



Entergy Nuclear Operations, Inc.  
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Jeff Hardy  
Manager, Regulatory Assurance

10 CFR 50.4

PNP 2021-001

January 12, 2021

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

Subject: ASME Section XI 90-Day Owner's Activity Report

Palisades Nuclear Plant  
NRC Docket No. 50-255  
Renewed Facility Operating License No. DPR-20

In accordance with the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Code Case N-532-5, *Repair/Replacement Activity Documentation Requirements and Inservice Inspection Summary Report Preparation and Submission, Section XI, Division 1*, Entergy Nuclear Operations, Inc. (Entergy) herein submits the Owner's Activity Report for the Palisades Nuclear Plant (PNP). The report contains a listing of two items with flaws or relevant conditions that required evaluation for continued service, and an abstract of five repair/replacement activities that were required for continued service. These activities were performed during the PNP twenty-seventh fuel cycle and the subsequent 2020 refueling outage (1R27). The PNP refueling outage was completed on October 20, 2020.

This letter contains no new commitments and no revised commitments.

Should you have any questions or require additional information, please contact Jim Miksa Regulatory Assurance Engineer at 269-764-2945.

Respectfully,

A handwritten signature in blue ink, appearing to read "JA Hardy", is written over a light blue grid background.

Jeffery A. Hardy

JAH/jpm

PNP 2021-001

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Enclosure: Palisades Nuclear Plant, Letter PNP 2021-001, Form OAR-1 Owner's Activity Report

cc: NRC Region III Regional Administrator  
NRC Senior Resident Inspector - Palisades  
NRC Project Manager - Palisades

**Enclosure**

**Palisades Nuclear Plant**

**Letter PNP 2021-001**

**Form OAR-1, Owner's Activity Report**

**3 pages follow**

**FORM OAR-1 OWNERS ACTIVITY REPORT**

Report Number: PLP-1R27-OAR-1

Page 1 of 3

Plant: Palisades Nuclear Plant

Unit No: 1  
(if applicable)

Commercial Service Date: 12/31/1971

Refueling Outage No.: 1R27

Current Inspection Interval: IWB, IWC, IWD, IWF: 5<sup>th</sup>  
IWE, IWL: 3<sup>rd</sup>  
(1st, 2nd, 3rd, 4th, Other)

Current Inspection Period: IWB, IWC, IWD, IWF: 2<sup>nd</sup>  
IWE, IWL: 1<sup>st</sup>  
(1st, 2nd, 3rd)

**Edition and Addenda of Section XI applicable to the Inspection Plans:**

ISI program activities related to class 1, 2, and 3 components and supports to the ASME BPV Code, Section XI, 2007 Edition with the 2008 Addenda.

ISI activities related to Pressure Testing (PT), and Nondestructive Examination (NDE) to ASME BPV Code, Section XI, 2007 Edition with the 2008 Addenda.

ISI activities related to IWE and IWL from 10/16/2009 through 10/16/2019 to the ASME BPV Code, Section XI, Division 1, Subsections IWE and IWL, 2004 Edition.

ISI activities related to IWE and IWL after 10/16/2019 to the ASME BPV Code, Section XI, Division 1, Subsections IWE and IWL, 2013 Edition.

Date and Revision of Inspection Plans: IWB, IWC, IWD, IWF: Revision 7 (10/18/2018), Revision 8 (2/8/2019), Revision 9 (10/29/2019), Revision 10 (9/15/2020).  
IWE, IWL 6/15/2020 Revision 6, 6/20/2020 Revision 7.

**Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the Inspection Plans:**

Repair and Replacement (R&R) program related activities related to class 1, 2, and 3 components and supports to the ASME BPV Code, Section XI, 2007 Edition with the 2008 Addenda.

