



June 21, 2006

10 CFR 50.46

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Palisades Nuclear Plant
Docket 50-255
License No. DPR-20

Annual Report of Changes in Emergency Core Cooling System Models

Nuclear Management Company, LLC (NMC), is submitting the annual report of changes in the emergency core cooling system (ECCS) models for the Palisades Nuclear Plant. The report is submitted in accordance with 10 CFR 50.46(a)(3)(ii).

There was a significant temperature change (greater than 50 degrees) subsequent to November 14, 2005, for the large break loss of coolant accident (LBLOCA). A 30-day report was submitted on March 14, 2006, as required. Enclosure 1 contains the LBLOCA peak cladding temperature summary. There was a slight peak cladding temperature change (-2 degrees) for the small break loss of coolant accident (SBLOCA) subsequent to November 14, 2005. Enclosure 2 contains the SBLOCA peak cladding temperature summary. This report covers the period from November 15, 2005, through June 21, 2006.

Summary of Commitments

This letter contains no new commitments and no revisions to existing commitments.

A handwritten signature in black ink, appearing to read "Paul A. Harden", is written over a horizontal line.

Paul A. Harden
Site Vice President, Palisades Nuclear Plant
Nuclear Management Company, LLC

Enclosures (2)

CC Administrator, Region III, USNRC
Project Manager, Palisades, USNRC
Resident Inspector, Palisades, USNRC

**ENCLOSURE 1
LARGE BREAK LOSS OF COOLANT ACCIDENT
PEAK CLADDING TEMPERATURE SUMMARY**

	Δ PCT (°F)	PCT (°F)
PCT (Last Acceptable Model Results)		1929
10 CFR 50.46 Changes		
CR 9266 Error In Break Loop SG Exit Junction Inertia	+1	
CR 9429 Error In Fast Flux Input To RODEX2	+4	
PCT (2001 Annual Report)		1934
10 CFR 50.46 Changes		
CR 9156 Error In TOODEE2 Clad Thermal Expansion	-1	
CR 8674 RFPAC V&V Findings From CDUP	+28	
PCT (2002 Annual Report)		1961
PCT (2003 Annual Report)		1961
PCT (2004 Annual Report)		1961
PCT (2005 Annual Report)		1961
10 CFR 50.46 Changes		
CR 2005-4791 Large Break LOCA Containment Heat Sink Modeling Inputs	-5	1956
CR 2006-585 Incorrect ICECON Heat Structure Input for Palisades Appendix K LBLOCA	-41	1915
PCT (2006 Annual Report)		1915

**ENCLOSURE 2
SMALL BREAK LOSS OF COOLANT ACCIDENT
PEAK CLADDING TEMPERATURE SUMMARY**

	Δ PCT (°F)	PCT (°F)
PCT (Last Acceptable Model Results)		1465
PCT (2003 Annual Report)		1465
PCT (2004 Annual Report)		1465
PCT (2005 Annual Report)		1465
10 CFR 50.46 Changes		
CR 2006-1178-FA SBLOCA Core Exit Modeling	-2	1463
PCT (2006 Annual Report)		1463