



**Nebraska Public Power District**  
*Nebraska's Energy Leader*

NLS2000114  
December 28, 2000

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555-0001

Gentlemen:

Subject: Reporting of Changes and Errors in ECCS Evaluation Models  
Cooper Nuclear Station  
NRC Docket 50-298, DPR-46

In accordance with 10 CFR 50.46(a)(3)(ii), the Nebraska Public Power District (District) is herein reporting the impact of changes and errors in the evaluation model used by General Electric (GE) to demonstrate compliance with the Emergency Core Cooling System (ECCS) requirements of 10 CFR 50.46. During a Boiling Water Reactor Owners Group audit of General Electric Nuclear Energy's SAFER LOCA analysis process and methodology a concern was raised with respect to the impact of time step size on LOCA calculations performed with SAFER04V. In response to this concern an evaluation was performed to obtain the time step sizes that result in acceptable numerical convergence of the peak cladding temperature calculation. Based on the results of this evaluation, smaller hydraulic and conduction time step sizes were recommended in the SAFER analysis. Accordingly, this report is being submitted to report a decrease of 5 degrees Fahrenheit in the calculated peak cladding temperature for one of the fuel types in use at Cooper Nuclear Station (CNS) using the SAFER/GESTR-LOCA model described in NEDE-23785-1-PA Revision 1, "The GESTR-LOCA and SAFER Models for the Evaluation of the Loss-of-Coolant Accident." Specifically there is a decrease of 5 degrees Fahrenheit for GE-9B fuel and no change for GE-14 fuel. The cumulative change to the CNS SAFER/GESTR-LOCA analysis results is 10 degrees Fahrenheit for the GE-9B fuel and zero degrees Fahrenheit for the GE14 fuel.

Should you have any questions concerning this matter, please contact Jerry Lewis at (402) 825-5770.

Sincerely,

John H. Swailes  
Vice President of Nuclear Energy

JHS/cb

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cc: Regional Administrator  
USNRC - Region IV

Senior Project Manager  
USNRC - NRR Project Directorate IV-1

Senior Resident Inspector  
USNRC

NPG Distribution

Records

ATTACHMENT 3 LIST OF NRC COMMITMENTS
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Correspondence Number: NLS2000114

The following table identifies those actions committed to by the District in this document. Any other actions discussed in the submittal represent intended or planned actions by the District. They are described to the NRC for the NRC's information and are not regulatory commitments. Please notify the NL&S Manager at Cooper Nuclear Station of any questions regarding this document or any associated regulatory commitments.

COMMITMENT	COMMITTED DATE OR OUTAGE
None	