IWE, IWL activities related to Repair and Replacement (R&R) from 10/16/2009 through 10/16/2019 are to ASME BPV Code, Section XI 2007 Edition through the 2008 Addenda

IWE, IWL activities related to Repair and Replacement (R&R) after 10/16/2019 are to ASME BPV Code, Section XI, 2013 Edition.

Code Cases used for inspection and evaluation: N-532-5, N-638-7, N-706-1, N-716-1, N-722-1, N-729-4, N-729-6, N-770-2  
(if applicable, including cases modified by Case N-532 and later revisions)

**CERTIFICATE OF CONFORMANCE**

I certify that (a) the statements made in this report are correct; (b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of 1R27 conform to the requirements of Section XI.  
(refueling outage number)

J Nordby / *J Nordby* R/R Program Owner

12/14/20

Signed: G Katt / *G Katt* ISI Program Owner

Date: 12/14/2020

Owner or Owner's Designee, Title

**FORM OAR-1 OWNERS ACTIVITY REPORT**

Report Number: PLP-1R27-OAR-1

Page 2 of 3

Plant: Palisades Nuclear Plant

Unit No: 1  
(if applicable)

Commercial Service Date: 12/31/1971

Refueling Outage No.: 1R27

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by The Hartford Steam Boiler Inspection and Insurance Company of Hartford, CT have inspected the items described in this Owner's Activity Report, and state that, to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair/replacement activities and evaluation described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

A. Roman /   
Inspector's Signature

Commissions: 14594 NIR  
(National Board Number and Endorsement)

Date: 12/15/2020

**TABLE 1:  
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE**

Examination Category and Item Number	Item Description	Evaluation Description
ASME Code Case N-729-4 Code Item B4.10	N-50 Reactor Vessel Closure Head Class 1	CR-PLP-2020-03357 NDE Report No. 1R27-VT-20-062- General as found condition around the head, scaling and general mild corrosion identified on reactor vessel head.  Evaluation determined the component was acceptable for continued service in accordance with ASME Code Case N-729-4, Paragraph 3142.
ASME IWL Category L-A Items L1.11 and L1.12	All accessible concrete surface areas and suspect areas	CR-PLP-2020-02009 and NDE Reports 1R27-VT-20-008 and 1R27-VT-20-010 identified one location of concrete scaling/spalling on the Containment Dome near Tendon Can V-140 that exceeded the screening criteria. Note that one NDE report was for the general visual exam which was followed by the detailed visual exam at the same location.  Engineering Changes EC 87289 and EC 87503 found this area acceptable by evaluation per IWL-3212.

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**FORM OAR-1 OWNERS ACTIVITY REPORT**

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Report Number: PLP-1R27-OAR-1

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Plant: Palisades Nuclear Plant

Unit No: 1  
(if applicable)

Commercial Service Date: 12/31/1971

Refueling Outage No.: 1R27

**TABLE 2:  
ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE**

Code Class	Item Description	Description of Work	Date Completed	Repair/Replacement Plan Number
1	Reactor Head Control Rod Drive Nozzles 17, 34	Repair Primary Water Stress Corrosion Cracks by replacing portion of nozzle with through wall flaw using Ambient Temper Bead Welding	10/20/2020	PLP00550825 Rev 1
1	E-50A, "A" Steam Generator	Mechanically plug 36 tubes due to indications found during Eddy Current Testing	9/17/2020	PLP52871028 Rev 1
1	E-50B, "B" Steam Generator	Mechanically plug 27 tubes due to indications found during Eddy Current Testing	9/17/2020	PLP52871252 Rev 1
3	YS-2101, Spent Fuel Pool Demineralizer Outlet Wye Strainer	Replace Wye Strainer due to through wall leak	5/16/2020	PLP00308470 Rev 1
3	CK-CD407, Steam Generator Recirculation Line to Condensate Storage Tank	Relocate existing check valve and modify piping to bypass underground portion of piping with through wall leak. Bypassed piping was declassified.	10/5/2020	PLP00550617 Rev 1