June 20, 2025
L-2025-121
10 CFR 50.73

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

Re: Turkey Point Unit 4
Docket No. 50-251
Renewed Facility Operating License No. DPR-41
Reportable Event: 2025-02-01
Date of Event: March 13, 2025

Emergency Diesel Generator Actuation

The attached Licensee Event Report (LER), Turkey Point Unit 4 LER 2025-02-01, Emergency Diesel Generator Actuation, is being submitted pursuant to the requirements of 10 CFR 50.73(a)(2)(iv)(A), System Actuation.

This event did not have an adverse effect on the health and safety of the public.

Should you have any questions regarding this submission, please contact Maribel Valdez, Fleet Licensing Manager, at 561-904-5164.

This letter contains no new or modified regulatory commitments.

Sincerely,

Kenneth Mack

Kenneth A. Mack
Director, Licensing and Regulatory Compliance
Florida Power & Light Company

Attachment: Turkey Point Unit 4 LER 2025-02-00, Emergency Diesel Generator Actuation

cc: USNRC Regional Administrator, Region II
USNRC Project Manager, Turkey Point Nuclear Plant
USNRC Senior Resident Inspector, Turkey Point Nuclear Plant
Mr. Clark Eldredge, Florida Department of Health

Attachment

Turkey Point Unit 4 LER 2025-02-01

Turkey Point Unit 4 LER 2025-02-01, Emergency Diesel Generator Actuation

NRC FORM 366 (04-02-2024) U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0104 EXPIRES: 04/30/2027

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Library, and Information Collections Branch (T-6 A10M), U. S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by email to Infocollects.Resource@nrc.gov, and the OMB reviewer at: OMB Office of Information and Regulatory Affairs, (3150-0104), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503. The NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless the document requesting or requiring the collection displays a currently valid OMB control number.

LICENSEE EVENT REPORT (LER)

(See Page 2 for required number of digits/characters for each block)

(See NUREG-1022, R.3 for instruction and guidance for completing this form http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/)

1. Facility Name		2. Docket Number	3. Page
Turkey Point Unit 4	☒ 050 ☐ 052	00251	1 OF 2

4. Title
Emergency Diesel Generator Actuation

5. Event Date			6. LER Number			7. Report Date			8. Other Facilities Involved		
Month	Day	Year	Year	Sequential Number	Revision No.	Month	Day	Year	Facility Name	☐ 050	Docket Number
03	13	2025	2025	- 02 -	01	06	20	2025	N/A		
									Facility Name	☐ 052	Docket Number
									N/A		

9. Operating Mode	10. Power Level
6	0

11. This Report is Submitted Pursuant to the Requirements of 10 CFR §: *(Check all that apply)*

10 CFR Part 20	☐ 20.2203(a)(2)(vi)	**10 CFR Part 50**	☐ 50.73(a)(2)(ii)(A)	☐ 50.73(a)(2)(viii)(A)	☐ 73.1200(a)
☐ 20.2201(b)	☐ 20.2203(a)(3)(i)	☐ 50.36(c)(1)(i)(A)	☐ 50.73(a)(2)(ii)(B)	☐ 50.73(a)(2)(viii)(B)	☐ 73.1200(b)
☐ 20.2201(d)	☐ 20.2203(a)(3)(ii)	☐ 50.36(c)(1)(ii)(A)	☐ 50.73(a)(2)(iii)	☐ 50.73(a)(2)(ix)(A)	☐ 73.1200(c)
☐ 20.2203(a)(1)	☐ 20.2203(a)(4)	☐ 50.36(c)(2)	☑ 50.73(a)(2)(iv)(A)	☐ 50.73(a)(2)(x)	☐ 73.1200(d)
☐ 20.2203(a)(2)(i)	**10 CFR Part 21**	☐ 50.46(a)(3)(ii)	☐ 50.73(a)(2)(v)(A)	**10 CFR Part 73**	☐ 73.1200(e)
☐ 20.2203(a)(2)(ii)	☐ 21.2(c)	☐ 50.69(g)	☐ 50.73(a)(2)(v)(B)	☐ 73.77(a)(1)	☐ 73.1200(f)
☐ 20.2203(a)(2)(iii)		☐ 50.73(a)(2)(i)(A)	☐ 50.73(a)(2)(v)(C)	☐ 73.77(a)(2)(i)	☐ 73.1200(g)
☐ 20.2203(a)(2)(iv)		☐ 50.73(a)(2)(i)(B)	☐ 50.73(a)(2)(v)(D)	☐ 73.77(a)(2)(ii)	☐ 73.1200(h)
☐ 20.2203(a)(2)(v)		☐ 50.73(a)(2)(i)(C)	☐ 50.73(a)(2)(vii)		

☐ **OTHER** (Specify here, in abstract, or NRC 366A).

