



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

March 6, 2018

Mr. Robert Craven
Plant General Manager
NextEra Energy Point Beach, LLC
6610 Nuclear Road
Two Rivers, WI 54241

SUBJECT: SUMMARY REPORT FOR NRC AUDIT FOR POINT BEACH NUCLEAR PLANT,
UNITS 1 AND 2, LICENSE AMENDMENT REQUEST TO RESOLVE
NONCONFORMANCE RELATING TO CONTAINMENT DOME TRUSS
(EPID L-2017-LLA-0209)

Dear Mr. Coffey:

By letter dated March 31, 2017 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML 17090A511), NextEra Energy Point Beach, LLC (NextEra, the licensee) submitted a license amendment request (LAR) for the Point Beach Nuclear Plant (PBNP), Units 1 and 2. The proposed amendment uses a risk-informed resolution strategy to resolve legacy design code non-conformances associated with construction trusses in the containment buildings of PBNP, Units 1 and 2.

The U.S. Nuclear Regulatory Commission (NRC) staff reviewed the licensee's submittal and determined that a regulatory audit would assist in the timely completion of the subject license amendment request review process. The NRC staff developed a request for information needed to conduct the audit. The initial request for technical information was provided to the licensee via email sent on October 30, 2017 (ADAMS Accession No. ML 17307A040). A follow up public teleconference was held on November 14, 2017 (ADAMS Accession No. ML 17311A084), to discuss the requested technical information.

The NRC staff conducted the audit on November 29 and 30, 2017, at the NextEra office in Jupiter, Florida. The staff noted that upon completion of the audit, the draft requests for additional information (RAIs) would be revised, as necessary, and issued as final, and the licensee would be expected to provide the needed information on the docket. The results of the audit were used by the NRC staff to finalize and transmit RAIs on January 31, 2018 (ADAMS Accession No. ML18025C043).

The audit summary report is provided as an enclosure to this letter.

R. Craven

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If you have any questions, please contact me at (301) 415-8371 or Mahesh.Chawla@nrc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mahesh Chawla', with a stylized flourish at the end.

Mahesh Chawla, Project Manager
Plant Licensing Branch III
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-266 and 50-301

Enclosure:
Audit Summary Report

cc: ListServ



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**AUDIT SUMMARY REPORT FOR POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2,
LICENSE AMENDMENT REQUEST TO RESOLVE NONCONFORMANCES
RELATING TO CONTAINMENT DOME TRUSS
DOCKET NOS. 50-266 AND 50-301
EPID L-2017-LLA-0209**

1.0 INTRODUCTION

By letter dated March 31, 2017 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML 17090A511), NextEra Energy Point Beach, LLC (NextEra, the licensee) submitted a license amendment request (LAR) for the Point Beach Nuclear Plant (PBNP), Units 1 and 2. The proposed amendment uses a risk-informed resolution strategy to resolve legacy design code nonconformances associated with construction trusses in the containment buildings of PBNP, Units 1 and 2.

The U.S. Nuclear Regulatory Commission (NRC) staff reviewed the licensee's submittal and determined that a regulatory audit would assist in the timely completion of the subject LAR review process. The NRC staff developed a request for information needed to conduct the audit. The initial request for technical information was provided to the licensee via email sent on October 30, 2017 (ADAMS Accession No. ML 17307A040). A follow up public teleconference was held on November 14, 2017 (ADAMS Accession No. ML17311A084), to discuss the requested technical information.

The NRC staff conducted the audit on November 29 and 30, 2017, at the NextEra office in Jupiter, Florida.

The audit was performed consistent with NRC Office of Nuclear Reactor Regulation (NRR) Office Instruction LIC-111, "Regulatory Audits," (ADAMS Accession No. ML082900195). The audit supported the staff's review of the licensee's submittal.

2.0 AUDIT ACTIVITIES AND OBSERVATIONS

During the audit the NRC staff and the licensee discussed each of the information needs provided to the licensee. Technical discussions were focused on the scope of the proposed change, structural design consideration, and the structural and risk analysis performed to support the proposed change. In response to the staff's information needs, the licensee provided details, using drawings and calculations listed in the following table. These documents were uploaded to an electronic portal set up by the licensee in response to NRC letter dated July 25, 2017 (ADAMS Accession No. ML17202G591).

