



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

September 5, 2012

Mr. Michael J. Pacilio  
Senior Vice President, Exelon Generation Company, LLC  
President and Chief Nuclear Officer, Exelon Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

SUBJECT: LASALLE COUNTY STATION, UNITS 1 AND 2;  
BASELINE EMERGENCY PREPAREDNESS BIENNIAL EXERCISE  
INSPECTION REPORT 05000373/2012503; 05000374/2012503

Dear Mr. Pacilio:

On August 3, 2012, the U.S. Nuclear Regulatory Commission (NRC) completed a Baseline Emergency Preparedness Biennial Exercise inspection at your LaSalle County Station, Units 1 and 2. The enclosed report documents the inspection results which were discussed on August 3, 2012, with the Site Vice President, Mr. D. Rhoades, 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 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) component of NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at [http://www.nrc.gov/reading\\_rm/adams.html](http://www.nrc.gov/reading_rm/adams.html) (the Public Electronic Reading Room).

Sincerely,

*/RA/*

Mel Holmberg, Acting Chief  
Plant Support Branch  
Division of Reactor Safety

Docket Nos. 50-373; 50-374  
License Nos. NPF-11; NPF-18

Enclosure: Inspection Report 05000373/2012503; 05000374/2012503  
w/Attachment: Supplemental Information

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U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket Nos: 05000373; 05000374  
License Nos: NPF-11; NPF-18

Report No: 05000373/2012503; 05000374/2012503

Licensee: Exelon Generation Company, LLC

Facility: LaSalle County Station, Units 1 and 2

Location: Marseilles, IL

Dates: July 30 through August 3, 2012

Inspectors: R. Jickling, Senior Emergency Preparedness Inspector  
J. Beavers, Emergency Preparedness Inspector  
S. Burton, Senior Resident Inspector  
B. Kemker, Senior Resident Inspector  
R. Kahler, Branch Chief, Division of Preparedness  
and Response

Approved by: M. Holmberg, Acting Chief  
Plant Support Branch  
Division of Reactor Safety

Enclosure

## SUMMARY OF FINDINGS

IR 05000373/2012503, 05000374/2012503; 07/30/2012 – 08/03/2012; LaSalle County Station, 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, one Nuclear Safety and Incident Response branch chief, and two senior resident inspectors. 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**

No violations were identified.

## REPORT DETAILS

### 1. REACTOR SAFETY

#### Cornerstone: Emergency Preparedness

#### 1EP1 Exercise Evaluation (71114.01)

##### .1 Exercise Evaluation

##### a. Inspection Scope

The inspectors reviewed the August 1, 2012, biennial emergency preparedness exercise 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 2010, 2011, and 2012, to verify that those drills' scenarios were sufficiently different from the scenario used in the August 1, 2012, 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);
- Operations Support Center (OSC); 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, OSC, 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 were identified.

#### 4. OTHER ACTIVITIES

##### Cornerstone: Emergency Preparedness

##### 40A1 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 period from the second quarter 2011 through second quarter 2012. 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, 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 period from the second quarter 2011 through second quarter 2012. 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, 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 2011 and 2012 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 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 second quarter 2011 through second quarter 2012. 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, 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 August 3, 2012, the inspectors presented the biennial exercise inspection results to Mr. D. Rhoades and other members of the licensee staff. You acknowledged the issues presented. The inspectors confirmed that none of the potential report input discussed was considered proprietary.

.2 Public and Media Briefing

On August 3, 2012, the inspector summarized the NRC's preliminary exercise inspection conclusions at a public and media briefings hosted by Department of Homeland Security/Federal Emergency Management Agency Region VII Field Office staff at the LaSalle County Emergency Operations Center in Ottawa, Illinois.

ATTACHMENT: SUPPLEMENTAL INFORMATION

## **SUPPLEMENTAL INFORMATION**

### **KEY POINTS OF CONTACT**

#### Licensee

D. Rhoades, Site Vice President

J. Houston, Nuclear Oversight Manager

J. Hughes, Emergency Preparedness Coordinator

K. Rusley, Emergency Preparedness Manager

T. Simpkin, Regulatory Assurance Manager

B. Trafton, Work Control Director

J. Washko, Operations Director

#### Nuclear Regulatory Commission

R. Ruiz, Senior Resident Inspector

F. Ramirez, 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

- Drill and Exercise Evaluation Reports; July 2010 – July 2012
- LaSalle County Drill and Exercise Corrective Action Program Issues; July 2010 — July 2012
- LaSalle County Drill and Exercise Scenario Timelines; July 2010 — July 2012
- LaSalle County Station 2012 NRC Graded Exercise Manual; July 24, 2012
- IR 1401882; Exercise-EOF Problems Included Some Difficulties with Communications Regarding Repair Activities Status, Identifying the Leak, and Plant Priorities
- IR 1401051; Exercise-OSC Problems Included OSC Radiological Access Control, Continuous Personnel Accountability, and Briefings for Several Teams
- IR 1401029; Exercise-TSC Difficulties Were Observed With Dose Assessments
- IR 1400953; Exercise-TSC Problems Tracking Response Teams and Slow Habitability Surveys
- IR 1400931; Exercise-Some Key Information Was Not Briefed to the Simulator Crew
- IR 1400445; Exercise-JIC Conducted No Formal Facility Briefings or Updates to Review Significant Events and Priorities

### 4OA1 Performance Indicator Verification

- LS-AA-2110; Monthly Data Elements for NRC ERO Drill Participation; June 2011 — June 2012
- LS-AA-2120; Monthly Data Elements for NRC Drill/Exercise Performance; April 2011 — June 2012
- EP-AA-125-1002; Drill and Exercise Performance Indicator Summaries; March — December 2011
- EP-AA-125-1003; Key ERO Participation and Stability Monthly Data Reporting Elements; March — December 2011
- LS-AA-2130; Monthly Data Elements for NRC Alert and Notification System Reliability; April 2011 — June 2012
- IR 01320551; Standardized Emergency Plan Did Not Match the Siren Test Plan; January 31, 2012



## LIST OF ACRONYMS USED

ADAMS	Agencywide Documents Access 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	Identification and Resolution
JIC	Joint Information Center
NEI	Nuclear Energy Institute
NRC	U.S. Nuclear Regulatory Commission
OSC	Operations Support Center
PARS	Publicly Available Records System
PI	Performance Indicator
SDP	Significance Determination Process
TSC	Technical Support Center

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Senior Vice President, Exelon Generation Company, LLC  
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Mel Holmberg, Acting Chief  
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