



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

August 11, 2020

EA-17-115

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 – INTEGRATED INSPECTION REPORT
05000255/2020002 AND EXERCISE OF ENFORCEMENT DISCRETION

Dear Mr. Corbin:

On June 30, 2020, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Palisades Nuclear Plant. On July 23, 2020, the NRC inspectors 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,

/RA/

April M. Nguyen, Acting Chief
Branch 2
Division of Reactor Projects

Docket No. 05000255
License No. DPR-20

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV®

Letter to Darrell Corbin from April M. Nguyen dated August 11, 2020.

SUBJECT: PALISADES NUCLEAR PLANT – INTEGRATED INSPECTION REPORT
05000255/2020002 AND EXERCISE OF ENFORCEMENT DISCRETION

DISTRIBUTION:

Jessie Quichocho
Elise Burket
RidsNrrPMPalisades Resource
RidsNrrDorLpl3
RidsNrrDrolrib Resource
John Giessner
Kenneth O'Brien
Jamnes Cameron
Allan Barker
DRPIII
DRSIII
ROPreports.Resource@nrc.gov

ADAMS ACCESSION NUMBER: ML20224A204

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RIII	RIII	RIII		
NAME	RRuiz:wc via email	JCameron via email	ANguyen via email		
DATE	8/11/2020	8/11/2020	8/11/2020		

OFFICIAL RECORD COPY

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

Docket Number: 05000255

License Number: DPR-20

Report Number: 05000255/2020002

Enterprise Identifier: I-2020-002-0033

Licensee: Entergy Nuclear Operations, Inc.

Facility: Palisades Nuclear Plant

Location: Covert, MI

Inspection Dates: April 1, 2020 to June 30, 2020

Inspectors: J. Benjamin, Senior Reactor Inspector
P. Laflamme, Senior Resident Inspector
J. Mancuso, Resident Inspector
V. Myers, Senior Health Physicist
C. St. Peters, Resident Inspector

Approved By: April M. Nguyen, Acting Chief
Branch 2
Division of Reactor Projects

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting an integrated 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

Type	Issue Number	Title	Report Section	Status
EDG	EA-17-115	Enforcement Action EA-17-115: Enforcement Discretion for Tornado Missile Protection Non- Conforming Conditions	71111.15	Discussed

PLANT STATUS

The plant began the inspection period at rated thermal power and remained at or near rated thermal power for the remainder of the inspection period.

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.

Starting on March 20, 2020, in response to the National Emergency declared by the President of the United States on the public health risks of the coronavirus (COVID-19), resident inspectors were directed to begin telework and to remotely access licensee information using available technology. During this time the resident inspectors performed periodic site visits each week and during that time conducted plant status activities as described in IMC 2515, Appendix D; observed risk significant activities, and completed on-site portions of IPs. In addition, resident and regional baseline inspections were evaluated to determine if all or a portion of the objectives and requirements stated in the IP could be performed remotely. If the inspections could be performed remotely, they were conducted per the applicable IP. In some cases, portions of an IP were completed remotely and on-site. The inspections documented below met the objectives and requirements for completion of the IP.

REACTOR SAFETY

71111.01 - Adverse Weather Protection

Seasonal Extreme Weather Sample (IP Section 03.01) (1 Sample)

- (1) The inspectors evaluated summer readiness of offsite and alternating current (AC) power systems on June 3, 2020

External Flooding Sample (IP Section 03.03) (1 Sample)

- (1) The inspectors evaluated flood protection barriers, mitigation plans, procedures, and equipment are consistent with the licensee's design requirements and risk analysis assumptions for coping with external flooding on June 9, 2020

71111.04 - Equipment Alignment

Partial Walkdown Sample (IP Section 03.01) (3 Samples)

The inspectors evaluated system configurations during partial walkdowns of the following systems/trains:

- (1) Emergency diesel generator (EDG) 1-1 on April 23, 2020
- (2) Right train high pressure safety injection (HPSI) system on June 3, 2020
- (3) Left train low pressure safety injection (LPSI) system on June 15, 2020

Complete Walkdown Sample (IP Section 03.02) (1 Sample)