12. Licensee Contact for this LER

Licensee Contact	Phone Number (Include area code)
Bob Murrell	319-651-9496

13. Complete One Line for each Component Failure Described in this Report

Cause	System	Component	Manufacturer	Reportable to IRIS		Cause	System	Component	Manufacturer	Reportable to IRIS
X	FA	RLY	GE	Y						

14. Supplemental Report Expected		15. Expected Submission Date	Month	Day	Year
☑ No	☐ Yes (If yes, complete 15. Expected Submission Date)				

16. Abstract (Limit to 1326 spaces, i.e., approximately 13 single-spaced typewritten lines)

At 1847 EDT on March 13, 2025, while at zero percent power and in Mode 6, Turkey Point Unit 4 Startup Transformer (SUT) [EIIS: EA] feeder breaker, 4AB05 [EIIS: EB], tripped while supplying power to the 4B 4kV Switchgear. At the time of the breaker trip, the unit was in a planned refueling outage with the 4A 4kV Switchgear out-of-service for planned breaker replacements. The breaker trip was caused by a spurious trip signal from the bus differential current interposing protective relay, 94/HFA53K91H [EIIS: FA] which caused the breaker to open. This resulted in a momentary de-energization of the 4B 4kV Bus. As designed, the 4B Emergency Diesel Generator (EDG) [EIIS: EK] and 4B Sequencer responded automatically to restore power to the 4B 4kV Bus. At the time of the feeder breaker trip, the site inaccurately classified the event as an Unusual Event under the loss of offsite power criteria, which was later retracted under Event Notification (EN) 57603. Due to the automatic start of the 4B EDG, this event is being reported pursuant to 10 CFR 50.73(a)(2)(iv)(A), System Actuation.

LICENSEE EVENT REPORT (LER) CONTINUATION SHEET

(See NUREG-1022, R.3 for instruction and guidance for completing this form http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/)

1. FACILITY NAME		2. DOCKET NUMBER	3. LER NUMBER		
			YEAR	SEQUENTIAL NUMBER	REV NO.
Turkey Point Unit 4	■ 050 ☐ 052	00251	2025	- 02	- 01

NARRATIVE

Description of Event:

At 1847 EDT on March 13, 2025, while at zero percent power and in Mode 6, Turkey Point Unit 4 Startup Transformer (SUT) [EIIS: EA] feeder breaker, 4AB05 [EB], tripped while supplying power to the 4B 4kV Switchgear. At the time of the breaker trip, the unit was in a planned refueling outage with the 4A 4kV Switchgear out-of-service for planned breaker replacements. The breaker trip was caused by a spurious trip signal from the bus differential current interposing protective relay, 94/HFA53K91H [EIIS: FA] which caused the breaker to open. This resulted in a momentary de-energization of the 4B 4kV Bus. As designed, the 4B Emergency Diesel Generator (EDG) [EIIS: EK] and 4B Sequencer responded automatically to restore power to the 4B 4kV Bus.

There were no structures, systems, or components inoperable at the start of the event that contributed to the event other than the 4A 4kV bus.

Cause of Event:

An interposing relay (94/HFA53K91H) in the Unit 4 SUT feeder breaker, 4AB05 trip circuit scheme spuriously actuated causing breaker 4AB05 to open. The spurious actuation was caused by a cable short-circuit between switchyard lock-out relays and interposing relay 94/HFA53K91H.

Analysis of Event:

The safety significance of this event is minimal based on having more than one emergency power source available (4B EDG and D bus station blackout tie) to perform the safety function of providing emergency power to the 4B 4 kV bus. This event did not challenge maintaining safe shutdown conditions, remove residual heat, control the release of radioactive material, or mitigate the consequences of an accident.

This event is being reported pursuant to 10 CFR 50.73(a)(2)(iv)(A), System Actuation.

This event did not result in a Safety System Functional Failure.

Corrective Actions:

The issue was corrected by lifting leads and electrically isolating relay 94/HFA53K91H from breaker 4AB05 protection scheme which removed the locked-in trip signal.

Actions Planned:

Actions are planned to replace the cable from the switchyard to relay 94/HFA53K91H to reduce the probability of future events. In addition, actions are planned to address any potential extent of condition issues.

Similar Events:

A review of events over the past 5 years did not identify any similar events with the same cause as this event.