



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, ILLINOIS 60532-4352

October 2, 2019

Mr. Robert Craven
Site Director
NextEra Energy Point Beach, LLC
6610 Nuclear Road
Two Rivers, WI 54241-9516

SUBJECT: POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2—POST-APPROVAL SITE
INSPECTION FOR LICENSE RENEWAL – PHASE 4 REPORT 05000266/2019010
AND 05000301/2019010

Dear Mr. Craven:

On September 20, 2019, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Point Beach Nuclear Plant, Units 1 and 2, and discussed the results of this inspection with Mr. Jim Wilson and other members of your staff. The results of this inspection are documented in the enclosed report.

The NRC inspectors did not identify any finding or violation of more-than-minor significance.

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,

/RA/

Karla K. Stoedter, Chief
Engineering Branch 2
Division of Reactor Safety

Docket Nos. 05000266 and 05000301
License Nos. DPR-24 and DPR-27

Enclosure:
As stated

cc: Distribution via LISTSERV®

Letter to Robert Craven from Karla K. Stuedter dated October 2, 2019.

SUBJECT: POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2—POST-APPROVAL SITE
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U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report

Docket Numbers: 05000266 and 05000301

License Numbers: DPR-24 and DPR-27

Report Numbers: 05000266/2019010 and 05000301/2019010

Enterprise Identifier: I-2019-010-0055

Licensee: NextEra Energy Point Beach, LLC

Facility: Point Beach Nuclear Plant, Units 1 and 2

Location: Two Rivers, WI

Inspection Dates: September 16, 2019, to September 20, 2019

Inspectors: J. Bozga, Senior Reactor Inspector
V. Meghani, Reactor Inspector
V. Petrella, Reactor Inspector

Approved By: Karla K. Stoedter, 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 Post-Approval Site Inspection for License Renewal – Phase 4 at Point Beach Nuclear Plant, Units 1 and 2 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.

OTHER ACTIVITIES – TEMPORARY INSTRUCTIONS, INFREQUENT AND ABNORMAL

71003 - Post-Approval Site Inspection for License Renewal

The team selected seven Aging Management Programs (AMPs) for evaluation considering risk insights and programs that were enhanced or new under the renewed operating license. The team also considered for selection those programs with monitoring results that were performed for the first time or those that identified examination or test results not experienced in the past. For the AMPs selected, the team reviewed records, interviewed plant staff, and conducted plant walk downs to evaluate whether aging management program elements were being implemented in accordance with U.S. Nuclear Regulatory Commission requirements. The team evaluated the following elements of the selected AMPs: scope, preventive actions, parameters monitored or inspected, detection of aging effects, monitoring and trending, acceptance criteria, corrective actions, confirmation process, administrative controls, and operating experience.

The following AMPs were evaluated by the team:

Post-Approval Site Inspection for License Renewal (7 Samples)

- (1) ASME Section XI, Subsections IWB, IWC, and IWD
- (2) Cable Condition Monitoring
- (3) Closed-Cycle Cooling Water System Surveillance
- (4) Buried Service Monitoring
- (5) Open-Cycle Cooling (Service) Water System Surveillance
- (6) Steam Generator Integrity
- (7) Structures Monitoring

