



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

November 10, 2010

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

SUBJECT: POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2  
BASELINE EMERGENCY PREPAREDNESS BIENNIAL EXERCISE  
INSPECTION REPORT 05000266/2010502(DRS); 05000301/2010502(DRS)

Dear Mr. Meyer:

On October 29, 2010, the U. S. Nuclear Regulatory Commission (NRC) completed a Baseline Emergency Preparedness Biennial Exercise inspection at your Point Beach Nuclear Plant, Units 1 and 2. The enclosed report documents the results of this inspection, which were discussed on October 29, 2010, 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.

Based on the results of this inspection, no NRC-identified and no self-revealed findings of very low safety significance were identified.

In accordance with 10 CFR 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)

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Sincerely,

**/RA/**

Hironori Peterson, Chief  
Operations Branch  
Division of Reactor Safety

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

Enclosure: Inspection Report 05000266/2010502;  
05000301/2010502  
w/Attachment: Supplemental Information

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U. S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket Nos: 05000266; 05000301

License Nos: DPR-24; DPR-27

Report No: 05000266/2010502; 05000301/2010502

Licensee: NextEra Energy Point Beach, LLC

Facility: Point Beach Nuclear Plant, Units 1 and 2

Location: Two Rivers, Wisconsin

Dates: October 25 through 29, 2010

Inspectors: Robert Jickling, Sr. Emergency Preparedness Inspector  
Charles Zoia, Operations Engineer  
Rob Ruiz, Resident Inspector

Approved by: Hironori Peterson, Chief  
Operations Branch  
Division of Reactor Safety

Enclosure

## **SUMMARY OF FINDINGS**

IR 05000266/2010502, 05000301/2010502; 10/25/2010 – 10/29/2010; Point Beach Nuclear Plant, Units 1 and 2; Baseline Emergency Preparedness Biennial Exercise Inspection

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 (IMC) 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 of significance were identified.

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

No violations of significance were identified.

## **REPORT DETAILS**

### **1. REACTOR SAFETY**

#### **Cornerstones: Emergency Preparedness**

#### **1EP1 Exercise Evaluation (71114.01)**

##### **.1 Exercise Evaluation**

##### **a. Inspection Scope**

The inspectors reviewed the October 26, 2010, biennial emergency preparedness exercise's objectives and scenario to ensure that 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 2008, 2009, and 2010, to verify that those drills' scenarios were sufficiently different from the scenario used in the October 26, 2010 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, interfaces with offsite officials, 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) 71114.01-05.

##### **b. Findings**

No findings of significance were identified.

#### 4. OTHER ACTIVITIES

##### 4OA1 Performance Indicator (PI) Verification (71151)

###### .1 Drill/Exercise Performance

###### a. Inspection Scope

The inspectors sampled licensee submittals for the Drill/Exercise Performance PI for the period from the fourth quarter 2009 through third quarter 2010. 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 6, were used. The inspectors reviewed the licensee's records associated with the performance indicator 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 of significance 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 period from the fourth quarter 2009 through third quarter 2010. 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 6, were 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 2008 through 2010 exercises and drills; and revisions of the roster of personnel assigned to key emergency response organization 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 of significance 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 period from the fourth quarter 2009 through third quarter 2010. 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 6, were 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 alert and notification system sample as defined in IP 71151-05.

b. Findings

No findings of significance were identified.

4OA6 Management Meetings

.1 Exit Meeting Summary

On October 29, 2010, the inspectors presented the inspection results to you 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.

