



Entergy Nuclear Operations, Inc.
Palisades Nuclear Plant
27780 Blue Star Memorial Highway
Covert, MI 49043

June 14, 2007

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

Dear Sir or Madam:

Entergy Nuclear Operations, Inc., 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).

Enclosure 1 contains the large break loss of coolant accident peak cladding temperature summary. Enclosure 2 contains the small break loss of coolant accident peak cladding temperature summary. This report covers the period from June 21, 2006, through June 20, 2007.

Summary of Commitments

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

A handwritten signature in black ink, appearing to read "C. Schwarz".

Christopher J. Schwarz
Site Vice President
Palisades Nuclear Plant

Enclosures (2)

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

A002

NRB

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

	ΔPCT (°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
PCT (2007 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
PCT (2007 Annual Report)		1463