



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I**  
2100 RENAISSANCE BOULEVARD, SUITE 100  
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

December 19, 2012

Mr. Robert G. Smith  
Site Vice President  
Entergy Nuclear Operations, Inc.  
Pilgrim Nuclear Power Station  
600 Rocky Hill Road  
Plymouth, MA 02360-5508

**SUBJECT: PILGRIM NUCLEAR POWER STATION – NRC EVALUATED EMERGENCY  
PREPAREDNESS EXERCISE – INSPECTION REPORT NO.  
05000293/2012503**

Dear Mr. Smith:

On November 9, 2012, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection of the November 7, 2012, evaluated emergency preparedness exercise at your Pilgrim Nuclear Power Station. The enclosed inspection report documents the inspection results, which were discussed on November 9, 2012, with Mr. V. Fallacara, Site Director of Engineering, 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 findings were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and 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 (PARS) component of the NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

A handwritten signature in black ink, appearing to read "Anthony Dimitriadis".

Anthony Dimitriadis, Chief  
Plant Support Branch 1  
Division of Reactor Safety

Docket No. 50-293  
License No. DPR-35

Mr. Robert G. Smith  
 Site Vice President  
 Entergy Nuclear Operations, Inc.  
 Pilgrim Nuclear Power Station  
 600 Rocky Hill Road  
 Plymouth, MA 02360-5508

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Sincerely,

*/RA/*

Anthony Dimitriadis, Chief  
 Plant Support Branch 1  
 Division of Reactor Safety

Docket No. 50-293  
 License No. DPR-35

DOCUMENT NAME: G:\DRS\Plant Support Branch 1\Barr\EP Ex12 Pilgrim\Pilgrim EP EX 2012 Report.docx  
 ADAMS ACCESSION NUMBER: ML12355A076

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OFFICE	RI/DRS	RI/DRP	RI/DRS		
NAME	SBarr/ECB for	RBellamy/TCS for	ADimitriadis		
DATE	12/19/12	12/19/12	12/19/12		

OFFICIAL RECORD COPY

R. Smith

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Enclosure:  
NRC Inspection Report No. 05000293/2012503

cc w/encl:  
S. Colman, RAC Chair, FEMA Region I

cc w/encl: Distribution via ListServ

U.S. NUCLEAR REGULATORY COMMISSION

REGION I

Docket No.: 50-293

License No.: DPR-35

Report No.: 05000293/2012503

Licensee: Entergy Nuclear Operations, Inc.

Facility: Pilgrim Nuclear Power Station (PNPS)

Location: 600 Rocky Hill Road  
Plymouth, MA 02360

Dates: November 5 - 9, 2012

Inspectors: S. Barr, Sr. Emergency Preparedness Inspector, DRS, Region I (Lead)  
T. Jackson, Sr. Health Physicist, DRS, Region I  
D. Everhart, Physical Security Inspector, DRS, Region I  
B. Smith, Resident Inspector, DRP, Region I

Approved By: Anthony Dimitriadis, Chief  
Plant Support Branch 1  
Division of Reactor Safety

Enclosure

## SUMMARY OF FINDINGS

IR 05000293/2012503; 11/5/2012-11/9/2012; Pilgrim Nuclear Power Station; Exercise Evaluation; Emergency Preparedness Performance Indicators.

This was an announced inspection conducted by three region-based inspectors and one resident inspector. 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.

### **Cornerstone: Emergency Preparedness**

A. NRC-Identified and Self-Revealing Findings

No findings were identified.

B. Licensee-Identified Findings

None.

## REPORT DETAILS

### 1. REACTOR SAFETY

Cornerstone: Emergency Preparedness (EP)

#### 1EP1 Exercise Evaluation (71114.01 – 1 Sample)

##### a. Inspection Scope

Prior to the November 7, 2012, emergency preparedness exercise, the NRC inspectors conducted an in-office review of the exercise objectives and scenario, which Entergy had submitted to the NRC, to determine if the exercise would test major elements of the Pilgrim Nuclear Power Station (PNPS) emergency plan as required by Title 10 of the *Code of Federal Regulations* (10 CFR) 50.47(b)(14). This overall exercise inspection activity represented the completion of one sample on a biennial cycle.