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

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

- On September 20, 2019, the inspectors presented the Post-Approval Site Inspection for License Renewal – Phase 4 results to Mr. Jim Wilson, and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71003	Corrective Action Documents	AR 01372922	Buried Fire Protection Piping Inspection Results	09/28/2009
		AR 01386114	License Renewal Inspection of Opportunity: Concrete Core	03/25/2010
		AR 02161633	SGMP-IL-16-02 Aging Management Guidance for SGs	10/11/2016
		AR 02209391	Z-065A Cable Supports Degradation Increasing	06/08/2017
		AR 02220709	Potential Impact to Cables in Manhole Z-65; Support Degrad	08/16/2017
		AR 02220951	Recordable Indications on Containment Spray Pump 1P-14A Pump	08/17/2017
		AR 02224989	Piping JB-02 - NDE Inspections of SW Piping for HX-028A1-4	09/14/2017
		AR 02228762	1 Piping JB-01 - SW ISI Results SW Piping From 1HX-023A	10/06/2017
		AR 02229345	1N-32/1N-36 1R37 Detector Replacement Issues	10/10/2017
		AR 02241723	Effectiveness Reviews of PB License Renewal Programs	12/21/2017
		AR 02262609	L1A: License Renewal Program Effectiveness Reviews	05/03/2018
		AR 02269823	License Renewal Commitment Verbiage Removed from Document	06/25/2018
		AR 02286065	U2 A Containment Fan Cooler Tubes Need Plugging	10/16/2018
		AR 02302058	LR Commitment to Visually Inspect SG Tube Supports not met	02/14/2019
		AR 02303129	LR Commitment to Visually Inspect Upper Tube Bundle not met	02/22/2019
		AR 02307112	Unidentified Liquid on Floor of U1 Keyway	03/24/2019
		AR 02307153	Inspect HX-15D Coils & Condensate Drains	03/25/2019
		AR 02307702	Slow Weep Exists at 1CC-730D SS Swage Connection	03/27/2019
		AR 02309950	Eroded Pipe Inside Condenser	04/10/2019
		AR 02323853	LR-AMP Revision Packages not Found in Records	08/09/2019
	Corrective Action Documents Resulting from Inspection	AR 02328054	Potential Gap For Buried Piping Fire Protection Inspections	09/16/2019
		AR 02328188	(LR 2019 Phase IV) Facilities Monitoring PMRQs	09/17/2019
		AR 02328236	2019 LR Phase IV - Missing HX-12B Blowdown Insulation	09/17/2019
		AR 02328296	2019 LR INSP-Post Outage 1R38 Poor Housekeeping Identified	09/18/2019
		AR 02328341	LR2019 Phase IV SG Feeding Support Inspections	09/18/2019

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		AR 02328486	NRC Identified - Settlement Monitoring PM	09/19/2019
		AR 02328523	Remove Paint from Stanchion and Floor Base Plates on Support	09/19/2019
	Miscellaneous	AR 2158241	PB Asset Management Plan , Underground Piping and Tank Integrity Program	1
		Q3-2019 Buried Piping	Program Health Report	09/16/2019
	Procedures	50.59 Screening	Revision to PBN Steam Generator LR Aging Management Plan	05/14/2019
		FP-IH-EXC-01	Excavations & Trenching Controls	10
		LR-AMP-003-SGINT	Steam Generator Integrity Program Basis Document for License Renewal	10
		LR-AMP-014-CCMON	Cable Conditioning Monitoring Program Basis Document For License Renewal	10
		LR-AMP-017-IWBCD	ASME Section XI, Subsections IWB, IWC, and IWD Inservice Inspection Program Basis Document for License Renewal	9
		LR-AMP-018-BSMON	Buried Services Monitoring Program Basis Document for License Renewal	9
		LR-AMP-021-OCCW	Open Cycle Cooling (Service) Water System Surveillance Program Basis Document For License Renewal	9
		LR-AMP-022-STRMON	Structural Monitoring Program Basis Document	9
		LR-AMP-023-CCCW	Closed-Cycle Cooling Water System Surveillance Program Basis Document For License Renewal	9
		NP 3.2.2	Primary Water Chemistry Monitoring Program	28
		NP 7.7.28	Cable Condition Monitoring Program	7
		NP 7.7.9	Facilities Monitoring Program	21
		SEM 8.0	Buried Services Monitoring Program	6
	Self-Assessments	2326310	PBN NRC Aging Management Phase IV Inspection Readiness Assessment	08/29/2019
		NPM 2016-0102	2014 Facilities Monitoring Program Annual Report	07/19/2016
		NPM 2018-0025	2017 Facilities Monitoring Program Annual Report	01/30/2018
		NPM 2019-0021	2018 Facilities Monitoring Program Annual Report	01/31/2019
	Work Orders	00351143	1A-06 to 1X-14 Cable Testing (1R31)	10/21/2008