- (1) The inspectors evaluated system configurations while performing a complete walkdown of the right train auxiliary feedwater (AFW) system during the week of May 18, 2020

71111.05 - Fire Protection

Fire Area Walkdown and Inspection Sample (IP Section 03.01) (4 Samples)

The inspectors evaluated the implementation of the fire protection program by conducting a walkdown and performing a review to verify program compliance, equipment functionality, material condition, and operational readiness of the following fire areas:

- (1) Fire Area 24: AFW pump room, elevation 571' on April 10, 2020
- (2) Fire Areas 5 & 7: 1-1 diesel generator and fuel oil day tank rooms, elevation 590' on April 24, 2020
- (3) Fire Area 33: Technical Support Center, elevation 625' on May 7, 2020
- (4) Fire Area 1: Control Room, elevation 625' on June 29, 2020

71111.11Q - Licensed Operator Requalification Program and Licensed Operator Performance

Licensed Operator Requalification Training/Examinations (IP Section 03.02) (1 Sample)

- (1) The inspectors observed and evaluated PLSEG-LOR-20B-04 on June 19, 2020

71111.12 - Maintenance Effectiveness

Maintenance Effectiveness (IP Section 03.01) (2 Samples)

The inspectors evaluated the effectiveness of maintenance to ensure the following structures, systems, and components (SSCs) remain capable of performing their intended function:

- (1) Thermal margin monitoring system on April 20, 2020
- (2) Primary coolant system on May 29, 2020

71111.13 - Maintenance Risk Assessments and Emergent Work Control

Risk Assessment and Management Sample (IP Section 03.01) (3 Samples)

The inspectors evaluated the accuracy and completeness of risk assessments for the following planned and emergent work activities to ensure configuration changes and appropriate work controls were addressed:

- (1) Risk management activities and emergent work for P1-A, main feedwater pump (MFP), recirculation valve steam leak on April 23, 2020

- (2) Emergent troubleshooting and work management activities associated with letdown system pressure control on April 29, 2020
- (3) Elevated risk for planned shutdown cooling system testing on June 10, 2020

71111.15 - Operability Determinations and Functionality Assessments

Operability Determination or Functionality Assessment (IP Section 03.01) (4 Samples)

The inspectors evaluated the licensee's justifications and actions associated with the following operability determinations and functionality assessments:

- (1) Review of identified tornado missile protection nonconformance during the week of April 6, 2020
- (2) Thermal margin monitor channel A operability evaluation on May 5, 2020
- (3) Quench tank pressure rise evaluation on June 25, 2020
- (4) Pressurizer heater breaker friction block evaluation on June 26, 2020

71111.18 - Plant Modifications

Temporary Modifications and/or Permanent Modifications (IP Section 03.01 and/or 03.02) (1 Sample)

The inspectors evaluated the following temporary or permanent modifications:

- (1) Temporary modification to CV-944A manual side packing on April 17, 2020

71111.19 - Post-Maintenance Testing

Post-Maintenance Test Sample (IP Section 03.01) (3 Samples)

The inspectors evaluated the following post maintenance test activities to verify system operability and functionality:

- (1) Control Room ventilation system testing following planned maintenance activities on April 27, 2020
- (2) Letdown stop valve orifice testing following planned maintenance activities on May 7, 2020
- (3) CV-0711, P-1A MFP recirculation valve testing following body to bonnet steam leak repairs on May 14, 2020

71111.22 - Surveillance Testing

The inspectors evaluated the following surveillance tests:

Surveillance Tests (other) (IP Section 03.01) (2 Samples)

- (1) 1-2 EDG monthly surveillance test on April 21, 2020
- (2) Reactor protection matrix logic quarterly surveillance test on June 3, 2020

Inservice Testing (IP Section 03.01) (1 Sample)

- (1) QO-42, shutdown cooling valves test on June 10, 2020

FLEX Testing (IP Section 03.02) (1 Sample)

- (1) FLEX Standby PM: P-1003, One Year Operational Test on April 14, 2020

RADIATION SAFETY

71124.03 - In-Plant Airborne Radioactivity Control and Mitigation

Use of Respiratory Protection Devices (IP Section 03.03) (1 Sample)

