



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, ILLINOIS 60532-4352

July 18, 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 – DESIGN BASIS  
ASSURANCE INSPECTION (PROGRAMS) INSPECTION REPORT  
05000266/2019013 AND 05000301/2019013

Dear Mr. Craven:

On July 11, 2019, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Point Beach Nuclear Plant, Units 1 and 2 and discussed the results of this inspection with you 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 10 CFR 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 w/ encl: Distribution via LISTSERV®

Letter to Robert Craven from Karla K. Stuedter dated July 18, 2019.

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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: 05000266/2019013 and 05000301/2019013

Enterprise Identifier: I-2019-013-0011

Licensee: NextEra Energy Point Beach, LLC

Facility: Point Beach Nuclear Plant, Units 1 and 2

Location: Two Rivers, WI

Inspection Dates: June 24, 2019 to July 11, 2019

Inspectors: J. Braisted, Reactor Inspector  
I. Hafeez, Reactor Inspector  
B. Jose, Senior Reactor Inspector

Approved By: Karla K. Stodter, Chief  
Engineering Branch 2  
Division of Reactor Safety

## **SUMMARY**

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a design basis assurance inspection (programs) inspection 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.

## REACTOR SAFETY

### 71111.21N - Design Bases Assurance Inspection (Programs)

The inspectors evaluated Environmental Qualifications program implementation through the sampling of the following components:

#### Select Sample Components to Review - Primary Containment (Inside Containment) (IP Section 02.01) (1 Sample)

1-LT-00427, T-1 Pressurizer Narrow Range Level Transmitter

#### Select Sample Components to Review - Risk Significant/Low Design (Inside/Outside Containment) (IP Section 02.01) (7 Samples)

- (1) 1-CS-00480-S, HX-1A Steam Generator Regulator Control Bypass Solenoid
- (2) 2-CC-00738B, HX-11B Residual Heat Removal (RHR) Heat Exchanger (HX) Shell Side Inlet Motor-Operated Valve
- (3) 2P-11B, Unit 2 Component Cooling Water Pump B
- (4) 2-PT00968, Unit 2 C Wide Range Pressure Transmitter
- (5) 2-MS-02020, Heat Exchanger 1A Steam Generator Header P-29 Auxiliary Feed Pump Steam Supply Motor Operated Valve
- (6) 2-I/P-00625, HX-11B RHR HX Outlet Control I/P Transducer
- (7) 2-RC-00430-S, T-1 Pressurizer Power Operated Relief Solenoid

## INSPECTION RESULTS

No findings were identified.

## EXIT MEETINGS AND DEBRIEFS

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

- On July 11, 2019, the inspectors presented the design basis assurance inspection (programs) inspection results to Robert Craven and other members of the licensee staff.

## DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.21N	Calculations	2000-0063	Re-Evaluation of Thermal Qualified Life for Affected Environmental Qualification (EQ) Components Based on Revised Temperature Monitoring Data in Primary Auxiliary Building and Turbine Building	2
		2010-0023	Point Beach Emergency Operating Procedure Containment Setpoints	2
		97-0059	Calculation of Arrhenius Equivalent Temperature for EQ Transmitters in Containment	1
	Corrective Action Documents	1225720	EQ Self-Assessment Recommendations	11/21/2002
		1953134	2CC-738B Stopped Mid Stroke When Opening	03/30/2014
		2196999	Motor Base not Flat and Lead Box Small	04/07/2017
		2239168	No Vibration Pads or Point Label on 2P-11B Motor	12/06/2017
		2279998	Warehouse Temperature Monitors Calibration Overdue	09/12/2018
		2280002	WH 4, 5, 6 Walkdown Observations	09/12/2018
		2283570	Emergency Operating Procedure Setpoint Calculation 2010-0023	10/03/2018
		2316910	Automatic Switch Company (ASCO) Solenoid Valve EQ Life Activation Energy	06/05/2019
		2320720	Evaluate Harris NRC IR 2019-010 for Vulnerability at NEE Fleet Sites	07/11/2019
		99-3092	Logged Local Temperature Higher Than EQ Specification	12/06/1999
	AR/PMCR 02014853-08	Change Valve Operator Overhaul PM "On Demand" (OD) Based on the Excellent Performance of the Gear Box Lubricant	03/03/2015	
	Corrective Action Documents Resulting from Inspection	2319407	Remove Existing Ladder Storage Brackets and Replace with New	06/27/2019
		2320373	Incorrect EQCK Referenced for MOV Motors	07/09/2019
		2320446	Documentation Error Related to Motor Operated Valve Preventive Maintenance Frequencies	07/09/2019
	Drawings	6118-E-27	Raceway Systems Notes & Details	2
		EG-G11	Environmental Qualification Service Conditions	11
	Engineering	EC 281173	Pressurizer Level Transmitter Replacement	2

