



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

March 15, 2018

Mr. Mano Nazar
President and Chief Nuclear Officer
Nuclear Division
Florida Power & Light Company
Mail Stop: EX/JB
700 Universe Blvd.
Juno Beach, FL 33408

SUBJECT: TURKEY POINT NUCLEAR GENERATING STATION - NRC EVALUATION OF
CHANGES, TESTS, AND EXPERIMENTS REPORT NUMBER 05000250/2018010
AND 05000251/2018010

Dear Mr. Nazar:

On February 5, 2018, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Turkey Point Nuclear Generating Station Units 3 and 4, and the NRC inspectors discussed the results of this inspection with Robert Coffey and other members of your staff. The results of this inspection are documented in the enclosed report.

The NRC inspectors did not identify any finding or violation of more than minor significance.

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 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

/RA/

Marvin D. Sykes, Chief
Engineering Branch 1
Division of Reactor Safety

Docket Nos. 50-250, 50-251
License Nos. DPR-31 and DPR-41

Enclosure:
Inspection Report 05000250/2017007
and 05000251/2017007

cc: Distribution via ListServ

SUBJECT: TURKEY POINT NUCLEAR GENERATING STATION - NRC EVALUATION OF CHANGES, TESTS, AND EXPERIMENTS REPORT NUMBER 05000250/2018010 AND 05000251/2018010 dated March 15, 2018

Distribution:

R. Patterson, RII
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PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE
 ADAMS: Yes ACCESSION NUMBER: _____ SUNSI REVIEW COMPLETE FORM 665 ATTACHED

OFFICE	RII:DRS	RII:DRS	RII:DRS	RII:DRP	RII:DRS		
SIGNATURE	VIA EMAIL	VIA EMAIL	VIA EMAIL	RXM1	MDS		
NAME	N. MORGAN	T. SU	R. PATTERSON	R. MUSSER	M. SYKES		
DATE	3/7/2018	3/7/2018	3/8/2018	3/15/2018	3/13/2018		
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: S:\DRS NEWENGL BRANCH 1\BRANCH INSPECTION FILES\2017-2018-2019 CYCLE INSPECTION FOLDER FOR ALL SITES\50.59 INSPECTIONS\TURKEY POINT\TURKEY POINT 50.59 IR 2018010.DOCX

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

Docket Numbers: 050000250, 05000251

License Numbers: DPR-31 and DPR-41

Report Numbers: 05000250/2018010, 05000251/2018010

Enterprise Identifier: I-2018-010-0024

Licensee: Florida Power and Light

Facility: Turkey Point Nuclear Generating Station, Units 3 and 4

Location: 9760 S. W. 344th Street
Homestead, FL 33035

Inspection Dates: February 5-9, 2018

Inspectors: Robert Patterson, Reactor Inspector (Team Lead)
Teh-Chiun Su, Reactor Inspector
Nadiyah Morgan, Reactor Inspector

Approved By: M. Sykes, Chief
Engineering Branch 1
Division of Reactor Safety

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring Florida Power and Light's performance by conducting a 10 CFR 50.59 inspection at Turkey Point Nuclear Generating Station Units 3 and 4, 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.

No findings or more than minor violations were identified.

INSPECTION SCOPE

Inspections were conducted using the appropriate portions of the inspection procedure (IP) 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, conducted walkdowns and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

REACTOR SAFETY

71111.17T - Evaluations of Changes, Tests and Experiments (19 Samples)

The inspectors evaluated the following samples for compliance with Title 10, Code of Federal Regulations (CFR) 50.59, "Changes, tests, and experiments," from February 5, 2018, to February 9, 2018:

10 CFR 50.59 Evaluations - 71111.17T

1. 283382, Over Temperature and Over Power Rescaling
2. 281319, U3 Pressurizer Heater #11 Element Nozzle/Sleeve Repair
3. 282912, Turkey Point Unit 3 Cycle 28 Reload Design
4. 280401, U4 - RCP Seals Upgrade Project 003
5. 246870, Extended Power Uprate - Feedwater Regulating Valve Upgrade
6. 247017, U4 Replacement Of Beta Annunciator System

10 CFR 50.59 Screening/Applicability Determinations - 71111.17T

7. 0000241735, PCM-02045 Abandonment of Post-Accident Containment Ventilation and Hydrogen Recombiner Equipment
8. 0000242126, PCM-05063 AFW Pump 'B' Lube Oil Check Valve Replacement
9. 0000274860, Change Position of ICW/CCW Heat Exchanger Outlet Isolation Valves
10. 0000278231, New Support Installation on 1" Line FOR RV-3/4-747A/B WO 40197156-05

11. 0000283348, PTN Unit 3 - Reroute 3A RCP Control Cable Out of Fire Area H
12. 0000284156, Replace U3 Snubbers in U3CYC29
13. 0000242553, PCM-10035 Installation of U4 S/G Blowdown Isolation Valve Accumulators
14. 0000272691, U4 ICW/TPCW Header Isolation Valve Actuator Replacement
15. 0000278348, N-4-1403 and N-4-1405 Local Starter Replacements
16. 0000284188, 4P241A and 4P245A TOL Change
17. PCR 02112053, EDG Pressure Switch Calibration
18. PCR 02184758, EDG Governor Adjustment
19. PCR 02132361, CCW Flow Balance Procedure

EXIT MEETINGS AND DEBRIEFS

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

On February 9, 2018, the inspectors presented the inspection results to Mr. Robert Coffey, and other members of the licensee staff.

