



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION I
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

August 24, 2021

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

SUBJECT: SEABROOK STATION, UNIT NO. 1 – EMERGENCY PREPAREDNESS
BIENNIAL EXERCISE INSPECTION REPORT 05000443/2021501

Dear Mr. Coffey:

On August 13, 2021, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Seabrook Station, Unit No. 1 and discussed the results of this inspection with Mr. Robert Harrsch, Operations Director 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,

Fred L. Bower, III, Chief
Security, Emergency Preparedness and
Incident Response Branch
Division of Radiological Safety and Security

Docket No. 05000443
License No. NPF-86

Enclosure:
As stated

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SUBJECT: SEABROOK STATION, UNIT NO. 1 – EMERGENCY PREPAREDNESS
 BIENNIAL EXERCISE INSPECTION REPORT 05000443/2021501 DATED
 AUGUST 24, 2021

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

Docket Number: 05000443

License Number: NPF-86

Report Number: 05000443/2021501

Enterprise Identifier: I-2021-501-0009

Licensee: Florida Power & Light Company

Facility: Seabrook Station, Unit No. 1

Location: Seabrook, New Hampshire

Inspection Dates: August 09, 2021 to August 13, 2021

Inspectors: J. Rady, Senior Emergency Preparedness Inspector
J. DeBoer, Reactor Inspector
J. Schoppy, Senior Reactor Inspector
S. Seeley, Health Physicist

Approved By: Fred L. Bower, III, Chief
Security, Emergency Preparedness and
Incident Response Branch
Division of Radiological Safety and Security

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting an emergency preparedness biennial exercise inspection at Seabrook Station, Unit No. 1, 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

None.

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), inspectors were directed to begin telework. In addition, 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

71114.01 - Exercise Evaluation

Inspection Review (IP Section 02.01-02.09) (1 Sample)

- (1) The inspectors evaluated the biennial emergency plan exercise at Seabrook, Unit 1. As a result of the 2020 COVID-19 Public Health Emergency, NextEra Energy Seabrook, LLC (NextEra) requested and received an exemption to reschedule the onsite portion of their 2020 biennial emergency preparedness exercise as conducted in accordance with 10 CFR Part 50, Appendix E, Section IV.F.2.b (ML20338A493). This was approved on December 21, 2020 (ML20345A119). The exercise scenario simulated fuel damage from a broken reactor coolant pump impeller transported to the core, a steam generator tube rupture, and a stuck open main steam line safety valve. NextEra onsite emergency responders also participated in a simulated large-scale fire exercise scenario which damaged the control building causing a major loss of plant control systems in order to demonstrate the extensive damage mitigation guidelines described in Title 10 of the *Code of Federal Regulations* (10 CFR) 50.155(b)(2) as required by 10 CFR Part 50, Appendix E.IV.F.2.j on August 10, 2021.

71114.04 - Emergency Action Level and Emergency Plan Changes

Inspection Review (IP Section 02.01-02.03) (1 Sample)

- (1) The inspectors evaluated the following submitted Emergency Action Level and Emergency Plan changes.
 - CRC# 2353, SSREP, Seabrook Station Radiological Emergency Plan, Revision 77

This evaluation does not constitute NRC approval.

71114.08 - Exercise Evaluation Scenario Review

Inspection Review (IP Section 02.01 - 02.03) (1 Sample)

- (1) The inspectors reviewed and evaluated the proposed scenario for biennial emergency plan exercise on June 30, 2021.

OTHER ACTIVITIES – BASELINE

71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

EP01: Drill/Exercise Performance (DEP) Sample (IP Section 02.12) (1 Sample)

- (1) October 1, 2020 - June 30, 2021

EP02: Emergency Response Organization (ERO) Drill Participation (IP Section 02.13) (1 Sample)

- (1) October 1, 2020 - June 30, 2021

EP03: Alert And Notification System (ANS) Reliability Sample (IP Section 02.14) (1 Sample)

- (1) October 1, 2020 - June 30, 2021

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

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

- On August 13, 2021, the inspectors presented the emergency preparedness biennial exercise inspection results to Mr. Robert Harsch, Operations Director and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71114.01	Miscellaneous	21 TTX	Seabrook 10 CFR 50.155(b)(2) Table Top Exercise Scenario Package for August 10, 2021	
		CFE 21-03	Seabrook Biennial Exercise Scenario Package for August 11, 2021	
		ML20338A493	Seabrook Station One-Time Exemption Request for the Biennial Emergency Preparedness Exercise Requirements of 10 CFR 50, Appendix E. IV.F.2.b and IV.F.2.c	12/3/2020
		ML20345A119	Seabrook Station, Unit No. 1 – Exemption from Requirements of 10 CFR Part 50, Appendix E, Sections IV.F.2.B and IV.F.2.C (EPID L-2020-LLE-0229 and EPID L-2020-LLE-0230 [COVID-19])	12/21/2020