Enclosure

**LIST OF SHAREPOINT PORTAL REQUESTED DOCUMENTS FOR THE LICENSE
AMENDMENT REQUEST (LAR)**

Document #	Cross-reference to the LAR	Report title and number
1	Reference 3 in Enclosure 4	Point Beach CT Target Assessment, PBN-BFJR-17-020
2	Not Applicable	Photographs and videos from walkdown performed to support containment truss target assessment (it would be most beneficial if the photographs and videos showed the components of interest for the assessment in relation to the containment trusses and any barriers)
3	Reference 5.5 in Enclosure 5	11Q0060-C-005, Rev. 1, "SSI Analysis of Containment Building for Response Spectra at Supports of Dome Truss"
4	Reference 5.8 in Enclosure 5	11Q0060-C-022, Rev. 0, "Thermal Evaluation of Unit 1 Containment Dome Truss in Support of Risk Informed LAR"
5	Reference 5.9 in Enclosure 5	11Q0060-C-023, Rev. 0, "Thermal Evaluation of Unit 2 Containment Dome Truss in Support of Risk Informed LAR"
6	Reference 5.10 in Enclosure 5	11Q0060-C-024, Rev. 0, "Seismic Evaluation of Unit 1 Containment Dome Truss in Support of Risk Informed LAR"
7	Reference 5.11 in Enclosure 5	11Q0060-C-025, Rev. 0, "Seismic Evaluation of Unit 2 Containment Dome Truss in Support of Risk Informed LAR"
8	Reference 5.14 in Enclosure 5	11Q0060-C-028, Rev. 0, "Seismic Fragility Analysis of Containment Dome Trusses"
9	Reference 5.16 in Enclosure 5	11Q0060-C-030, Rev. 0, "Probability of Failure vs Temperature for Unit 1 Containment Dome Truss in Support of Risk Informed LAR"
10	Reference 5.17 in Enclosure 5	11Q0060-C-031, Rev. 0, "Probability of Failure vs Temperature for Unit 1 Containment Dome Truss in Support of Risk Informed LAR"
11	Reference 5.18 in Enclosure 5	11Q0060-C-032, Rev. 0, "Evaluation of Unit 1 Containment Spray Piping under Seismic Loading Using GMRS Input in Support of Risk Informed LAR"
12	Reference 5.19 in Enclosure 5	11Q0060-C-033, Rev. 0, "Evaluation of Unit 1 Containment Spray Piping under Seismic Loading Using GMRS Input in Support of Risk Informed LAR"
13	Reference 5.20 in Enclosure 5	11Q0060-C-034, Rev. 0, "Analysis of Containment Liner to Determine Elastic Limit under Contact Load from CDT"
14	Reference 5.24 in Enclosure 5	11Q0060-C-038, Rev. 0, "Seismic Strength Capacity of Units 1 and 2 Containment Dome

Document #	Cross-reference to the LAR	Report title and number
		Trusses with Modifications to Meet AISC N690 Acceptance Criteria"
15	Not applicable	The licensee indicated that a peer review was conducted for the PRA analysis as well as the seismic and thermal fragility analyses. Provide peer review procedures, guidance, or acceptance standards; applicable self-assessment report which was provided to the peer review team; and peer review team report.
16	Ref. 4.1 in Enclosure 5	Drawing C-125, Rev.10
17	Ref. 4.2 in Enclosure 5	Dome Truss shop drawings (from 4.2.1 – 4.2.17)
18	Ref. 3.10 in Enclosure 5	Westinghouse letter WEP-97-541, dated December 8, 1997
19	Ref. 5.1 in Enclosure 5	Bechtel Job 6118-Vol 8 – Book 44 "Seismic Analysis – Containment"
20	Ref. 5.2 in Enclosure 5	6904-15-TR, Rev. 0, "calc. for Adequacy of Containment Dome Truss"
21	Ref. 5.4 in Enclosure 5	11Q0060-C-001, Rev.0, Including CCN-001 and CCN-002
22	Ref. 6.9 in Enclosure 5	11Q0060-RPT-002, Revision 1, Methodology and Criteria to Determine the Strength Capacity of the Point Beach Nuclear Plant Containment Dome Trusses and Attached/Adjacent Components in Support of a Risk-Informed License Amendment Request

3.0 CONCLUSIONS

During this audit, the NRC staff did not make any regulatory decisions regarding the proposed license amendment. The NRC staff noted that upon completion of the audit, the draft requests for additional information (RAIs) would be revised, as necessary, and issued as final, and the licensee would be expected to provide the needed information on the docket. Subsequent to the audit, the staff finalized and transmitted the RAIs (ADAMS Accession No. ML18025C043).

4.0 AUDIT PARTICIPANTS

NRC Participants:

- Mahesh Chawla, Project Manager, NRC
- Shilp Vasavada, Technical Reviewer, Probabilistic Risk Assessment (PRA), NRC
- Sara Lyons, Technical Reviewer, PRA, NRC
- Ching Ng, Technical Reviewer, PRA, NRC
- Dan Hoang, Technical Reviewer, Structural Engineering, NRC

NextEra Participants:

- Steve Cattron
- Lori Christensen
- Rich LaPlante
- Nabil Juraydini
- Anil Julka
- Ted Kulczycky
- Stan Guokas

Principal Contributor: Shilp Vasavada, NRR/DRA/APLB/RILIT

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ADAMS Accession No. ML18038A785

OFFICE	NRR/DORL/LPL3/PM	NRR/DORL/LPL3/LA	NRR/DRA/APLB/RILI (A)
NAME	MChawla	SRohrer	CFong
DATE	02/07/2018	02/07/2018	02/08/2018
OFFICE	NRR/DE/ESEB/BC	NRR/DORL/LPL3/BC	NRR/DORL/LPL3/PM
NAME	BWittick	DWrona	MChawla
DATE	02/07/2018	02/21/2018	03/06/2018

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