



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

February 28, 2012

Mr. Paul Freeman  
Site Vice President  
c/o Michael O'Keefe  
Seabrook Station  
NextEra Energy Seabrook, LLC  
P.O. Box 300  
Seabrook, NH 03874

SUBJECT: SEABROOK STATION, UNIT NO. 1 - ISSUANCE OF AMENDMENT RE:  
REMOVAL OF LOCATIONS SPECIFIED IN TECHNICAL SPECIFICATION  
3.3.3.5, "REMOTE SHUTDOWN SYSTEM" (TAC NO. ME7620)

Dear Mr. Freeman:

The Commission has issued the enclosed Amendment No. 130 to Facility Operating License No. NPF-86 for the Seabrook Station, Unit No. 1 (Seabrook). This amendment consists of changes to the Technical Specifications (TSs) in response to your application dated November 17, 2011.

The amendment revises TS 3.3.3.5, "Remote Shutdown System," Table 3.3-9 by removing the location information of transfer switches, control circuits, and instruments.

A copy of our safety evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly *Federal Register* notice.

Sincerely,

A handwritten signature in black ink, appearing to read "John G. Lamb".

John G. Lamb, Senior Project Manager  
Plant Licensing Branch I-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-443

Enclosures:

1. Amendment No.130 to NPF-86
2. Safety Evaluation

cc w/encls: Distribution via Listserv



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

NEXTERA ENERGY SEABROOK, LLC, ET AL.\*

DOCKET NO. 50-443

SEABROOK STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 130  
License No. NPF-86

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment filed by NextEra Energy Seabrook, LLC, et al., (the licensee) dated November 17, 2011, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance: (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

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\*NextEra Energy Seabrook, LLC is authorized to act as agent for the: Hudson Light & Power Department, Massachusetts Municipal Wholesale Electric Company, and Taunton Municipal Light Plant and has exclusive responsibility and control over the physical construction, operation and maintenance of the facility.

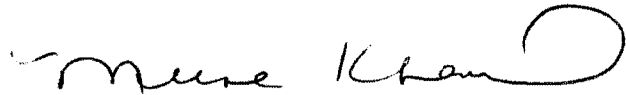
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-86 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 130 , and the Environmental Protection Plan contained in Appendix B are incorporated into the Facility License No. NPF-86. NextEra Energy Seabrook, LLC shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of its date of issuance and shall be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION



Meena Khanna, Chief  
Plant Licensing Branch I-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Attachment: Changes to the License and  
Technical Specifications

Date of Issuance: February 28, 2012

ATTACHMENT TO LICENSE AMENDMENT NO. 130

FACILITY OPERATING LICENSE NO. NPF-86

DOCKET NO. 50-443

Replace the following page of Facility Operating License No. NPF-86 with the attached revised page. The revised page is identified by amendment number and contains a marginal line indicating the area of change.

Remove  
3

Insert  
3

Replace the following pages of the Appendix A, Technical Specifications, with the attached revised pages as indicated. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Remove  
3/4 3-47  
3/4 3-48

Insert  
3/4 3-47  
3/4 3-48

- (4) NextEra Energy Seabrook, LLC, pursuant to the Act and 10 CFR 30, 40, and 70, to receive, possess, and use at any time any byproduct, source, and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
- (5) NextEra Energy Seabrook, LLC, pursuant to the Act and 10 CFR 30, 40, and 70, to receive, possess, and use in amounts as required any byproduct, source, or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components;
- (6) NextEra Energy Seabrook, LLC, pursuant to the Act and 10 CFR 30, 40, and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility authorized herein; and
- (7) DELETED

C. This license shall be deemed to contain and is subject to the conditions specified in the Commission's regulations set forth in 10 CFR Chapter I and is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; is subject to the additional conditions specified or incorporated below:

(1) Maximum Power Level

NextEra Energy Seabrook, LLC, is authorized to operate the facility at reactor core power levels not in excess of 3648 megawatts thermal (100% of rated power).

