



444 South 16th Street Mall
Omaha NE 68102-2247

April 12, 2006
LIC-06-0044

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

- References:**
1. Docket 50-285
 2. XN-NF-82-49(P)(A), Supplement 1, "Exxon Nuclear Company Evaluation Model Revised EXEM PWR Small Break Model," Revision 1, December 1994
 3. EMF-2087(P)(A), "SEM/PWR-98: ECCS Evaluation Model for PWR LBLOCA Applications," Revision 0, June 1999
 4. Letter from OPPD (R. L. Phelps) to NRC (Document Control Desk), "Annual Report for 2004 Loss of Coolant Accident (LOCA)/Emergency Core Cooling System (ECCS) Models Pursuant to 10 CFR 50.46," dated April 22, 2005 (LIC-05-0045)

Subject: Annual Report for 2005 Loss of Coolant Accident (LOCA)/Emergency Core Cooling System (ECCS) Models Pursuant to 10 CFR 50.46

In accordance with 10 CFR 50(46)(a)(3)(ii), the Omaha Public Power District (OPPD) is submitting the annual 10 CFR 50.46 summary report for 2005. This summary report updates all identified changes or errors in the LOCA/ECCS codes, methods, and applications used by AREVA (formerly Framatome ANP) to model Fort Calhoun Station, Unit No. 1 (FCS). References 2 and 3, respectively, describe the Small Break (SB) and Large Break (LB) LOCA analysis methodology used by AREVA for the FCS Analysis of Record.

OPPD has received the 2005 AREVA 10 CFR 50.46 Annual Notification Report for the SB and LB LOCA Analyses that are subject to the reporting requirements of 10 CFR 50.46. For 2005, there were no SB or LB LOCA Analysis Peak Clad Temperature (PCT) 10 CFR 50.46 Model Assessment errors.

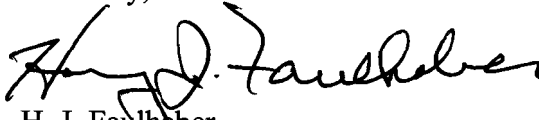
Attachment 1 provides the 2005 SB LOCA PCT Margin Utilization Summary for FCS, which is unchanged from the 2004 Annual Report (Reference 4). The value of the PCT remains at 1864°F.

Attachment 2 provides the 2005 LB LOCA PCT Margin Utilization Summary for FCS, which is unchanged from the 2004 Annual Report (Reference 4). The value of the PCT remains at 1954°F.

In summary, the FCS PCT values for SB and LB LOCA remain less than the 10 CFR 50.46(b) (1) acceptance criteria of 2200°F.

If you should have any questions, please contact Tom Matthews at (402) 533-6938. No commitments are made to the NRC in this letter.

Sincerely,

A handwritten signature in black ink, appearing to read "H. J. Faulhaber", written over the printed name.

H. J. Faulhaber

Division Manager

Nuclear Engineering

Attachments:

1. FCS Small Break LOCA PCT Margin Utilization Summary
2. FCS Large Break LOCA PCT Margin Utilization Summary

**Fort Calhoun Station Small Break LOCA
2005 Peak Clad Temperature Margin Utilization Summary**

LICENSING BASIS		<u>Clad Temperature (°F)</u>
Analysis of Record		1865
MARGIN ALLOCATIONS (ΔPCT)		
A.	Prior Permanent ECCS Model Assessments	-1
B.	2005 10 CFR 50.46 Model Assessments (Permanent Assessments of PCT Margin)	0
LICENSING BASIS PCT + MARGIN ALLOCATIONS		1864

**Fort Calhoun Station Large Break LOCA
2005 Peak Clad Temperature Margin Utilization Summary**

LICENSING BASIS		<u>Clad Temperature (°F)</u>
Analysis of Record		1956
MARGIN ALLOCATIONS (ΔPCT)		
A.	Prior Permanent ECCS Model Assessments	-2
B.	2005 10 CFR 50.46 Model Assessments (Permanent Assessments of PCT Margin)	0
LICENSING BASIS PCT + MARGIN ALLOCATIONS		1954