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Changes			
	Miscellaneous	351R2	Investigation into Eliminating the use of lubricants on the NP series of valves	05/25/2004
		4500407119	Qualification Report: FQR-73	A
		AQR-67368/R	Report on Qualification of ASCO Catalog NP-1 Solenoid Valves for Safety-Related Applications in Nuclear Power Generating Stations	1
		AQS-21678/TR	Qualification Tests of Solenoid Valves by Environmental Exposure to Elevated Temperature, Radiation, Wear Aging, Seismic Simulation, Vibration Endurance, Accident Radiation and Loss-Of-Coolant Accident (LOCA) Simulation	A
		B0003	Limatorque Test Report No. B0003 Qualification Type Test Report Limatorque Valve Actuators for Class 1E Outside Primary Containment	07/29/1986
		D2013003	IEEE Qualification Report of Rosemount 3154N Pressure Transmitters	A
		DBD-T-39	Environmental Qualification Design Basis Document	9
		EQCK-ASCO-002	Checklist for Environmental Qualification Assessment of ASCO Model: 206 Series, NP8314, NP8316, & NPEFL8300 Solenoid Valves	3
		EQCK-FISH-001	Thermal Qualified Life Calculation & Accident/Post-Accident Evaluation	3
		EQCK-FOXB-001	Environmental Qualification Assessment of Foxboro Pressure Transmitters	4
		EQCK-LIMIT-001	Checklist for Environmental Qualification Assessment of Limatorque SMB Valve Actuators with H/RH Motor Insulation	3
		EQCK-LIMIT-002	Checklist for Environmental Qualification Assessment of Limatorque SMB Valve Actuator Class B Motor Insulation Outside Containment Without Brakes	2
		EQCK-LIMIT-004	Checklist for Environmental Qualification Assessment of Limatorque SMB Valve Actuator Components	3
		EQCK-ROSEMT-003	Checklist for Environmental Qualification Assessment of Rosemount 3154N Pressure Transmitters	0

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		EQCK-WEST-008	Environmental Qualification Report for Component Cooling Water Pump Motors	2
		EQML	Environmental Qualification Master List for Point Beach Nuclear Power Plant Units 1 & 2	39
		EQMR-ASCO	Equipment Qualification Maintenance Requirements for ASCO NP Series Solenoid Valves	6
		EQMR-CCW	Equipment Qualification Maintenance Requirement for Component Cooling Water Motors	11
		EQMR-FOXBOR	EQ Maintenance Requirements for Foxboro Transmitters	5
		EQMR-LIMIT	Equipment Qualification Maintenance Requirements for Limatorque Valve Motor Operators including Control Cable, Power Cable, Motor-to-Lead Splices, Main Gear Case Lubricant and Geared Limit Switch Lubricant	8
		EQMR-ROSE3154	Equipment Qualification Maintenance Requirements for Rosemount Transmitters 3154N Series with or Without 3159 Remote Diaphragm Seal	1
		MM-9112	Environmental Qualification Test Report for Component Cooling Water Pump Motors	05/15/1986
		NEM-89-175	Unit 2 Containment Ventilation System	03/10/1989
		NPC-44228	Clarification of Information Related to the Environmental Qualification of Limatorque Motorized Valve Operators	09/07/1989
		PBN EM 310 OJ002	Field Test Motor Operated Valve Actuators	1
		RMP 9004	Power Operated Relief Valve Maintenance	28
		RMP 9376-6	Limatorque Motor Operator Model SMB-00 Disassembly, Inspection, Repair, and Re-Assembly	9
		SMS-02020	HX-1A SG Header P-29 AFP Steam Supply MOV Starter	0
		TM-46	VOTES Infinity Data Acquisition and Basic Analysis	4
		VTM 00003-2	Installation and Maintenance Instructions, 3-Way Direct Acting Nuclear Power Plant Pilot Valves Normally Closed, Normally Open and Universal Operation	19
		VTM 00432	Vendor Manual for Foxboro Transmitters	21



Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		VTM 02119	Rosemount 3150 Series Nuclear Pressure Transmitters Including the Rosemount 3152, 3153, and 3154	1
	Procedures	2ICP05.69B	Train B RHR Heat Exchanger Valve and Controller Calibration	7
		DG-G12	Environmental Qualification Program Manual	2
		MA-AA-100-1014	Limatorque Motor Operated Valve Testing and Actuator Inspections	0
		MA-AA-100-1021	Motor Operated Valve Stem Lube and Actuator Gearbox Grease Inspection	1
		PBN EM 310 OJ002	OJT/TPE Guide Title: Field Test MOV Actuators	1
	Self-Assessments	2283192	Environmental Qualification Assessment in Preparation of NRC EQ Design Basis Assurance Inspection (DBAI)	09/14/2018
	Work Orders	WO 00217201	Motor Operated Valve Actuator Rebuild	10/29/2006
		WO 00356508	2B52-4245, Cat-1 MCCB Cleaning / Insp / Cycling	02/03/2010
		WO 09902038	Replace Solenoid Valve at 14 Year Frequency per Environmental Qualification Maintenance Requirement (EQMR) Sheet for ASCO NP-1 Solenoid Valves	11/16/1999
		WO 40111457	2 SMS-02020: Contactor & Thermal Overload Testing	1
		WO 4020808801	2ICP 5.69B- Train B Residual Heat Removal Heat Exchanger Valve and Controller Calibration	03/24/2014
		WO 4020860601	2MS-2020; Radiograph for IST During Refueling Outage	10/06/2015
		WO 40299706	1LT-427 / 1R35 Replace with New 3154 / 3159 Transmitter	10/15/2014
		WO 40313480	Motor Operated Valve Checklist	10/16/2015
		WO 40380291,01	Motor Operated Valve Actuator Checkout	10/13/2015
		WO 4038029101	Lube Check at-the-Valve	10/16/2015
		WO 40430808	2CC-00738B-O - Stem Clean & Lube	04/07/2017
		WO 40472741	1LQ-427 Refurbish Power Supply	08/22/2017
WO 4052613801		IT-2015, Unit 2 Power Operated Relief Valve and Block Valves (CSD), Task Required	11/19/2018	
WO 40573499	1ICP 4.3-1 -- Pressurizer Level Transmitter Calibration	04/10/2019		

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		WO 893952	Pressurizer Press Power-Operated Relief Solenoid	09/27/1989
		WO 9938675	Transducer will not Calibrate in Tolerance. Needs Replacement.	04/23/2002