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No.130 \*, and the Environmental Protection Plan contained in Appendix B are incorporated into the Facility License No. NPF-86. NextEra Energy Seabrook, LLC shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

(3) License Transfer to FPL Energy Seabrook, LLC\*\*

- a. On the closing date(s) of the transfer of any ownership interests in Seabrook Station covered by the Order approving the transfer, FPL Energy Seabrook, LLC\*\*, shall obtain from each respective transferring owner all of the accumulated decommissioning trust funds for the facility, and ensure the deposit of such funds and additional funds, if necessary, into a decommissioning trust or trusts for Seabrook Station established by FPL Energy Seabrook, LLC\*\*, such that the amount of such funds deposited meets or exceeds the amount required under 10 CFR 50.75 with respect to the interest in Seabrook Station FPL Energy Seabrook, LLC\*\*, acquires on such dates(s).

\* Implemented

\*\* On April 16, 2009, the name "FPL Energy Seabrook, LLC" was changed to "NextEra Energy Seabrook, LLC".

TABLE 3.3-9

REMOTE SHUTDOWN SYSTEM

<u>INSTRUMENT</u>	<u>TOTAL NO. OF CHANNELS</u>	<u>MINIMUM CHANNELS OPERABLE</u>
1. Intermediate Range Neutron Flux	2	1
2. Source Range Neutron Flux	2	1
3. Reactor Coolant Temperature - Wide Range for Loops 1 and 4		
a. T <sub>c</sub>	2	2
b. T <sub>H</sub>	2	2
4. Pressurizer Pressure	2	2
5. Pressurizer Level	2	2
6. Steam Generator Pressure	1/stm. gen.	1/stm. gen.
7. Steam Generator Water Level	1/stm. gen.	1/stm. gen.
8. Steam Generator-Emergency Feedwater Flow Rate	1/stm. gen.	1/stm. gen.
9. Boric Acid Tank Level	1/tank	1/tank

TRANSFER SWITCHES/CONTROL CIRCUITS

1. Emergency Feedwater Pump Steam Supply Valves MS-V-393
2. Emergency Feedwater Pump Steam Supply Valves MS-V-394
3. Emergency Feedwater Pump Steam Supply Valves MS-V-395
4. Emergency Feedwater Pump FW-P-37B
5. Emergency Feedwater Recirculation Valve FW-V-346
6. Emergency Feedwater Recirculation Valve FW-V-347
7. SG A EFW Control Valve FW-FV-4214 A
8. SG A EFW Control Valve FW-FV-4214 B
9. SG B EFW Control Valve FW-FV-4224 A
10. SG B EFW Control Valve FW-FV-4224 B
11. SG C EFW Control Valve FW-FV-4234 A
12. SG C EFW Control Valve FW-FV-4234 B
13. SG D EFW Control Valve FW-FV-4244 A
14. SG D EFW Control Valve FW-FV-4244 B
15. SG A Atmospheric Relief Valve MS-PV-3001
16. SG B Atmospheric Relief Valve MS-PV-3002
17. SG C Atmospheric Relief Valve MS-PV-3003

TABLE 3.3-9 (Continued)  
REMOTE SHUTDOWN SYSTEM

TRANSFER SWITCHES/CONTROL CIRCUITS

18. SG D Atmospheric Relief Valve MS-PV-3004
19. MS Isolation Valves MS-V-86/88/90/92
20. Not Used
21. Pressurizer Heaters, Group A
22. Pressurizer Heaters, Group B
23. Charging Pump CS-P-2A
24. Charging Pump CS-P-2B
25. Charging Pump Suction from RWST CS-LCV-112D
26. Charging Pump Suction from RWST CS-LCV-112E
27. Pressurizer Relief Valve (PORV) RC-PCV-456A
28. Pressurizer Relief Valve (PORV) RC-PCV-456B
29. PORV Block Valve RC-V-122
30. PORV Block Valve RC-V-124
31. High Pressure Injection SI-V-138
32. High Pressure Injection SI-V-139
33. VCT Discharge Isolation Valve CS-LCV-112B
34. VCT Discharge Isolation Valve CS-LCV-112C



UNITED STATES  
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WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 130

TO FACILITY OPERATING LICENSE NO. NPF-86

SEABROOK STATION, UNIT NO. 1

DOCKET NO. 50-443

1.0 INTRODUCTION

By letter dated November 17, 2011 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML11327A011), NextEra Energy Seabrook, LLC (NextEra or the licensee) submitted license amendment request (LAR) LAR 11-09 to revise the Technical Specifications (TSs) for Seabrook Station, Unit No. 1 (Seabrook). The proposed amendment would revise TS 3.3.3.5, "Remote Shutdown System," Table 3.3-9 by removing the location information of transfer switches, control circuits, and instruments.