- (1) The inspectors evaluated the licensee's use of respiratory protection devices

Self-Contained Breathing Apparatus for Emergency Use (IP Section 03.04) (1 Sample)

- (1) The inspectors evaluated the licensee's use and maintenance of self-contained breathing apparatuses

71124.04 - Occupational Dose Assessment

Source Term Characterization (IP Section 03.01) (1 Sample)

- (1) The inspectors evaluated licensee performance as it pertains to radioactive source term characterization

External Dosimetry (IP Section 03.02) (1 Sample)

- (1) The inspectors evaluated licensee performance as it pertains to external dosimetry that is used to assign occupational dose

Special Dosimetric Situations (IP Section 03.04) (2 Samples)

The inspectors evaluated the following special dosimetric situations:

- (1) Dose assessment for a declared pregnant worker in 2019
- (2) Effective dose equivalent assessment for individual performing reactor head work in 2018

OTHER ACTIVITIES – BASELINE

71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

IE03: Unplanned Power Changes per 7000 Critical Hours Sample (IP Section 02.02) (1 Sample)

- (1) Unit 1 (April 1, 2019–March 31, 2020)

MS05: Safety System Functional Failures (SSFFs) Sample (IP Section 02.04) (1 Sample)

- (1) Unit 1 (April 1, 2019–March 31, 2020)

71152 - Problem Identification and Resolution

Semiannual Trend Review (IP Section 02.02) (1 Sample)

- (1) The inspectors reviewed the licensee’s corrective action program for potential adverse trends with a focus on human performance issues that might be indicative of a more significant safety issue during the period from January 1, 2020 to June 30, 2020

Annual Follow-up of Selected Issues (IP Section 02.03) (1 Sample)

The inspectors reviewed the licensee’s implementation of its corrective action program related to the following issues:

- (1) Letdown relief valve lift and subsequent isolation adverse condition analysis, as documented in CR-PLP-2020-00611, during the week of May 18, 2020

71153 - Follow-up of Events and Notices of Enforcement Discretion

Event Report (IP Section 03.02) (1 Sample)

The inspectors evaluated the following licensee event reports (LERs):

- (1) Licensee Event Reports 05000255/2017-001-00/01, "Inadequate Protection from Tornado Missiles Identified Due to Nonconforming Conditions" retraction

This LER was submitted and subsequently retracted LERs 05000255/2017-001-00(01) by licensee correspondence titled "Cancellation of Licensee Event Reports 2017-001-00 and 2017-001-01, "Inadequate Protection from Tornado Missiles Identified Due to Nonconforming Design Conditions", dated March 31, 2020, ADAMS Accession No. ML20091J599. The inspectors reviewed the LER and completed an inspection sample listed under 71111.15, Operability Determination, of this report.

INSPECTION RESULTS

EDG (Discussed)	Enforcement Action EA–17–115: Enforcement Discretion for Tornado Missile Protection Non-Conforming Conditions EDG	71111.15
<u>Description:</u> On June 10, 2015, the NRC issued Regulatory Issue Summary 2015–06, “Tornado Missile Protection,” focusing on the requirements regarding tornado-generated missile protection and required compliance with the facility-specific licensing basis. The Regulatory Issue Summary also provided examples of noncompliances that had been identified through different mechanisms and referenced Enforcement Guidance Memorandum (EGM) 15–002, which was also issued on June 10, 2015. Revision 1 of EGM 15–002 was issued on February 7, 2017. The EGM revision provided guidance to allow the NRC staff to exercise enforcement		

discretion when an operating power plant licensee did not comply with the current licensing basis for tornado-generated missile protection. Specifically, the discretion applied to structures, systems, and components (SSCs) declared inoperable resulting in TS Limiting Conditions for Operation (LCOs) that would require a reactor shutdown or mode change if the licensee could not meet the required actions within the TS completion time. The discretion allowed the licensee to re-establish operability through compensatory measures and established criteria for continued operation of the facility as longer-term corrective actions were implemented.