DOCUMENTS REVIEWED

Procedures

- EN-AA-203-1201, 10 CFR Applicability and 10 CFR 50.59 Screening Reviews, Rev. 12
- EN-AA-203-1202, 10 CFR 50.59 Evaluation, Rev. 1
- 0-OSP-040.19, Low Power Physics Testing, Rev. 5A
- 3-OSP-019.2, Intake Cooling Water System Flowpath Verification, Rev. 5
- 4-OSP-019.2, Intake Cooling Water System Flowpath Verification, Rev. 4
- 3-OSP-030.9, Component Cooling Water System Flow Balance, Rev. 6A
- 0-ADM-232, Time Critical Operator Action Program, Rev. 8
- 3-EOP-ES-1.4, EOP, Transfer to Hot Leg Recirculation, Rev. 4
- 3-ONOP-033.3, Accident Involving New or Spent Fuel, Rev. 7
- 4-ARP-097.DG, Diesel Generator Panel Annunciator Response Page 87, Dated 2/14/17
- 4-SMI-023.6, EDG Pressure Switch Calibration, Rev. 4
- 4-SMI-023.6, EDG Pressure Switch Calibration, Rev. 5
- EN-AA-205-1104, Standard Design Process, Rev. 0

Drawings

- 5610-J-844, S/G A Steam/Feed-water Flow Match Protection, Rev. 5
- 5613-E-26, Feed-water and Condensate Feed-water Check Valve, Sheet 22A, Rev. 3
- 5613-M-3074, Feed-water System, Sheet 3, Rev. 35
- 5614-M-16A-14, EDG 4K4B Fuel System, Sheet 1B, Rev., 4
- 5610-000-DB-001, Selected Licensing Issues, Rev. 21

Calculations

- 32-9221002, TP-3 Pressurizer Heater Sleeve Penetration Modification One Cycle Justification, Rev. 0
- PTN-3FJF-15-154, Turkey Point Unit 3 Cycle 28 – Technical Specifications Review, Rev. 0
- PTN-BFSM-02-015, AOV Program Steam Generator Blowdown Control Valve/Actuator Capability, Rev. 1
- PTN-3OHC-14-001, RCP A,B & C Seal Leak Off Pipe Stress Calculation, Rev. 9

CRs (Condition Reports)

02089524	02104882	02236913
02243589	02112053	02215220
02040372	02243596	02184758
02053850	02239726	
02132361	02191208	

UFSAR

UFSAR Section 4.2.2, Components
 UFSAR Section 4.2.13, References
 UFSAR Sections 7.2, 7.3, 7.4, 7.5 and 7.8

Work Orders

40125939-01	40526739-01	40518623-01
35003848-13	40523051-01	
35003848-07	40523050-01	

Miscellaneous Documents

NRC Safety Evaluation for the Turkey Point Relief Request No. 1, Rev. 1
 51-9220957, Corrosion Evaluation for Turkey Point Unit 3 Pressurizer Heater Sleeve Penetration Modification, Rev. 0
 NRC Safety Evaluation for the Turkey Point License Amendment Request regarding Optimized ZIRLO Fuel Rod Cladding Material
 NF-NEXT-15-189, Turkey Point Unit 3 Cycle 28 Safety Input Letter, Rev. 0
 MSP 05-063, AFW Pump "B" Lube Oil – Foot Valve Replacement
 NRC Safety Evaluation for the Turkey Point License Amendment Request regarding Snubbers PC/M 10-035, Installation of U4 S/G Blowdown Isolation Valve Accumulators, Rev. 9
 5614-M-313, Turkey Point Unit 4 Set Point List, Rev. 87
 CD-01.11 Document Status Report, Dated 01/30/2018
 CC-12808-1, CFC, Electric Motor Starter, Rev. 0
 Feed-water Control Using Yokogawa YS1700 Single Loop Controller, Application Design Description, Dated 4/22/14
 PC/M 02-045, Abandonment of Post-Accident Containment Vent & Hydrogen Re-combiner, R 0
 PC/M 02-045, Abandonment of Post-Accident Containment Ventilation and Hydrogen Re-combiner Equipment 50.59 evaluation, Rev. 0
 PCR 2112053, 4-SMI-023.6, EDG Pressure Switch Calibration, Rev. 0
 SPEC-IC-079, U3 and 4 Annunciator Replacement Software Specifications, Rev. 1
 YS1500 Indicating Controller, 3rd Edition
 WCAP-15603-NP, WOG 2000 RCP Seal Leakage Model (Non-Proprietary), Rev. 1

Corrective Action Documents Written as a Result of the Inspection

AR 2248526, Type In ECs 278348 and 278664
 AR 2248134, Unit 4 EDG Fuel Strainer DPS Alarm Set-point Change