



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**

	$\Delta$ PCT (°F)	PCT (°F)
<b>PCT (Last Acceptable Model Results)</b>		<b>1929</b>
<b>10 CFR 50.46 Changes</b>		
CR 9266 Error In Break Loop SG Exit Junction Inertia	+1	
CR 9429 Error In Fast Flux Input To RODEX2	+4	
<b>PCT (2001 Annual Report)</b>		<b>1934</b>
<b>10 CFR 50.46 Changes</b>		
CR 9156 Error In TOODEE2 Clad Thermal Expansion	-1	
CR 8674 RFPAC V&V Findings From CDUP	+28	
<b>PCT (2002 Annual Report)</b>		<b>1961</b>
<b>PCT (2003 Annual Report)</b>		<b>1961</b>
<b>PCT (2004 Annual Report)</b>		<b>1961</b>
<b>PCT (2005 Annual Report)</b>		<b>1961</b>
<b>10 CFR 50.46 Changes</b>		
CR 2005-4791 Large Break LOCA Containment Heat Sink Modeling Inputs	-5	<b>1956</b>
CR 2006-585 Incorrect ICECON Heat Structure Input for Palisades Appendix K LBLOCA	-41	<b>1915</b>
<b>PCT (2006 Annual Report)</b>		<b>1915</b>
<b>PCT (2007 Annual Report)</b>		<b>1915</b>

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

	$\Delta$ PCT (°F)	PCT (°F)
<b>PCT (Last Acceptable Model Results)</b>		<b>1465</b>
<b>PCT (2003 Annual Report)</b>		<b>1465</b>
<b>PCT (2004 Annual Report)</b>		<b>1465</b>
<b>PCT (2005 Annual Report)</b>		<b>1465</b>
<b>10 CFR 50.46 Changes</b>		
CR 2006-1178-FA SBLOCA Core Exit Modeling	-2	<b>1463</b>
<b>PCT (2006 Annual Report)</b>		<b>1463</b>
<b>PCT (2007 Annual Report)</b>		<b>1463</b>