



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
LISLE, IL 60532-4352**

December 30, 2014

Mr. Eric McCartney  
Site Vice President  
NextEra Energy Point Beach, LLC  
6610 Nuclear Road  
Two Rivers, WI 54241

**SUBJECT: POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2, NRC BASELINE  
EMERGENCY PREPAREDNESS BIENNIAL EXERCISE INSPECTION REPORT  
05000266/2014502; 05000301/2014502**

Dear Mr. McCartney:

On December 11, 2014, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Point Beach Nuclear Plant, Units 1 and 2. The enclosed report documents the results of this inspection, which were discussed on December 11, 2014, with you and other members of your staff.

The inspection examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel. No findings were identified during this inspection.

In accordance with Title 10, *Code of Federal Regulations* (CFR), Section 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response (if any), will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records System (PARS) component of NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA by J. Maynen Acting For/

Steven K. Orth, Chief  
Plant Support Branch  
Division of Reactor Safety

Docket Nos. 50-266; 50-301  
License Nos. DPR-24; DPR-27

Enclosure:  
Inspection Report 05000266/2014502; 05000301/2014502  
w/Attachment: Supplemental Information

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U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket Nos: 50-266; 50-301  
License Nos: DPR-24; DPR-27

Report No: 05000266/2014502; 05000301/2014502

Licensee: NextEra Energy Point Beach, LLC

Facility: Point Beach Nuclear Plant, Units 1 and 2

Location: Two Rivers, WI

Dates: December 8 – 11, 2014

Inspectors: R. Jickling, Senior Emergency Preparedness Inspector  
J. Beavers, Emergency Preparedness Inspector  
D. Oliver, Senior Resident Inspector

Approved by: Steven K. Orth, Chief  
Plant Support Branch  
Division of Reactor Safety

Enclosure

## SUMMARY OF FINDINGS

IR 05000266/2014502; 05000301/2014502, 12/8/2014 – 12/11/2014, Point Beach Nuclear Plant, Units 1 and 2, Baseline Emergency Preparedness Biennial Exercise Inspection; Exercise Scenario Review; Performance Indicator Verification.

This report covers a one-week period of announced baseline inspection by two regional inspectors and one resident inspector. The significance of most findings is indicated by their color (Green, White, Yellow, Red) using Inspection Manual Chapter 0609, "Significance Determination Process" (SDP). Findings for which the SDP does not apply may be Green or be assigned a severity level after NRC management review. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 4, dated December 2006.

### **A. NRC-Identified and Self-Revealed Findings**

#### **Cornerstone: Emergency Preparedness**

No findings were identified.

### **B. Licensee-Identified Violations**

None

## REPORT DETAILS

### 1. REACTOR SAFETY

#### Cornerstone: Emergency Preparedness

#### 1EP1 Exercise Evaluation (71114.01)

##### .1 Exercise Evaluation

##### a. Inspection Scope

The inspectors reviewed the December 9, 2014, Biennial Emergency Preparedness Exercise objectives and scenario to ensure the exercise would acceptably test major elements of the licensee's emergency plan and to verify that the exercise's simulated problems provided an acceptable framework to support demonstration of the licensee's capability to implement its plan. The inspectors also reviewed records of other drills and exercises conducted in 2013 and 2014, to verify that those drills' scenarios were sufficiently different from the scenario used in the December 9, 2014, exercise.

The inspectors evaluated the licensee's exercise performance, focusing on the risk-significant activities of emergency classification, notification, and protective action decision making, implementation of accident mitigation strategies, and correction of past exercise weaknesses in the following emergency response facilities:

- Control Room Simulator (CRS);
- Technical Support Center (TSC); and
- Emergency Operations Facility (EOF).

The inspectors also assessed the licensee's recognition of abnormal plant conditions, transfer of responsibilities between facilities, internal communications, readiness of emergency facilities and related equipment, and overall implementation of the licensee's emergency plan.

The inspectors attended post-exercise critiques in the CRS, TSC, and EOF to evaluate the licensee's initial self-assessment of its exercise performance. The inspectors later met with the licensee's lead exercise evaluators and managers to obtain the licensee's findings and assessments of its exercise participants' performances. These self-assessments were then compared with the inspectors' independent observations and assessments to assess the licensee's ability to adequately critique its exercise performance. Documents reviewed are listed in the Attachment to this report.

This exercise evaluation inspection constituted one sample as defined in Inspection Procedure (IP) 71114.01-06.

##### b. Findings

No findings were identified.