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		00355300	H52-11 to X-08 Cable Testing	12/03/2008
		00372300	1P-15B-M Perform Tan Delta Testing of the 4 KV Supply Cables	03/10/2010
		00380163	Perform OI-151, HX-12C/D C C System HX Data Collection	11/03/2012
		00380572-02	VT-1 Exam on 2P-001A Welds	03/18/2011
		00387898	Perform OI-152 During U1 Refueling GL 89-13 Requirement	10/07/2011
		00388181	1X-04, Perform Tan Delta Testing of 13.8 Cables	12/09/2011
		40080735	Z-065A/Manhole #1 Degraded Cable Supports	10/22/2017
		40080737	Z-065B/Manhole #2 Degraded Cable Supports	10/17/2018
		40151263-02	Piping KC-01 / Excavate 10 FT of Fire Protection Piping	06/27/2012
		40208193	2X-04-Tan Delta Test 13.8KV Cables (H52-32)	03/30/2014
		40313272	2SW-02908/Valve Internal Inspection	04/08/2017
		40357209	1HX-015C1-C8 GL 89-13 Clean Heat Exchanger as Req	03/17/2016
		40357741-01	Perform Steam Drum Inspections	05/05/2016
		40380349	As-found Buried Piping Visual Inspection Report, Valve FP-00451	11/14/2016
		40419973	2HX-015C1-C8 GL 89-13 Clean Heat Exchanger as Req	04/02/2017
		40430884-07	2HX-001B VT-2 Exam Steam Generator "B" Hot Vent Nozzle	05/17/2017
		40430884-08	2HX-001B VT-2 Exam of S/G "B" Safe End to Nozzle Weld	05/17/2017
		40430889-01 and 40430889-04	2HX-001A, Perform SG Secondary Inspections	04/21/2017
		40430914	2HX-015B1-B8 GL 89-13 Clean Heat Exchanger as Req	10/17/2018
		40430995	2HX-015D1-D8 GL 89-13 Clean Heat Exchanger as Req	04/04/2017
		40460127-01	Turbine Hall U2R35 ISI Exams	05/23/2017
		40460288-02	EB-1-MS-69-A-2 Ctmt. ISI Exams in General Areas	05/23/2017
		40460288-05	SG "A" Support Ring Girder Ctmt. ISI Exams	05/23/2017
		40460288-06	VT-1 SG "A" & "B" Manway Bolting CTMT. ISI Exams	05/22/2017
		40461873	HX-055B GL 89-13 Open/Inspect/Clean/Close G-02 EDG	01/05/2017
		40473102	1ICP 4.26 -- NI Power Range Channels - INSP, MNT & CAL	10/15/2017
		40473372	1HX-015D1-D8 GL 89-13 Clean Heat Exchanger as Req	10/23/2017
		40506918-01	PB0-Inspect Buried Fire Protection System Piping	08/24/2017
		40514104-01	Minor Spalled Exterior Concrete on CWPH	07/03/2019
		40533638	Yearly (Fall) Electrical Inspection of Manholes	09/15/2017

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		40567232-02	Perform Upper Bundle Inspections	04/19/2019
		40567250-01	1HX-001B / Perform Tubesheet Cleaning	04/23/2019
		40567250-03	1HX-001B / Perform FOSAR Inspection	04/22/2019
		40573164	1A-06, Tan Delta Testing of 1A-06 Supply Cables	04/03/2019
		40573454	1ICP 4.26 -- NI Power Range Channels - INSP, MNT & CAL	04/05/2019
		40599327	HX-038B Inspect and Maintain AC Unit	05/22/2019
		40601350	HX-105A GL 89-13 Remove End Bells and Hydrolance	03/06/2019
		40610430	Yearly (Spring) Electrical Manhole Sump Inspections	05/02/2019
		40610865	HX-038B Inspect and Maintain AC Unit	11/19/2018
		40613663	TS-82, G-02 Emergency Diesel Generator Operability	06/09/2019
		40620438	TS-83, G-03 Emergency Diesel Generator Operability	07/28/2019
		40623681	G-02 Coolant Sampling	07/14/2019