On March 29, 2017, the licensee initiated condition reports (CRs) CR-PLP-2017-01248, CR-PLP-2017-01249, CR-PLP-2017-01250, CR-PLP-2017-01251, CR-PLP-2017-01252, and CR-PLP-2017-01253, identifying multiple nonconforming conditions of their site-specific licensing basis. Specifically, the licensee identified multiple non-conforming conditions related to inadequate tornado-generated missile protection. The licensee declared multiple SSCs inoperable, promptly implemented interim compensatory measures, and subsequently exited the TS LCO action statements based upon NRC EGM 15-002 guidelines. The NRC documented additional information in Integrated Inspection Report 05000255/2018001.

On January 20, 2020, the licensee completed a tornado missile nonconformance review to document the licensing basis for Palisades tornado missile protection features, specifically regarding the non-conforming issues identified as a result of NRC Regulatory Issue Summary 2015-06. The licensee's review concluded that the previously identified non-conforming issues were, in fact, conforming to the current licensing basis. As such, the licensee concluded that corrective actions were not required to restore compliance.

The inspectors reviewed the licensee's nonconformance review documented in Engineering Change (EC) 85113, condition reports initiated by the licensee, historic NRC correspondence, aspects of the original conditional operating license and final operating license, the original FSAR, the UFSAR, related safety evaluation report correspondence, the incorporation of the Systematic Evaluation Program into the current licensing basis and other documents provided in the documents reviewed section of this report. Consistent with the licensee's review documented in EC 85113, the inspectors did not identify any non-conforming conditions, findings or violations. As a result, no corrective actions are required and EA-17-115 is considered closed.

Observation: Semi-Annual Trend Review	71152
<p>The inspectors' review was focused on human performance issues, but also considered the results of daily inspector CAP item screening and licensee trending efforts. The inspectors' review nominally considered the 6-month period of January 2020 through June 2020, although some examples expanded beyond those dates when warranted by the scope of the trend.</p> <p>The inspectors reviewed condition reports, trend reports, and human performance evaluations to address performance oversight at the site. During the inspection period, the NRC inspectors noted a few challenges where low-level human performance errors occurred in multiple departments, including Operations, Maintenance, Security, and Training. Examples included the operation of a breaker failure relay during maintenance activities which resulted in an unexpected trip of the switchyard 345 kV rear bus, not all required sections of Simulator Exercise Guide (SEG) being covered during the Licensed Operator initial simulator training, a level-3 tagging error, a missed window to block MSIV closure, and an unplanned water transfer to SIRWT. Although the above examples did not challenge</p>	

safety function or equipment reliability, these issues illustrated a decline in the use of human performance tools, which could potentially impact nuclear safety.

The licensee appropriately entered these issues into the CAP and completed timely evaluations addressing each challenge listed above. Corrective actions included training, site-wide communications reinforcing standards and expectations, and a re-emphasis on the following human performance tools: pre-job briefs; procedure use and adherence; and verification and validation activities. The inspectors determined that the corrective actions taken to date appeared to be effective at addressing the identified gaps and plan to continue to evaluate these actions during routine observations and inspections.

Observation: Letdown Relief Valve Lift Adverse Condition Analysis Review	71152
--	-------

The inspectors reviewed the events, circumstances, and causal evaluation associated with the letdown relief valve, RV-2006, lift that occurred on February 25, and again on March 4, 2020. Their efforts included assessing the licensee's Failure Mode Analysis (FMA), troubleshooting, trending, and aggregate review activities. Additionally, the inspectors reviewed primary coolant system leakage trends, equipment condition assessments for the letdown system, monthly containment tour results, and quench tank level monitoring. The inspectors also interviewed operators, maintenance workers, and engineering personnel to complete their assessment efforts. In their review, the inspectors noted that the direct cause of relief valve lift was attributed to a localized pressure transient in the letdown system resulting from the intermediate letdown pressure controller timing sensitivity coupled with gas void collapse at the relief valve seat. For corrective actions, the licensee replaced RV-2006 and re-tuned the intermediate letdown pressure controller, which resulted in stabilizing system pressure. Therefore, since the licensee sufficiently determined the direct cause of relief valve lift and successfully completed corrective actions, the inspectors concluded the licensee actions taken were timely and effective commensurate with safety significance.