2.0 REGULATORY EVALUATION

Title 10 of the *Code of Federal Regulations* (10 CFR) Section 50.36 establishes the regulatory requirements for TS content. 10 CFR 50.36 requires that TS include items in the following specific categories: (1) safety limits, limiting safety system settings and limiting control settings; (2) limiting conditions for operation (LCOs); (3) surveillance requirements (SRs); (4) design features; (5) administrative controls; (6) decommissioning; (7) initial notification; and (8) written reports. However, the rule does not specify the format and content for TS categories.

10 CFR 50.36(c)(2)(ii) states:

A technical specification limiting condition for operation of a nuclear reactor must be established for each item meeting one or more of the following criteria:

(A) Criterion 1. Installed instrumentation that is used to detect and indicate in the control room a significant abnormal degradation of the reactor coolant pressure boundary.

(B) Criterion 2. A process variable, design feature, or operating restriction that is an initial condition of a design basis accident or transient analysis that either assumes the failure of or presents a challenge to the integrity of a fission product barrier.

(C) Criterion 3. A structure, system, or component that is part of the primary success path and which functions or actuates to mitigate a design basis accident or transient that either assumes the failure of or presents a challenge to the integrity of a fission product barrier.



(D) Criterion 4. A structure, system, or component which operating experience or probabilistic risk assessment has shown to be significant to public health and safety.

### 3.0 TECHNICAL EVALUATION

In Section 3.0 of the application, the licensee's technical analysis stated:

The removal of the location information currently specified in Table 3.3-9 does not change the intent of TS 3.3.3.5, Remote Shutdown Systems. Eliminating the location information allows NextEra to enhance the design of Seabrook Station under the design control program without unnecessarily expending NextEra and NRC resources to process license amendments to revise the location information presently included in TS Table 3.3-9.

The proposed change would remove the specific location listed in TS 3.3.3.5, Remote Shutdown Systems, Table 3.3-9 for transfer switches / control circuits and instruments. The requirements in the TS would not change with the removal of the location information and would allow Next Era to enhance the design of Seabrook Station under the design control program without the undue burden of seeking future administrative changes to TS Table 3.3-9.

The licensee proposes to delete the location column (as shown below) in TS Table 3.3-9 for the following instruments:

<u>INSTRUMENT</u>	<u>LOCATION</u>
1. Intermediate Range Neutron Flux	CP-108 A and B
2. Source Range Neutron Flux	CP-108 A and B
3. Reactor Coolant Temperature - Wide Range for Loops 1 and 4	CP-108 A and B
a. $T_C$	
b. $T_H$	
4. Pressurizer Pressure	CP-108 A and B
5. Pressurizer Level	CP-108 A and B
6. Steam Generator Pressure	CP-108 A and B
7. Steam Generator Water Level	CP-108 A and B
8. Steam Generator-Emergency Feedwater Flow Rate	CP-108 A and B
9. Boric Acid Tank Level	CP-108 A and B

The licensee proposes to delete the location column (as shown below) in TS Table 3.3-9 for the following transfer switches and control circuits:

<u>TRANSFER SWITCHES/CONTROL CIRCUITS</u>	<u>LOCATION</u>
1. Emergency Feedwater Pump Steam Supply Valves MS-V-393	CP-108 A
2. Emergency Feedwater Pump Steam Supply Valves MS-V-394	CP-108 B
3. Emergency Feedwater Pump Steam Supply Valves MS-V-395	CP-108 A and B
4. Emergency Feedwater Pump FW-P-37B	Bus 6 SWGR
5. Emergency Feedwater Recirculation Valve FW-V-346	CP-108 A
6. Emergency Feedwater Recirculation Valve FW-V-347	CP-108 B

