



L-2024-007
10 CFR 55a
January 18, 2024

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

RE: Turkey Point Nuclear Plant Unit 4
Docket No. 50-251
Inservice Inspection Program
Owner's Activity Report (OAR-1)

Attached find the Owner's Activity Report (Form OAR-1), for Turkey Point Unit 4 (PTN4-34), Fifth Inservice Inspection Interval, Third Period, and IWE Third Interval, Second Period. The Form OAR-1, Owner's Activity Report, implements Code Case N-532-5.

Should you have any questions regarding this submission, please contact Mr. Kenneth Mack, Fleet Licensing Manager, at 561-904-3635.

Sincerely,

A handwritten signature in black ink, appearing to read 'Dianne Strand', is written over a horizontal line.

Dianne Strand
General Manager, Regulatory Affairs
Florida Power & Light Company

Enclosure

cc: USNRC Regional Administrator, Region II
USNRC Project Manager, Turkey Point Nuclear Plant, Units 3 and 4
USNRC Senior Resident Inspector, Turkey Point Nuclear Plant, Units 3 and 4

Florida Power & Light Company

9760 S.W. 3441" Street Homestead, FL 33035

Report Number: ISI-PTN-4-2023

Plant: Turkey Point Nuclear Power Plant Unit 4
9760 SW 344th Street
Homestead, Florida 33035

Commercial Service Date: September 7, 1973 Refueling Outage No.: PTN 4-34

Current Inspection Interval: ISI-Fifth and IWE-Third

Current Inspection Period: ISI Fifth Interval-Third and IWE Third Interval-Second

Edition and Addenda of Section XI applicable to the inspection plans: ISI Fifth Interval-2007 Edition through the 2008 Addenda and IWE Third Interval-2007 Edition through the 2008 Addenda

Date and Revision of inspection plans: ISI Fifth Interval Effective July 28, 2023, Rev.3 and IWE-July 15, 2018 Rev.0

Edition and Addenda of Section XI applicable to repairs and replacements, if different than the inspection plan: ASME Section XI 2007 Edition through 2008 Addenda.

Code Cases Used: N-532-5, N-731, N-729-6, N-798

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 PTN4-34 conform to the requirements of Section XI.

Signed *Ken Jacobson* ENGINEERING MANAGER Date 01/09/2024
Owner or Owner's Designee, Title

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 Connecticut, 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.

[Signature] Commissions NB 15648 I, N, R
Inspector's Signature National Board Number and Endorsement

Date 09Jan2023

<p style="text-align: center;">TABLE 1 ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE</p>		
<p>Examination Category and Item Number</p>	<p>Item Description</p>	<p>Evaluation Description</p>
<p>E-A E1.30</p>	<p>Moisture Barrier Degradation</p>	<p>AR02421997, AR02422598 and EC297448 Rev2 <u>Discovery:</u> Several areas were identified damaged on the moisture barrier located on the 14' elevation. During the repair phase of the moisture barrier, water was observed to be flowing out of the containment moisture barrier and pooling on the 14-foot elevation of the containment building. Chemical analysis confirmed that water in the moisture barrier was borated water. The source of the borated water was either from the refueling cavity or the spent fuel pool (SFP). The water was pumped from the moisture barrier after cavity drained down. <u>Conclusion:</u> An engineering analysis requested the entire moisture barrier to be removed, washed, and left removed to allow the joint to dry during the current run cycle. The moisture barrier was to be replaced during PTN 4-34, but during PT4-34, the refueling cavity liner in the lower portion of the refueling cavity was sealed with InstaCote™ML to determine if the liner in that section of the cavity was the source of the leakage. Engineering inspection during the outage verified that the moisture barrier area remained dry during PT4-34 confirming that the leakage</p>

TABLE 1 ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE		
Examination Category and Item Number	Item Description	Evaluation Description
		identified during the previous outage emanated from leakage past the lower cavity liner. Repairs of the lower cavity liner are planned to occur during PT4-35. EC297448 was revised to justify leaving the moisture barrier out for an additional cycle until repairs of the lower cavity complete. This will allow full confirmation that the refueling cavity repairs are effective in eliminating future borated water intrusion into inaccessible areas.

**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/A	4-285D	Replace Valve	10/11/2023	RR40660009-01/02
1/A	4P200B	Replace Pump Rotating Element, Studs and Nuts	10/18/2023	RR40802767-01
1/A	RV-4-551A	Replace Valve	10/08/2023	RR40829834-01
1/A	RV-4-551C	Replace Valve	10/22/2023	RR40829802-06
1/A	RV-4-551B	Replace Valve	10/08/2023	RR40829789-01
2/B	RV-4-1413	Replace Valve	10/10/2023	RR40858461-01
2/B	RV-4-1406	Replace Valve	10/09/2023	RR40829882-01
2/B	RV-4-1410	Replace Valve	10/09/2023	RR40829869-01
2/B	CV-4-2901	Repair Valve bonnet thread (Heli-Coil insert)	10/16/2023	RR40829433-05

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

Code Class	Item Description	Description Of Work	Date Completed	Repair/Replacement Plan Number
3/C	4P9C	Replace Pump	03/31/2023	RR40824276-01
3/C	4-50-311	Replace Check Valve and Expansion Joint	10/02/2023	RR40857433-01
3/C	4-50-331	Replace Check Valve and Expansion Joint	10/20/2023	RR40857434-01
3/C	RV-4-1423	Replace Valve and Bolting	10/21/2023	RR40953960-01
3/C	RV-4-1423	Replace Valve and Bolting	10/12/2023	RR40829887-01
MC	T4P32	Replace Containment Electrical Penetration	10/11/2023	RR40787277-04
MC	S209 (PEN-39)	Replace Blind Flange Studs	10/21/2023	RR40829801-02