. Tuckman's letter dated April 13, 1992 submitted changes to the Catawba Unit 1 Technical Specifications which were required for Cycle 7 operation. This amendment request was supplemented on August 26, 1992 with revisions of an editorial nature.

Attachment 1 to the April 13, 1992 submittal contains the Catawba Unit 1 Cycle 7 (C1C7) Reload Report. Section 7, "Accident Analysis", of this Reload Report contains a description of the accidents which were evaluated for cycle 7 operation. Section 7 indicates that, for the events listed, a single set of generic analysis were performed for these events, and that the results for Catawba were the same as those submitted in the approved McGuire 2 Cycle 8 reload report.

Because of a leaking fuel assembly found during the End of Cycle 6 refueling outage, the C1C7 core was redesigned, resulting in a more severe core power distribution with respect to Steam Line Break (SLB). Steam Line Break was reanalyzed with the more limiting power distribution using the methodology given in DPC-NE-3001-PA, "Multidimensional Reactor Transients and Safety Analysis Physics Parameters Methodology" with the minor modifications given in the approved McGuire 2 Cycle 8 reload submittal (Catawba 1 Cycle 7 Reload Report, reference 17). The system thermal hydraulic response of the SLB event has not been reanalyzed, and the DNBR reanalysis calculates a decrease in the minimum DNBR due to the more severe power distribution. However, the calculated minimum DNBR for the C1C7 SLB analysis is still greater than the limit value of 1.45 given in DPC-NE-3001-PA, which demonstrates that the

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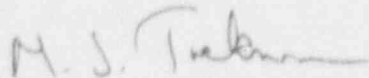
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U. S. Nuclear Regulatory Commission  
November 4, 1992  
Page 2

SLB event meets all acceptance criteria. The increase in the severity of the power distribution causes a 4.6% decrease in DNBR margin. The reanalysis of the SLB event requires no Technical Specification changes and no FSAR changes.

Very truly yours,



M. S. Tuckman

MHH/SLB.SUP

U. S. Nuclear Regulatory Commission  
November 4, 1992  
Page 3

xc: (w/Attachment)

Mr. S. D. Ebnetter  
Regional Administrator, Region II

Mr. Heywood Shealy, Chief  
Bureau of Radiological Health  
South Carolina Department of Health

Mr. Robert E. Martin, Project Manager

Mr. W. T. Orders  
NRC Senior Resident Inspector

American Nuclear Insurers  
c/c Dottie Sherman, ANI Library  
The Exchange, Suite 245  
270 Farmington Avenue  
Farmington, CT 06032

K&M Nuclear Consultants  
1221 Avenue of the Americas  
New York, New York 10020

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1100 Circle 75 Parkway  
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