The exercise evaluation consisted of the following review and assessment:

- The adequacy of Entergy's performance in the biennial full-participation exercise regarding the implementation of the risk-significant planning standards (RSPS) described in 10 CFR 50.47(b)(4), (5), (9), and (10), which are: emergency classification; offsite notification; radiological assessment; and, protective action recommendations, respectively.
- The overall adequacy of Entergy's Pilgrim emergency response facilities with regard to NUREG-0696, "Functional Criteria for Emergency Response Facilities," and Emergency Plan commitments. The facilities assessed were the Control Room Simulator, Technical Support Center (TSC), and Emergency Operations Facility (EOF).
- A review of other performance areas, such as: the emergency response organization's (ERO's) recognition of abnormal plant conditions; command and control; intra- and inter-facility communications; prioritization of mitigating activities; utilization of repair and field monitoring teams; interface with offsite agencies; staffing and procedure adequacy; and, the overall implementation of the emergency plan and its implementing procedures.
- A review of past performance issues from the last NRC PNPS exercise inspection report and Entergy's Pilgrim EP drill reports, to determine the effectiveness of licensee corrective actions as demonstrated during the November 7, 2012, exercise and to ensure compliance with 10 CFR 50.47(b)(14).

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- The licensee's post-exercise critiques, to evaluate Entergy's self-assessment of the Pilgrim ERO performance during the November 7, 2012, exercise and to ensure compliance with 10 CFR 50, Appendix E, Section IV.F.2.g.

The inspectors reviewed the documents listed in the attachment to this report.

b. Findings

No findings were identified.

**4. OTHER ACTIVITIES (OA)**

4OA1 Performance Indicator (PI) Verification (71151 – 3 Samples)

a. Inspection Scope

The inspectors reviewed data for the Pilgrim EP PIs, which are: (1) Drill and Exercise Performance (DEP); (2) Emergency Response Organization (ERO) Drill Participation; and, (3) Alert and Notification System (ANS) Reliability. The last EP inspection at Pilgrim was conducted in the third calendar quarter of 2011, so the inspectors reviewed supporting documentation from EP drills and tests from the third and fourth calendar quarters of 2011, and the first, second and third calendar quarters of 2012, to verify the accuracy of the reported PI data. The review of these PIs was conducted in accordance with NRC Inspection Procedure 71151, using the acceptance criteria documented in NEI 99-02, "Regulatory Assessment Performance Indicator Guidelines," Revision 6.

This inspection activity represented the completion of three samples.

b. Findings

No findings were identified.

4OA6 Meetings, including Exit

On November 9, 2012, the inspectors presented the results of this inspection to Mr. V. Fallacara, the PNPS Director of Engineering, and other members of the Entergy staff. No proprietary information was provided to the inspectors during this inspection.

**ATTACHMENT**  
**SUPPLEMENTAL INFORMATION**  
**KEY POINTS OF CONTACT**

**Licensee Personnel**

V. Fallacara, Director, Engineering  
T. White, Manager, Emergency Preparedness

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

None

**LIST OF DOCUMENTS REVIEWED**

**Section 1EP1: Exercise Evaluation**

EP-PP-01, Pilgrim Nuclear Power Station Emergency Plan (Revision 37)  
PNPS Emergency Plan Implementing Procedures  
PNPS Emergency Plan Administrative Procedures  
PNPS November 7, 2012, Emergency Exercise Scenario Package  
PNPS Emergency Preparedness Drill Reports, January 2011 – October 2012  
November 7, 2012, NRC EP Evaluated Exercise Report 12-05, describing all  
Condition Reports from the exercise

**Section 4OA1: Performance Indicator Verification**

EN-EP-201, Performance Indicators (Revision 12)  
EN-LI-114, Performance Indicator Process (Revision 6)  
DEP PI data, July 2011 – September 2012  
ERO Drill Participation PI data, July 2011 – September 2012  
ANS Reliability PI data, July 2011 – September 2012

Enclosure



**LIST OF ACRONYMS**

ADAMS	Agencywide Documents Access Management and Systems
ANS	Alert Notification System
DEP	Drill and Exercise Performance
CFR	Code of Federal Regulations
EAL	Emergency Action Level
EOF	Emergency Operations Facility
EP	Emergency Preparedness
ERO	Emergency Response Organization
NRC	Nuclear Regulatory Commission
PARS	Publicly Available Records
PI	Performance Indicator
PNPS	Pilgrim Nuclear Power Station
RSPS	Risk Significant Planning Standard
TSC	Technical Support Center