<u>TRANSFER SWITCHES/CONTROL CIRCUITS</u>	<u>LOCATION</u>
7. SG [Steam Generator] A EFW [Emergency Feedwater] Control Valve FW-FV-4214A	CP-108 A
8. SG A EFW Control Valve FW-FV-4214B	CP-108 B
9. SG B EFW Control Valve FW-FV-4224A	CP-108 A
10. SG B EFW Control Valve FW-FV-4224B	CP-108 B
11. SG C EFW Control Valve FW-FV-4234A	CP-108 A
12. SG C EFW Control Valve FW-FV-4234B	CP-108 B
13. SG D EFW Control Valve FW-FV-4244A	CP-108 A
14. SG D EFW Control Valve FW-FV-4244B	CP-108 B
15. SG A Atmospheric Relief Valve MS-PV-3001	CP-108 A
16. SG B Atmospheric Relief Valve MS-PV-3002	CP-108 B
17. SG C Atmospheric Relief Valve MS-PV-3003	CP-108 A
18. SG D Atmospheric Relief Valve MS-PV-3004	CP-108 B
19. MS [Main Steam] Isolation Valves MS-V-86/88/90/92	CP-108 A
20. MS Isolation Valves MS-V-86/88/90/92	CP-108 B
21. Pressurizer Heaters, Group A	CP-108 A
22. Pressurizer Heaters, Group B	CP-108 B
23. Charging Pump CS-P-2A	Bus 5 SWGR
24. Charging Pump CS-P-2B	Bus 6 SWGR
25. Charging Pump Suction from RWST [Refueling Water Storage Tank] CS-LCV-112D	CP-108 A
26. Charging Pump Suction from RWST CS-LCV-112E	CP-108 B
27. Pressurizer Relief Valve (PORV) RC-PCV-456A	CP-108 A
28. Pressurizer Relief Valve (PORV) RC-PCV-456B	CP-108 B
29. PORV Block Valve RC-V-122	CP-108 A
30. PORV Block Valve RC-V-124	CP-108 B
31. High Pressure Injection SI-V-138	CP-108 A
32. High Pressure Injection SI-V-139	CP-108 B
33. VCT [Volume Control Tank] Discharge Isolation Valve CS-LCV-112B	CP-108 A
34. VCT Discharge Isolation Valve CS-LCV-112C	CP-108 B

The U.S. Nuclear Regulatory Commission (NRC) staff reviewed the licensee's technical analysis of the proposed change to the Remote Shutdown System TS against the requirements in 10 CFR 50.36. The NRC staff determined that the location for the remote shutdown system instruments, transfer switches, and control circuits does not satisfy any of the criteria in 10 CFR 50.36 for LCOs required to be maintained in the TSs. In addition, the NRC staff also determined that the proposed change would not change the LCO, conditions, required actions or SRs in TS 3.3.3.5 for Seabrook Station and that they are consistent with the requirements in NUREG-1431, "Standard Technical Specifications Westinghouse Plants." Therefore, the NRC staff concludes that: (1) the instruments, transfer switches, and control circuits included in TS 3.3.3.5, "Remote Shutdown System," remains unchanged, (2) 10 CFR 50.36 will continue to be met, and (3) the proposed change is acceptable.

#### Editorial Change

It was noted that No. 20 above is identical to No. 19; therefore, No. 20 is being replaced with "Not Used." The NRC staff concludes that this editorial change is acceptable.

#### 4.0 STATE CONSULTATION

In accordance with the Commission's regulations, the New Hampshire and Massachusetts State officials were notified of the proposed issuance of the amendment. The State officials provided no comments.

#### 5.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to the installation or use of facility components located within the restricted area as defined in 10 CFR Part 20 and changes SRs. The NRC staff has determined that the amendment involves no significant increase in the amounts and no significant change in the types of any effluents that may be released offsite and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (76 FR 80976). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendments.

#### 6.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner; (2) there is reasonable assurance that such activities will be conducted in compliance with the Commission's regulations; and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: Kristy Bucholtz and John G. Lamb

Date: February 28, 2012

February 28, 2012

Mr. Paul Freeman  
Site Vice President  
c/o Michael O'Keefe  
Seabrook Station  
NextEra Energy Seabrook, LLC  
P.O. Box 300  
Seabrook, NH 03874

SUBJECT: SEABROOK STATION, UNIT NO. 1 - ISSUANCE OF AMENDMENT RE:  
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3.3.3.5, "REMOTE SHUTDOWN SYSTEM" (TAC NO. ME7620)

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A copy of our safety evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly *Federal Register* notice.

Sincerely,

*/ra/*

John G. Lamb, Senior Project Manager  
Plant Licensing Branch I-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-443

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2. Safety Evaluation

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ADAMS Accession No.: ML113620228

\*via memorandum

OFFICE	LPL1-2/PM	LPL1-2/LA	ITSB/BC	OGC – (NLO subject to edits & issuance check of 2/28/12)	LPL1-2/BC
NAME	JLamb	ABaxter	RElliott*	AGhosh	MKhanna
DATE	2/2/2012	01/19/2012	12/7/2011	2/2/2012	2/28/12

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