



Nebraska Public Power District

Always there when you need us

NLS2012004
January 9, 2012

50.46(a)(3)(ii)

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

Subject: Annual Report of Changes and Errors in Emergency Core Cooling System
Evaluation Models for 2011
Cooper Nuclear Station, Docket No. 50-298, DPR-46

- References:**
1. Letter from David Van Der Kamp, Nebraska Public Power District, to U.S. Nuclear Regulatory Commission, dated August 18, 2008, "Failure to Include Error in Emergency Core Cooling System Evaluation Model in Annual Report for 2006"
 2. Letter from David Van Der Kamp, Nebraska Public Power District, to U.S. Nuclear Regulatory Commission, dated September 21, 2011, "10 CFR 50.46(a)(3)(ii) Report"

Dear Sir or Madam:

The purpose of this letter is to submit the 2011 annual report of changes or errors in the Emergency Core Cooling System (ECCS) Evaluation Models pursuant to 10 CFR 50.46(a)(3)(ii) for Cooper Nuclear Station (CNS).

By reference letters 1 and 2, Nebraska Public Power District previously reported errors in the ECCS evaluation model. These errors apply to the ECCS evaluation methodology for 2011 and have a cumulative impact of 130°F on the Peak Cladding Temperature (PCT). These changes are itemized in the attachment to this letter and increase the PCT from 2040°F to 2170°F. CNS continues to comply with the PCT limit of 2200°F specified in 10 CFR 50.46(b)(1).

No other changes or errors in the ECCS evaluation model were identified in 2011.

If you have any questions regarding this report, please contact Kent Sutton, Nuclear Engineering Department Manager, at (402) 825-5105.

Sincerely,

David W. Van Der Kamp
Licensing Manager

A002
NRR

/lb

Attachment

cc: Regional Administrator w/attachment
USNRC - Region IV

Cooper Project Manager w/attachment
USNRC - NRR Project Directorate IV-1

Senior Resident Inspector w/attachment
USNRC - CNS

NPG Distribution w/attachment

CNS Records w/attachment

Errors in Emergency Core Cooling System Evaluation Model for 2011
Nebraska Public Power District
Cooper Nuclear Station

GE Hitachi 10 CFR 50.46 Error Notification	Date	Subject	PCT Impact (°F)
2006-01	7/28/06	Impact of Top Peaked Power Shape for Small Break Loss of Coolant Accident Analysis	0°F
2011-02	9/2/11	Impact of Database Error for Heat Deposition on the Peak Cladding Temperature (PCT) for 10x10 Fuel Bundles	35°F
2011-03	9/2/11	Impact of Updated Formulation for Gamma Heat Deposition to Channel Wall for 9x9 and 10x10 Fuel Bundles	95°F
			Total = 130°F

PCT at beginning of 2011 = 2040°F

PCT at end of 2011 = 2170°F

Correspondence Number: NLS2012004

The following table identifies those actions committed to by Nebraska Public Power District (NPPD) in this document. Any other actions discussed in the submittal represent intended or planned actions by NPPD. They are described for information only and are not regulatory commitments. Please notify the Licensing Manager at Cooper Nuclear Station of any questions regarding this document or any associated regulatory commitments.

COMMITMENT	COMMITMENT NUMBER	COMMITTED DATE OR OUTAGE
None		