1EP8 Exercise Evaluation – Scenario Review (71114.08)

a. Inspection Scope

Prior to the inspection activity, the inspectors conducted an in-office review of the exercise objectives and scenarios submitted to the NRC using IP 71114.08, “Exercise Evaluation - Scenario Review,” to determine if the exercise would test major elements of the Emergency Plan, as required by 10 CFR 50.47(b)(14). This inspection activity represents one sample on a biennial cycle.

The inspectors reviewed various documents, which are listed in the Attachment to this report. This inspection activity satisfied one inspection sample for the exercise evaluation on a biennial basis.

This review of the exercise objectives and scenario constituted one sample as defined in IP 71114.08-06.

b. Findings

No findings were identified.

**4. OTHER ACTIVITIES**

**Cornerstone: Emergency Preparedness**

4OA1 Performance Indicator Verification (71151)

.1 Drill/Exercise Performance

a. Inspection Scope

The inspectors sampled licensee submittals for the Drill/Exercise Performance Indicator (PI) for the third quarter 2014. To determine the accuracy of the PI data reported during those periods, PI definitions and guidance contained in the Nuclear Energy Institute (NEI) Document 99-02, “Regulatory Assessment Performance Indicator Guideline,” Revision 7, was used. The inspectors reviewed the licensee’s records associated with the PI to verify that the licensee accurately reported the indicator in accordance with relevant procedures and the NEI guidance. Specifically, the inspectors reviewed licensee records and processes including procedural guidance on assessing opportunities for the PI, assessments of PI opportunities during pre-designated control room simulator training sessions, and performance during other drills. Documents reviewed are listed in the Attachment to this report.

This inspection constituted one Drill/Exercise Performance sample as defined in IP 71151-05.

b. Findings

No findings were identified.

.2 Emergency Response Organization Drill Participation

a. Inspection Scope

The inspectors sampled licensee submittals for the Emergency Response Organization (ERO) Drill Participation PI for the third quarter 2014. To determine the accuracy of the PI data reported during those periods, PI definitions and guidance contained in the NEI Document 99-02, "Regulatory Assessment Performance Indicator Guideline," Revision 7, was used. The inspectors reviewed the licensee's records associated with the PI to verify that the licensee accurately reported the indicator in accordance with relevant procedures and the NEI guidance. Specifically, the inspectors reviewed licensee records and processes including procedural guidance on assessing opportunities for the PI, performance during the 2014 drills, and revisions of the roster of personnel assigned to key ERO positions. Documents reviewed are listed in the Attachment to this report.

This inspection constituted one ERO Drill Participation sample as defined in IP 71151-05.

b. Findings

No findings were identified.

.3 Alert and Notification System

a. Inspection Scope

The inspectors sampled licensee submittals for the Alert and Notification System (ANS) PI for the third quarter 2014. To determine the accuracy of the PI data reported during those periods, PI definitions and guidance contained in the NEI Document 99-02, "Regulatory Assessment Performance Indicator Guideline," Revision 7, was used. The inspectors reviewed the licensee's records associated with the PI to verify that the licensee accurately reported the indicator in accordance with relevant procedures and the NEI Guidance. Specifically, the inspectors reviewed licensee records and processes including procedural guidance on assessing opportunities for the PI and results of periodic scheduled ANS operability tests. Documents reviewed are listed in the Attachment to this report.

This inspection constituted one ANS sample as defined in IP 71151-05.

b. Findings

No findings were identified.

#### 4OA6 Management Meetings

##### .1 Exit Meeting Summary

On December 11, 2014, the inspectors presented the biennial exercise inspection results to Mr. E. McCartney and other members of the licensee staff. The licensee acknowledged the issues presented.

The inspectors confirmed that none of the potential report input discussed was considered proprietary.

##### .2 Public and Media Briefing

On December 12, 2014, the inspector summarized the NRC's preliminary exercise inspection conclusions at a public and media briefing hosted by Department of Homeland Security/Federal Emergency Management Agency Region V Field Office staff at the Manitowoc County Emergency Operations Center in Manitowoc, Wisconsin.

