



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

September 1, 2010

Mr. Christopher J. Schwarz  
Vice President, Operations  
Entergy Nuclear Operations, Inc.  
Palisades Nuclear Plant  
27780 Blue Star Memorial Highway  
Covert, MI 49043-9530

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
PALISADES NUCLEAR PLANT**

Dear Mr. Schwarz:

On August 5, 2010, the NRC staff completed its performance review of Palisades Nuclear Plant. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2009, through June 30, 2010. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only--Security Information" will include the Security Cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at Palisades Nuclear Plant was within the Regulatory Response column of the NRC's Action Matrix based on one inspection finding in the Initiating Events Cornerstone, from the fourth quarter of 2009, which involved degradation of the neutron absorption capability of the Spent Fuel Pool plates. Therefore, we plan to conduct a supplemental inspection (95001) in response to the White finding in the Initiating Events Cornerstone. By letter dated July 6, 2010, you notified us of your readiness to conduct this supplemental inspection. We are currently working with your staff to schedule this inspection. This supplemental inspection is in addition to Reactor Oversight Process (ROP) baseline inspections at your facility.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2011. We also plan on performing several special and infrequently performed inspections that include: Inspection Procedure (IP) 92709, "Licensee Strike Contingency Plans"; IP 71003, "Post-Approval Site Inspection for License Renewal," (Phase 1 and 2); IP 92702, "Follow up on Traditional Enforcement Actions, Including Violations, Deviations, Confirmatory Orders, and Alternative Dispute Resolution Confirmatory Action Letters"; and IP 60855.1, "Operation of an Independent Spent Fuel Storage Installation at

Operating Plants.” The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last 9 months of the inspection plan are tentative and may be revised at the end-of-cycle review.

In accordance with 10 CFR 2.390 of the NRC’s “Rules of Practice,” a copy of this letter and its enclosure will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC’s document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

If circumstances arise which cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact Robert J. Orlikowski at 630-829-9753 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

Steven West, Director  
Division of Reactor Projects

Docket No. 50-255; 72-007  
License No. DPR-20

Enclosure: Palisades Inspection/Activity Plan

cc w/encl: Distribution via ListServ

**Palisades**  
**Inspection / Activity Plan**  
**09/01/2010 - 12/31/2011**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>ADR - CONFIRMATORY ORDER FOR ADR</b>		<b>1</b>
05/10/2010	12/10/2010	IP 92702	Followup On Corrective Actions For Violations And Deviations	
		<b>BI ENG - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>5</b>
08/16/2010	09/03/2010	IP 7111105T	Fire Protection [Triennial]	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
08/30/2010	09/03/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
08/30/2010	09/03/2010	IP 71124.02	Occupational ALARA Planning and Controls	
08/30/2010	09/03/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
08/30/2010	09/03/2010	IP 71124.04	Occupational Dose Assessment	
08/30/2010	09/03/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
		<b>BI ENG - INSERVICE INSPECTION</b>		<b>1</b>
10/04/2010	10/29/2010	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
10/04/2010	10/29/2010	IP 7111108P	Inservice Inspection Activities - PWR	
		<b>RENEWAL - LICENSE RENEWAL 71003 - PHASE 1</b>		<b>2</b>
10/04/2010	10/29/2010	IP 71003	Post-Approval Site Inspection for License Renewal	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
10/04/2010	10/08/2010	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
10/04/2010	10/08/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
10/04/2010	10/08/2010	IP 71124.02	Occupational ALARA Planning and Controls	
		<b>RENEWAL - LICENSE RENEWAL 71003 - PHASE 2</b>		<b>2</b>
01/24/2011	02/11/2011	IP 71003	Post-Approval Site Inspection for License Renewal	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
02/14/2011	02/18/2011	IP 71124.05	Radiation Monitoring Instrumentation	
		<b>BI EP - EP ROUTINE INSPECTION / PI VERIFICATION</b>		<b>2</b>
04/11/2011	04/15/2011	IP 7111402	Alert and Notification System Testing	
04/11/2011	04/15/2011	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
04/11/2011	04/15/2011	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
04/11/2011	04/15/2011	IP 71151-EP01	Drill/Exercise Performance	
04/11/2011	04/15/2011	IP 71151-EP02	ERO Drill Participation	
04/11/2011	04/15/2011	IP 71151-EP03	Alert & Notification System	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
04/25/2011	04/29/2011	IP 71124.04	Occupational Dose Assessment	
04/25/2011	04/29/2011	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
04/25/2011	04/29/2011	IP 71151-BI01	Reactor Coolant System Activity	

**Palisades**  
**Inspection / Activity Plan**  
**09/01/2010 - 12/31/2011**

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		<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>
04/25/2011	04/29/2011	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>BI ENG</b>	<b>- COMPONENT DESIGN BASES INSPECTION</b>	<b>6</b>
06/13/2011	07/15/2011	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
06/13/2011	07/15/2011	IP 7111121	Component Design Bases Inspection	
		<b>ISFSI</b>	<b>- ISFSI INSPECTION - SCHEDULE DEPENEDENT</b>	<b>2</b>
08/01/2011	08/31/2011	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
		<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>
07/25/2011	07/29/2011	IP 71124.02	Occupational ALARA Planning and Controls	
07/25/2011	07/29/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
07/25/2011	07/29/2011	IP 71151-OR01	Occupational Exposure Control Effectiveness	
		<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>
10/31/2011	11/04/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	

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Steven West, Director  
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**See Previous Concurrences**

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Letter to C. Schwarz from R. Orlikowski dated September 1, 2010.

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
PALISADES NUCLEAR PLANT

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