NEXTera ENERGY POINT BEACH

June 15, 2015

NRC 2015-0035
10 CFR 50.55a

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Point Beach Nuclear Plant Unit 2
Docket 50-301
Renewed License Number DPR-27

Response to Request for Additional Information - RR-10 - Examination of the Unit 2 SG Feedwater Nozzle Extension to Nozzle Weld Fifth Ten-Year ISI Program Internal - MF5012

References: (1) NextEra Energy Point Beach, LLC letter to NRC, dated October 13, 2014, 10 CFR 50.55a Request, Relief Request RR-10 Examination of the Unit 2 Steam Generator Feedwater Nozzle Extension to Nozzle Weld Fifth Ten-Year Inservice Inspection Interval (ML14286A094)

(2) NRC electronic mail to NextEra Energy Point Beach, LLC, dated May 13, 2015, Request for Additional Information - RR-10 - Examination of the Unit 2 SG Feedwater Nozzle Extension to Nozzle Weld Fifth Ten-Year ISI Program Interval - MF5012

The NRC staff determined in Reference (2) that additional information was required to complete its review of the Relief Request RR-10 requested in Reference (1). NextEra Energy Point Beach, LLC, (NextEra) response to the request for additional information is documented in the Enclosure.

This letter contains no new Regulatory Commitments or revisions to existing Regulatory Commitments.

If you have questions or require additional information, please contact Mr. Michael Millen, Licensing Manager, at 920/755-7845.

In accordance with the provisions of 10 CFR 50.91, a copy of this submittal has been provided to the designated Wisconsin Official.

Very truly yours,

NextEra Energy Point Beach, LLC

Eric McCartney
Site Vice President

Enclosure

cc: Regional Administrator, Region III, USNRC
Project Manager, Point Beach Nuclear Plant, USNRC
Resident Inspector, Point Beach Nuclear Plant, USNRC
PSCW
Mr. Mike Verhagan, Department of Commerce, State of Wisconsin

ENCLOSURE

NEXTERA ENERGY POINT BEACH, LLC
POINT BEACH NUCLEAR PLANT, UNIT 2

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION
RR-10 – EXAMINATION OF THE UNIT 2 SG FEEDWATER NOZZLE EXTENSION TO NOZZLE WELD FIFTH TEN-YEAR ISI PROGRAM INTERNAL - MF5012

RAI 1

Please provide the ASME designation for the materials of construction for both the nozzle and the weld metal.

Response to RAI 1

The Unit 2 Feedwater Nozzle and Nozzle Extension assemblies for both Steam Generators were fabricated from SA-508 Cl. 3a. The weld material joining the Feedwater Nozzles to their associated Nozzle Extension assemblies was either ER80S-D2 or E9018M.

RAI 2

If the nozzle and weld material are made of ferritic steel, please describe if the weld was made using the temper bead technique or if post-weld heat treatment was applied to the nozzle weld area.

Response to RAI 2

The Unit 2 Steam Generator Feedwater Nozzles, Nozzle Extension assemblies, and welds were made of ferritic steel. Post-weld heat treatment of the Nozzle-to-Vessel and Nozzle-to-Nozzle Extension assemblies were performed, with the Nozzle-to-Nozzle Extension assemblies being performed at PBNP during installation activities.

RAI 3

Has an analysis for thermal fatigue been performed for the weld? If so, please provide the expected cumulative usage factor for the weld projected through the end of the components expected service life.

Response to RAI 3

The Steam Generator supplier (Westinghouse) has performed fatigue analysis on the Feedwater Nozzles, which includes the Nozzle Extension assemblies. These analysis show that expected cumulative usage factor for the Nozzle assembly to be 0.9276.