

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

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PNP 2011-047

May 17, 2011

10 CFR 50.46

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

Subject:

Annual Report of Changes in Emergency Core Cooling System Models for

Large and Small Break LOCA

Palisades Nuclear Plant

Docket 50-255

License No. DPR-20

Dear Sir or Madam:

Entergy Nuclear Operations, Inc. (ENO) is submitting the annual report of changes in the emergency core cooling system (ECCS) models for the Palisades Nuclear Plant (PNP). The report is submitted in accordance with 10 CFR 50.46(a)(3)(ii).

Attachment 1 contains the large break loss of coolant accident (LOCA) peak clad temperature (PCT) summary. Attachment 2 contains the small break LOCA PCT summary. There have been no changes to either the small or large break LOCA PCT summary since the previous annual report. This report covers the period from May 20, 2010, through May 17, 2011.

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

Sincerely,
Thomas Kuwu

tpk/bed

Attachment 1: Large Break Loss of Coolant Accident Peak Cladding Temp. Summary Attachment 2: Small Break Loss of Coolant Accident Peak Cladding Temp. Summary

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

ATTACHMENT 1 LARGE BREAK LOSS OF COOLANT ACCIDENT PEAK CLADDING TEMPERATURE SUMMARY

	∆PCT (°F)	PCT (°F)
PCT (Last Acceptable Model Results) New Cycle 21 Analysis		1740
10 CFR 50.46 Changes		
CR 2009-337 S-RELAP5 Radiation to Fluid Correlation Under Predicts the Radiative Heat Transfer	-27	1713
PCT (2009 Annual Report)		1713
10 CFR 50.46 Changes		
CR 2009-2309 S-RELAP5 Kinetics and Heat Conduction Model	-22	1691
PCT (2010 Annual Report)		1691
PCT (2011 Annual Report)		1691

ATTACHMENT 2 SMALL BREAK LOSS OF COOLANT ACCIDENT PEAK CLADDING TEMPERATURE SUMMARY

	ΔPCT (°F)	PCT (°F)
PCT (Last Acceptable Model Results) New Cycle 21 Analysis		1734
10 CFR 50.46 Changes		
CR 2009-337 S-RELAP5 Radiation to Fluid Correlation Under Predicts the Radiative Heat Transfer	-64	
PCT (2009 Annual Report)		1670
10 CFR 50.46 Changes		
CR 2009-2309 S-RELAP5 Kinetics Model	+4	
PCT (2009 30-Day Report)		1674
PCT (2010 Annual Report)		1674
PCT (2011 Annual Report)		1674