EXIT MEETINGS AND DEBRIEFS

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

- On July 23, 2020, the inspectors presented the integrated inspection results to Mr. D. Corbin, Site Vice President, and other members of the licensee staff.
- On May 13, 2020, the inspectors presented the radiation protection inspection results to Mr. D. Corbin, Site Vice President, and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.01	Corrective Action Documents	CR-PLP-2020-01398	Boot Seals on South Wall (Containment) of Room 121 A (Dog House)	05/01/2020
		CR-PLP-2020-01864	Lake Michigan Level has Potentially Exceeded the Design Basis Elevation of 583.2 ft MSL	06/10/2020
	Engineering Changes	EC 0000029653	Revise Flooding Analysis to Reflect Changes in Plant Configuration	Revision 0
	Miscellaneous	Engineering Information Record 51-9226987-000	Palisades Nuclear Plant Flooding Hazard Re-Evaluation Report	05/09/2015
		PNP 2015-018	Required - Response 2 for Near-Term Task Force Recommendation 2.1: Flooding - Hazard Re-Evaluation Report	03/11/2015
71111.04	Corrective Action Documents	CR-PLP-2020-01295	During Walkdown of EDG 1-1 Noted that Flexible Piping for Crankcase Exhaust Motors was Degrading	04/23/2020
		CR-PLP-2020-01381	While Performing Maintenance in the Aux Feed Pump Room, I&C Technicians Noticed Water Running Down the Wall	04/30/2020
		CR-PLP-2020-01418	1-1 Diesel Generator Found that the Number 7L Petcock was Spinning Freely When he Attempted to Open it	05/04/2020
		CR-PLP-2020-01806	Received EK-1319, Safety Injection Tank T-82B Hi-Lo Level Unexpectedly	06/05/2020
		CR-PLP-2020-01861	MO-3045, Safety Injection Tank T-82B Outlet Isolation Valve	06/10/2020
		CR-PLP-2020-01883	PT-0510, Turbine Bypass Valve Controller Pressure for CV-0511 Turbine Bypass Valve	06/11/2020
		CR-PLP-2020-01884	P-8D Diesel Driven Aux Feedwater Pump	06/11/2020
		CR-PLP-2020-01911	Nitrogen Station 5 Bottle Station has a Leak Somewhere Causing Lowering Station Pressure	06/15/2020
		CR-PLP-2020-01915	PI-3027 HP Air to CV-3027 Actuator is Reading 192 psig, eSOMS Limit is 190 psig	06/15/2020

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		CR-PLP-2020-01916	Observed Water Leaking from Overhead Drain Header Line	06/15/2020
	Corrective Action Documents Resulting from Inspection	CR-PLP-2020-01969	NRC Inspector Noted a Discrepancy Between In-Plant Labeling and a Table in SOP-3 Attachment 18.	06/22/2020
	Procedures	SOP-3, Attachment 18	Engineered Safeguard Administrative Control Verification	Revision 106
71111.05	Corrective Action Documents	CR-PLP-2020-01406	Fire Protection Check Sheet Annual Inspection Sticker was Past Due	05/03/2020
		CR-PLP-2020-01869	P-8D, Diesel Driven Aux Feedwater Pump	06/10/2020
	Fire Plans	Pre-Fire Plan 1	Control Room Elev 625'	Revision 5
71111.11Q	Procedures	PSLEG-LOR-20B-04	TG Synch Scenario	Revision 2
71111.12	Corrective Action Documents	CR-PLP-2019-0152	Received Alarm EK-0748, Reactor Water Low Level Indication LIA-0105 Alarm	01/11/2019
		CR-PLP-2020-00032	CA-03 Maintenance Rule (a)(1) Evaluation Component Failure Performance Criteria Exceeded on PCS/PZR Instrumentation	01/28/2020
		CR-PLP-2020-01148	Water and Oil Mixture on the Floor of SFP Heat Exchanger Room	04/11/2020
		CR-PLP-2020-01155	P-67A(LPSI Pump) has Boron Precipitate on Studs/Nuts at Motor/Pump Interface	04/13/2020
		CR-PLP-2020-01176	CV-2056 Failure to Align to Clean Waste Receiver Tank	04/15/2020
		CR-PLP-2020-01227	'A' Charging Pump Speed Elevated from Previous Indications During CVCS Double Charging and Letdown	04/18/2020
		CR-PLP-2020-01320	Thermal Margin Monitor (TMM) PY-0102C Repeat Functional Failure	04/27/2020
		CR-PLP-2020-01400	Time Displayed on the Three Recently Replaced LCD Thermal Margin Monitor Screens (B/C/D) is One Hour Later than Actual Time	05/02/2020

