



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, ILLINOIS 60532-4352

November 20, 2020

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

SUBJECT: PALISADES NUCLEAR PLANT – EMERGENCY PREPAREDNESS
INSPECTION REPORT 05000255/2020501

Dear Mr. Corbin:

On November 4, 2020, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Palisades Nuclear Plant and discussed the results of this inspection with you and other members of your staff. The results of this inspection are documented in the enclosed report.

No findings or violations of more than minor significance were identified during this inspection.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

Patricia J. Pelke
Digitally signed by
Patricia J. Pelke
Date: 2020.11.20
13:43:38 -06'00'

Patricia J. Pelke, Chief
Operations Branch
Division of Reactor Safety

Docket No. 05000255
License No. DPR-20

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV®

Letter to Darrell Corbin from Patricia J. Pelke dated November 20, 2020.

SUBJECT: PALISADES NUCLEAR PLANT – EMERGENCY PREPAREDNESS
INSPECTION REPORT 05000255/2020501

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**U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report**

Docket Number: 05000255

License Number: DPR-20

Report Number: 05000255/2020501

Enterprise Identifier: I-2020-501-0012

Licensee: Entergy Nuclear Operations, Inc.

Facility: Palisades Nuclear Plant

Location: Covert, Michigan

Inspection Dates: October 26, 2020 to November 4, 2020

Inspectors: L. Cender, Health Physicist
M. Garza, Emergency Preparedness Inspector
G. Hansen, Senior Emergency Preparedness Inspector
R. Ng, Project Engineer

Approved By: Patricia J. Pelke, Chief
Operations Branch
Division of Reactor Safety

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting an emergency preparedness inspection at Palisades Nuclear Plant, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

List of Findings and Violations

No findings or violations of more than minor significance were identified.

Additional Tracking Items

None.

INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

REACTOR SAFETY

71114.01 - Exercise Evaluation

Inspection Review (IP Section 02.01-02.11) (1 Sample)

- (1) The inspectors evaluated the biennial emergency plan exercise on October 27, 2020. The exercise scenario simulated an event at the Palisades Nuclear Plant that initiated with the declaration and notification of an Alert in response to a 400 gallon per minute steam generator tube rupture that resulted in the actuation of the essential core cooling system (ECCS). The scenario conditions simulated the escalation of the significance of the event, requiring the declaration of a Site Area Emergency and then a General Emergency, as well as the development of Protective Action Recommendations that were communicated to the required state and local government agencies.

71114.08 - Exercise Evaluation Scenario Review

Inspection Review (IP Section 02.01 - 02.04) (1 Sample)

- (1) The inspectors reviewed and evaluated the proposed scenario for biennial emergency plan exercise on September 24, 2020.

OTHER ACTIVITIES – BASELINE

71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

EP01: Drill/Exercise Performance (IP Section 02.12) (1 Sample)

- (1) 01/01/2019 - 06/30/2020

EP02: ERO Drill Participation (IP Section 02.13) (1 Sample)

- (1) 01/01/2019 - 06/30/2020

EP03: Alert & Notification System Reliability (IP Section 02.14) (1 Sample)

(1) 01/01/2019 - 06/30/2020

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

The inspectors verified no proprietary information was retained or documented in this report.

- On November 4, 2020, the inspectors presented the emergency preparedness inspection results to Darrell Corbin and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date	
71114.01	Corrective Action Documents	CR-PLP-2019-01450	Warehouse 2 Personnel did not Hear PA Announcement or Siren	04/10/2019	
		CR-PLP-2019-01532	Drill Controllers Unable to Maintain Constant Communication	04/16/2019	
		CR-PLP-2019-01537	EOF Dose Assessment Team Dose Assessment Errors	04/16/2019	
		CR-PLP-2019-02083	PA Announcements Not Being Heard in Warehouse 2	05/22/2019	
		CR-PLP-2019-02090	Exercise ERO Members Do Not Have Respiratory Qualifications	05/22/2019	
		CR-PLP-2020-00606	OSC Did Not Administer KI Although Authorized	02/24/2020	
	Miscellaneous			Two Years of Drill and Exercise Scenario Timelines	10/01/2018 – 10/01/2020
				Two Years of Drill and Exercise Corrective Action Program Issues	10/01/2018 – 10/01/2020
				2020 NRC Evaluated Emergency Planning Exercise Critique Summary (PowerPoint Presentation)	10/27/2020
	Procedures	EAL Basis		Emergency Action Level Technical Bases	8
		EI-1		Emergency Classification and Actions	61
		EI-11		Determination of Extent of Core Damage	8
		EI-3		Communications and Notifications	36
		EI-4.1		Technical Support Center Activation	26
		EI-4.2		Operations Support Center Activation	28
		EI-4.3		Emergency Operations Facility Activation	30
		EI-6.13		Protective Action Recommendations for Offsite Populations	26
		EN-EP-609		Emergency Operations Facility (EOF) Operations	6
		EN-EP-610		Technical Support Center (TSC) Operations	5
EN-EP-611			Operations Support Center (OSC) Operations	6	
SEP		Palisades Nuclear Plant Site Emergency Plan	32		
71114.08	Miscellaneous		Palisades Nuclear Plant 2020 Emergency Exercise Scenario	08/26/2020	
71151	Miscellaneous		NRC Performance Indicator Data; Emergency Preparedness	01/01/2019 –	

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
			– Drill/Exercise Performance	06/30/2020
			NRC Performance Indicator Data; Emergency Preparedness – ERO Participation	01/01/2019 – 06/30/2020
			NRC Performance Indicator Data; Emergency Preparedness – Alert and Notification System Reliability	01/01/2019 – 06/30/2020