ATTACHMENT: SUPPLEMENTAL INFORMATION

## **SUPPLEMENTAL INFORMATION**

### **KEY POINTS OF CONTACT**

#### Licensee

E. McCartney, Site Vice President  
R. Wright, Plant General Manager  
S. Aerts, Performance Improvement Manager  
G. Brostowicz, Communications  
A. Fitzgerald, Emergency Preparedness Specialist  
W. Godes, Technical Training Supervisor  
B. Griffin, Communications  
L. Hawki, ERRT Engineering Manager  
J. Henrickson, Senior Emergency Preparedness Coordinator  
K. Hilliker, Emergency Preparedness Coordinator  
R. Johnson, Emergency Preparedness Consultant  
B. Kopetsky, Security Manager  
D. Lauterbur, Training Manager  
B. Leonhardt, Emergency Preparedness Coordinator  
M. Millen, Licensing Manager  
C. Neuser, Systems Engineering Manager  
R. Parker, Chemistry Manager  
P. Polfleit, Corporate Emergency Preparedness Manager  
S. Ruesch, Employee Concerns Program Coordinator  
B. Scherwinski, Licensing Analyst  
R. Seizert, Emergency Preparedness Manager  
G. Strharsky, Site Quality Manager  
S. Wall, Senior Technical Training Instructor  
R. Webber, Operations Director  
R. Welty, Radiation Protection Manager  
J. Wilson, Maintenance Director

#### U.S. Nuclear Regulatory Commission

D. Oliver, Senior Resident Inspector  
K. Barclay, Resident Inspector

### **LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED**

#### Opened, Closed, and Discussed

None



## LIST OF DOCUMENTS REVIEWED

The following is a partial list of documents reviewed during the inspection. Inclusion on this list does not imply that the NRC inspectors reviewed the documents in their entirety, but rather that selected sections or portions of the documents were evaluated as part of the overall inspection effort. Inclusion of a document on this list does not imply NRC acceptance of the document or any part of it, unless this is stated in the body of the inspection report.

### 1EP1 Exercise Evaluation

- Point Beach Nuclear Plant Emergency Plan; October 31, 2014
- EPIP 1.2.1; Emergency Action Level Technical Basis; Revision 15
- EPIP 1.3; Dose Assessment and Protective Action Recommendations; Revision 46
- EPIP 2.1; Notifications; Revision 49
- EPIP 4.1; Technical Support Center Activation; Revision 49
- EPIP 4.3; Emergency Operations Facility Activation; Revision 40
- AR 02012531; Exercise-ERF Problems With Prioritization, Communications, and ERO Engagement Contributed to Problems With Managing Events; December 12, 2014
- AR 02012530; Exercise-Simulator Crew Inconsistencies Delayed Response to Some Emergency Conditions; December 11, 2014
- AR 02012515; Exercise-Weakness in Implementing On-Site Protective Actions, TSC HVAC, Control Room Simulator Habitability, and Areas to Avoid Not Announced to Site or Briefed in the TSC; December 11, 2014
- AR 02012490; Exercise-EOF and TSC Leads Ineffective Updates Concerning Charging Pumps Status, Some Plant Conditions, and Weather Forecasts; December 11, 2014
- AR 02012487; Exercise-Ineffective Management of Reentry Teams Resulted In Prolonged Release; December 11, 2014
- AR 02012484; Exercise-Ineffective Management of Failed Fuel Exercise Event; December 11, 2014
- AR 02012458; Exercise-EOF Ineffective Communications to the ERFs and Offsite Authorities For the Wind Shift Not Affecting PARs; December 11, 2014

### 1EP8 Exercise Evaluation – Scenario Review

- Point Beach Nuclear Plant 2014 Exercise Manual; October 9, 2014

### 40A1 Performance Indicator Verification

- NRC Performance Indicator Data; Emergency Preparedness – Alert and Notification System Reliability; Third Quarter 2014
- NRC Performance Indicator Data; Emergency Preparedness – Drill and Exercise Performance; Third Quarter 2014
- NRC Performance Indicator Data; Emergency Preparedness – ERO Participation; Third Quarter 2014

## LIST OF ACRONYMS USED

ADAMS	Agencywide Documents Access and Management System
ANS	Alert and Notification System
CFR	Code of Federal Regulations
CRS	Control Room Simulator
DRS	Division of Reactor Safety
EOF	Emergency Operations Facility
EP	Emergency Preparedness
ERO	Emergency Response Organization
IP	Inspection Procedure
IR	Inspection Report
NEI	Nuclear Energy Institute
NRC	U.S. Nuclear Regulatory Commission
PARS	Publicly Available Records System
PI	Performance Indicator
SDP	Significance Determination Process
TSC	Technical Support Center

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/RA by J. Maynen Acting For/

Steven K. Orth, Chief  
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Letter to Eric McCartney from Steven K. Orth dated December 30, 2014.

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