71111.12	Corrective Action Documents	CR-PLP-2020-01937	Chemical & Volume Control System (CVC-CVC) has Exceeded its Maintenance Rule Reliability Performance Criteria	06/17/2020
	Miscellaneous		PZR System Health Report 2Q2018	04/01/2018 - 06/30/2019
			PZR System Health Report 4Q2018	10/01/2018 - 12/31/2018
			PZR System Health Report 2Q2019	04/01/2019 - 06/30/2019
			PZR System Health Report 4Q2019	10/01/2019 - 12/31/2019
			PCS System Health Report 2Q2019	04/01/2019 - 06/30/2019
			PCS System Health Report 2Q2018	04/01/2018 - 06/30/2018
			PCS System Health Report 4Q2018	10/01/2018 - 12/31/2018
			PCS System Health Report 4Q2019	04/01/2019 - 06/30/2019
			WT-WTPLP-2017-00011	CA-81 Proposed New Maintenance Rule Functional Failure Performance Criteria for Primary Coolant System Instruments
71111.13	Corrective Action Documents	CR-PLP-2020-01264	Steam Leak Identified on CV-0711 Feed Pump P-1A Recirculation	04/22/2020
		CR-PLP-2020-01522	Integrated Risk for RI-95B, Aux Feedwater Flow FT-0749 Instrument Loop Calibration was Reclassified on the Day of Execution	05/12/2020
	Drawings	M-202	Chemical & Volume Control System Piping & Instrument Diagram	Revision 62
		M-207	Feedwater & Condensate System Piping & Instrument Diagram	Revision 53
	Miscellaneous	Adverse Condition and Monitoring Plan for WO 543553	CV-0711, Feed Pump P-1A Recirculation, Steam Leak	04/22/2020
71111.15	Corrective Action	CR-PLP-2017-	Service Water System Tornado Missile Nonconformance	03/29/2017

	Documents	01248	Issue	
		CR-PLP-2017-01249	Fuel Oil System Tornado Missile Nonconformance Issue	03/29/2017
		CR-PLP-2017-01250	Emergency Diesel Generator Tornado Missile Nonconformance Issue	03/29/2017
		CR-PLP-2017-01251	Control Room Ventilation System Tornado Missile Nonconformance Issue	03/29/2017
		CR-PLP-2017-01252	Steam Driven Auxiliary Feedwater Pump Tornado Missile Nonconformance Issue	03/29/2017
		CR-PLP-2017-01252	Component Cooling Water System Tornado Missile Nonconformance Issue	03/29/2017
		CR-PLP-2018-00556	Additional Component Cooling Water System Tornado Missile Vulnerability	01/31/2018
		CR-PLP-2020-00740	Thermal Margin Monitor (TMM) Screen is Showing Double Numbers on Top of Each Other	03/04/2020
		CR-PLP-2020-01242	Operability of the Class EC-2 Piping	04/20/2020
		CR-PLP-2020-02077	Small Packing Leak from CV-1656	06/29/2020
	Engineering Changes	EC 0000085113	Tornado Missile Nonconformance Review	01/29/2020
	Miscellaneous	NUREG-0820	Integrated Plant Safety Assessment Systematic Evaluation Program Palisades Plant	10/01/1982
		NUREG-0820 Supplement 1	Integrated Plant Safety Assessment Systematic Evaluation Program Palisades Plant	11/01/1983
		NUREG-1424	Safety Evaluation Report Related to the full-term Operating License for Palisades Nuclear Plant	11/01/1990
	Operability Evaluations	CR-PLP-2020-01988	Pressurizer Heater Friction Block Operability Evaluation	06/23/2020
Procedures	QI-25	Thermal Margin Monitor Constant Checks	03/05/2020	
Work Orders	00531075	PY-0102D; Replace Components and Reset Error Code 75, QI-25	10/10/2019	
	00540421-01	PY-0102A; Replace Video Card and Other Components as Needed	03/16/2020	
71111.18	Corrective Action Documents	CR-PLP-2020-01118	Received Alarm EK-0545 Preferred AC Bus No. 2 Unexpectedly	04/08/2020