ATTACHMENT: SUPPLEMENTAL INFORMATION

## **SUPPLEMENTAL INFORMATION**

### **KEY POINTS OF CONTACT**

#### Licensee

L. Meyer, Site Vice President  
S. Brown, Program Engineering Manager  
B. Castiglia, Performance Improvement Manager  
D. Craine, Radiation Protection Manager  
A. Fitzgerald, Emergency Preparedness Coordinator  
F. Flentje, Licensing Supervisor  
R. Harrsch, Operations Manager  
C. Hill, Operations Training Manager  
R. Johnson, Senior Emergency Preparedness Coordinator  
J. Kenney, Maintenance General Supervisor  
D. Lauterbur, Training Manager  
K. Longston, Emergency Preparedness Coordinator  
M. Maertens, Business Operations Manager  
A. Mitchell, System Engineering Manager  
D. Mothena, Corporate Emergency Preparedness Director  
J. Pierce, Chemistry Manager  
J. Pruitt, Acting Nuclear Oversight Manager  
J. Schleif, Emergency Preparedness Manager  
J. Schweitzer, Assistant Operations Manager  
T. Vehec, Plant General Manager  
B. Wright, Work Management Manager

#### Nuclear Regulatory Commission

S. Burton, Senior 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 inspector 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 Evaluated Exercise Manual; October 20, 2010  
Point Beach Nuclear Plant Emergency Plan; September 22, 2010  
EPIP 1.2.1; Emergency Action Level Technical Basis; Revision 5  
Two Years of Corrective Action Program Drill and Exercise Items; December 2008 – October 2010  
Two Years of Drill and Exercise Scenario Timelines; December 2008 – October 2010  
AR 01183378; Exercise-JPIC Activation Greater Than 1 Hour; October 27, 2010  
AR 01183412; Exercise-ORO Personnel Responded to JPIC without Credentials; October 27, 2010  
AR 01183418; Exercise-Delays in CR Simulator Notifications; October 27, 2010  
AR 01183422; Exercise-Field Team Controller Provided Data Too Early; October 27, 2010  
AR 01183424; Exercise-Initial NARS Notification Delayed; October 27, 2010  
AR 01183427; Exercise-Simulator Phones Malfunctioned during Exercise; October 27, 2010  
AR 01183429; Exercise-Communications Protocol for Security Conditions; October 27, 2010  
AR 01183430; Exercise-Issues with Exercise Evacuation at Alert; October 27, 2010  
AR 01183440; Exercise-NARS Form Does Not Include Time for Release; October 27, 2010  
AR 01183465; Exercise-ERO Personnel Did Not Hear Plant Evacuation Alarm; October 27, 2010  
AR 01183473; Exercise-GE Classification and Release Update Conflict; October 28, 2010  
AR 01183481; Exercise-Classifications Need to Be Made As Soon As Possible; October 28, 2010

### 4OA1 Performance Indicator Verification

EPG 1.1; Drill and Exercise Performance Evaluation Forms; October 2009 – September 2010  
EMP 6.0; Alert and Notification System Test Data; October 2009 – September 2010

M04; Siren Full Test 1<sup>st</sup> Wednesday for NRC PIs; October 2009 – September 2010

M05; Siren Site Growl Test 3<sup>rd</sup> Wednesday for NRC PIs; October 2009 – September 2010

M15; Collection of Drill/Exercise Performance Indicator Data; October 2009 – September 2010

M16; Collection of Participation Performance Indicator Data; December 2009 – September 2010

NP 5.2.16; NRC Performance Indicators; December 2009 – September 2010

Alert and Notification System PI Reliability Monthly Records; October 2009 – September 2010

## **LIST OF ACRONYMS USED**

ADAMS	Agency-wide Documents Access and Management System
ANS	Alert and Notification System
AR	Action Request
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
GE	General Emergency
IMC	Inspection Manual Chapter
IP	Inspection Procedure
JPIC	Joint Public Information Center
NARS	Nuclear Accident Report System
NEI	Nuclear Energy Institute
NRC	U. S. Nuclear Regulatory Commission
ORO	Offsite Response Organization
PARS	Publicly Available Records
PI	Performance Indicator
SDP	Significance Determination Process
TSC	Technical Support Center

L. Meyer

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component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

**/RA/**

Hironori Peterson, Chief  
Operations Branch  
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