



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION I
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

August 24, 2020

Mr. Don Moul
Vice President, Nuclear Division and
Chief Nuclear Officer
Florida Power & Light Company
NextEra Energy Seabrook, LLC
Mail Stop: NT3/JW
15430 Endeavor Drive
Jupiter, FL 33478

SUBJECT: SEABROOK STATION, UNIT NO. 1 – TRIENNIAL FIRE PROTECTION
INSPECTION REPORT 05000443/2020011

Dear Mr. Moul:

On August 13, 2020, 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. Eric McCartney, Site Vice President 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,

X /RA/

Signed by: Glenn T. Dentel

Glenn T. Dentel, Chief
Engineering Branch 2
Division of Reactor Safety

Docket No. 05000443
License No. NPF-86

D. Moul

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Enclosure:
As stated

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SUBJECT: SEABROOK STATION, UNIT NO. 1 – TRIENNIAL FIRE PROTECTION INSPECTION REPORT 05000443/2020011 DATED AUGUST 24, 2020

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

Docket Number: 05000443

License Number: NPF-86

Report Number: 05000443/2020011

Enterprise Identifier: I-2020-011-0021

Licensee: NextEra Energy Seabrook, LLC

Facility: Seabrook Station, Unit No. 1

Location: Seabrook, NH

Inspection Dates: July 27, 2020 to August 13, 2020

Inspectors: C. Bickett, Senior Reactor Inspector
L. Dumont, Reactor Inspector
M. Patel, Senior Reactor Inspector

Approved By: Glenn T. Dentel, Chief
Engineering Branch 2
Division of Reactor Safety

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a triennial fire protection 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.

REACTOR SAFETY

71111.21N.05 - Fire Protection Team Inspection (FPTI)

SSC Credited for Fire Prevention, Detection, Suppression, or Post-Fire SSD Review (IP Section 03.01) (4 Samples)

The inspectors verified that the following systems credited in the approved fire protection program could perform their licensing basis function:

- (1) Fire Protection Water Supply System
- (2) Residual Heat Removal System
- (3) Chemical and Volume Control System
- (4) Fire Detection System

Fire Protection Program Administrative Controls (IP Section 03.02) (2 Samples)

The inspectors verified that the following fire protection program administrative controls were implemented in accordance with the current licensing basis:

- (1) Combustible Control Program
- (2) Fire Brigade Training, Drills, and Qualifications

Fire Protection Program Changes/Modifications (IP Section 03.03) (1 Sample)

The inspectors reviewed the following changes to ensure that they did not constitute an adverse effect on the ability to safely shutdown post-fire and to verify that fire protection program documents and procedures affected by the changes were updated.

- (1) EC 290816, 285885, 290216 – Appendix R Evaluation of Reactor Trip Capability for a Fire in 'A' Essential Switchgear

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, 2020, the inspectors presented the triennial fire protection inspection results to Mr. Eric McCartney, Site Vice President and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.21N.05	Calculations	C-S-1-80801	Appendix R Timing Calculations for Decay Heat Removal	2
		C-S-1-84019	Appendix R Timing Calculations for Reactor Coolant Pressure Control	1
		C-S-1-84213	Appendix R Timing Calculations for Reactor Coolant Inventory Control	2
		C-S-1-84214	Appendix R Timing Calculations for Reactivity Control	0
	Corrective Action Documents	AR 02329815		
		AR 02329817		
		AR 02363223		
		AR 02363234		
		AR 02363339		
	Corrective Action Documents Resulting from Inspection	AR 02363880		
		AR 02363938		
		AR 02364079		
		AR 02364099		
		AR 02364481		
		AR 02364484		
		AR 02364558		
		AR 02365147		
		AR 02365206		
		AR 02365234		
	AR 02365235			
	Engineering Changes	EC 271103	Evaluation of Main Fire Pump and Tank Capacities	
		EC 290437	Motor Replacement on RC-V-23, RHR Inlet Isolation Valve	
		EC 290816	Appendix R Evaluation of Reactor Trip Capability for a Fire in Train A Essential Switchgear	
EC 291002		Approval for DG Building 21' Elevation Smoke Detector Sensitivity Value		
Engineering Evaluations	EE-05-033	Fire Brigade Response Time to a Charcoal Filter Fire	0	
	EE-93-041	Fire Detector Inspection Frequencies	08/26/1993	

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Miscellaneous	SS-EV-970011	Combustible Materials Storage Containers	0
			Seabrook Station Evaluation and Comparison to BTP APCS 9.5-1, Appendix A	17
			Seabrook Station Fire Protection of Safe Shutdown Capability (10 CFR 50 Appendix R)	16
		AR 68280	Station Evaluation of Regulatory Issue Summary 2006-10 Regulatory Expectations with Appendix R Paragraph III.G.2 Operator Manual Actions	
	Procedures	FP-CP-577	Fire Protection Main Fire Panel Local Alarm Response and Response to a Fire/Fire Alarm Outside PA	1
		FP2.2	Control of Combustible Materials	23
		FP3.1	Fire Protection Maintenance and Surveillance Testing	7
		FP4.1	Fire Protection Program Training and Qualifications	11
		FP5.1	Fire Brigade Response	7
		FP6.1	Fire Protection Inspection and Logs	4
		LS0565.01	Fuse Control	5
		OS1200.00	Response to Fire or Fire Alarm Actuation	25
		OS1200.01	Safe Shutdown and Cooldown from the Main Control Room	25
		OS1200.02	Safe Shutdown and Cooldown from the Remote Safe Shutdown Facilities	24
		OS1200.02A	Remote Safe Shutdown Control - Train A	20
		OS1200.02B	Remote Safe Shutdown Control - Train B	21
		SM7.20	Control of Time Critical Operator Actions and Time Sensitive Actions	14