	Operability Evaluations	EN-LI-113	Licensing Basis Document Change Process	Revision 19
	Procedures	EN-LI-100	Process Applicability Determination	Revision 29
	Work Orders	00541712	CV-0944A Install Packing Follower Temp Block	04/06/2020
71111.19	Corrective Action Documents	CR-PLP-2020-01248	Y-Phase Pole on Breaker 52-2624 (Condensing Unit VC-10 for Air Handling Unit V-96) Failed Instantaneous Overcurrent Testing	04/21/2020
		CR-PLP-2020-01275	During Inspection of PO-1712 (Modulating Damper D-21 Positioner), Electricians Observed that the Locking Nuts and Feedback Arm were Loose on the Shaft	04/22/2020
	Engineering Changes	EC 86710	Temporary Leak Repair of the Pressure-Seal Body-to-Bonnet Joint on Main Feedwater Pump (P-1A) Recirculation Valve CV-0711	04/28/2020
	Miscellaneous	Field Change Request 86817	Installation Adjustments for EC-86710 Temporary Leak Repair of the Pressure-Seal Body-to-Bonnet Joint on Main Feedwater Pump (P-1A) Recirculation Valve CV-0711	Revision 0
	Procedures	MO-33	Control Room Ventilation Emergency Operation	04/22/2020
	Work Orders	0052856686	52-2624 (VC-10) OPS PMT	04/21/2020
		00534222-03	3Y-8; New HGA Relay for VC-10 PMT	04/21/2020
		00543553-01	CV-0711 - P-1A Recirc Valve	04/28/2020
00543843-02		CV-2004, OPS PMT	05/06/2020	
71111.22	Corrective Action Documents	CR-PLP-2020-01247	Cylinder Exhaust Temperature for 9R Cylinder was Found Low Out of Specification	04/21/2020
		CR-PLP-2020-01280	Relay for High Pressure Safety Injection (HPSI) P-66A Protection was Found to Have its High Dropout, Dropout Low	04/22/2020
		CR-PLP-2020-01970	SPI Control Rod Position Indication	06/22/2020
	Procedures	MO-7A-2	Emergency Diesel Generator 1-2	04/21/2020
		QI-3	Reactor Protection Matrix Logic Tests	Revision 7
		QO-42	Inservice Testing of Shutdown Cooling Control Valves	Revision 24
		QO-42 Attachment 11	Mode 1, 2, or 3 (Greater than 325°F) Valve Exercising Stroke Time Data Sheet	06/10/2020
	Work Orders	0052910968-01	MO-7A-2 Emergency Diesel Generator 1-2 (K6B)	04/06/2020
0052925885-01		QO-42 IST Shutdown Cooling Valves	06/10/2020	
71124.03	Corrective Action	CR-PLP-2019-	PortaCount Suspicious Fit Factor Warning Received	03/19/2019

	Documents	01160		
	Miscellaneous	FPF-GET-RPT Attachment 32	MSA Powered Air Purifying Respirator Practical	Revision 29
		MED FPEX-MED-PHYRSP	Respirator Medical Evaluation Records for Various Individuals	Various Dates
		N/A	Posi3 USB Test Results for Scott Air-Paks 0867 and 1681	09/04/2019
		N/A	Posi3 USB Test Results for Scott Air-Pak 1685	09/05/2019
		PL-TRN19-2924	SCBA Practical and Fit Test	12/13/2019
		PL-TRN20-0563	SCBA Practical and Fit Test	04/07/2020
		PL-TRN20-0570	SCBA Practical and Fit Test	04/07/2020
		PLLP-FBT-SCOTTSCBA75	Training for Scott Air-Pak Self Contained Breathing Apparatus	Revision 06
		WI-RSD-T-008	SCBA Inspection Log	03/13/2020
	Procedures	EN-RP-502	Inspection and Maintenance of Respiratory Protection Equipment	Revision 10
		EN-RP-505	PortaCount Respirator Fit Testing	Revision 07
	Radiation Work Permits (RWPs)	20190310	Forced Outage Containment Decontamination Activities	Revision 00
		20190318	Pressurizer Spray Valve CV-1057 Maintenance	Revision 02
	Work Orders	52906597	B5B SCBA Breathing Air Systems	02/20/2020
		52907638	Respiratory Protection Equipment Inspection	04/09/2020
71124.04	Corrective Action Documents	CR-PLP-2019-00857	Dose Rate Alarm During Charging Pump Work	02/27/2019
	Corrective Action Documents Resulting from Inspection	CR-HQN-2020-01009	EN-RP-206 Potential Causes for Dosimetry Discrepancies High-E Code Value Low	05/11/2020
		CR-PLP-2020-01517	Dosimetry Discrepancies and Ag-110m	05/12/2020
	Miscellaneous	EN-RP-203, Attachment 9.3	Dosimetry Investigation Report for Various Individuals	02/27/2020
		PLP-RPT-19-009	Update to TID 2015-008 rev 5, Palisades Dosimetry Background Performance	Revision 0
	Procedures	EN-RP-210	Area Monitoring Program	Revision 1
Work Orders	52814864	TLD Monitoring Program	04/01/2019	
71151	Corrective Action Documents	CR-PLP-2020-01041	The Monthly Performance Indicator (PI) for Critical Scope Survival and Schedule Completion Changed from Green to Red for the Month of March 2020	04/01/2020

	Miscellaneous		4Q2019 NRC Performance Indicators	10/01/2019 - 12/31/2019
			3Q2019 NRC Performance Indicators	07/01/2019 - 09/30/2019
			2Q2019 NRC Performance Indicators	04/01/2019 - 06/30/2019
			1Q2020 NRC Indicator Safety System Functional Failures	01/01/2020 - 03/31/2020
			4Q2019 NRC Indicator Safety System Functional Failures	10/01/2019 - 12/31/2019
			3Q2019 NRC Indicator Safety System Functional Failures	07/01/2019 - 09/31/2019
			2Q2019 NRC Indicator Safety System Functional Failures	04/01/2019 - 06/30/2019
			1Q2020 NRC Performance Indicators	01/01/2020 - 03/31/2020
71152	Corrective Action Documents	CR-PLP-2019-03474	Inadvertent Water Transfer from SFP to SIRWT	09/05/2019
		CR-PLP-2020-00611	RV-2006 Lifted Unexpectedly During Plant Evolution	04/14/2020
		CR-PLP-2020-00696	Palisades Oversight of Switchyard Activities	03/02/2020
		CR-PLP-2020-01284	Received Alarm EK-0704, Letdown Heat Exch Tube Inlet Hi-Lo Press Unexpectedly	04/22/2020
		CR-PLP-2020-01314	Received EK-0704, Letdown Heat Exch Tube Hi-Lo Press Momentarily While Lowering Charging Letdown per SOP-2A	04/26/2020
		CR-PLP-2020-01818	The PPC Shows a Declining Tave Trend on the "8 Hour" and "Day" Trend Time Frames	06/06/2020
		CR-PLP-2020-01938	Quench Tk Level and Pressure Along with a Rise in Temperature on RV-2006 Intermediate Letdown Relief Valve	06/17/2020
		CR-PLP-2020-01950	On 06/04/2020 Quench Tank Pressure Started Rising at a Rate of Approximately 1.2 psig/day	06/17/2020
	Miscellaneous		DPRM/APRM Report	02/2020
		DPRM/APRM Report	11/2019	

71152	Procedures	EN-LI-102	Corrective Action Program	Revision 40
		EN-LI-118	Casual Analysis Process	Revision 31
	Work Orders	0052910968-01	MO-7A-2 Emergency Diesel Generator 1-2 (K-6B)	04/06/2020