



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

August 18, 2016

Mr. Bryan C. Hanson
Senior VP, Exelon Generation Company, LLC
President and CNO, Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: LASALLE COUNTY STATION, UNITS 1 AND 2 – BASELINE EMERGENCY
PREPAREDNESS BIENNIAL EXERCISE INSPECTION REPORT
05000373/2016502; 05000374/2016502

Dear Mr. Hanson:

On July 21, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your LaSalle County Station, Units 1 and 2. The enclosed report documents the results of this inspection which were discussed on July 21, 2016, with Mr. W. Trafton and other members of your staff.

No findings were identified during this inspection.

In accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding," 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's Public Document Room or from the Publicly Available Records (PARS) component of the 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> (the Public Electronic Reading Room).

Sincerely,

/RA/

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

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

Enclosure:
IR 05000373/2016502; 05000374/2016502

cc: Distribution via LISTSERV®

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

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

Report No: 05000373/2016502; 05000374/2016502

Licensee: Exelon Generation Company, LLC

Facility: LaSalle County Station, Units 1 and 2

Location: Marseilles, IL

Dates: July 18 – 21, 2016

Inspectors: G. Hansen, Senior Emergency Preparedness Inspector
M. Garza, Emergency Preparedness Inspector
R. Elliott, Resident Inspector
B. Boston, Emergency Response Specialist
T. Smith, Emergency Preparedness Specialist

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

Enclosure

SUMMARY

IR 05000373/2016502; 05000374/2016502; 07/18/2016 – 07/21/2016; LaSalle County Station, Units 1 and 2; Baseline Emergency Preparedness Exercise Evaluation; Exercise Evaluation Scenario Review; and Performance Indicator Verification.

This report covers a 1-week period of announced baseline inspection by four Region III inspectors and one Headquarters Emergency Preparedness Specialist. The U.S. Nuclear Regulatory Commission's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 5, dated February 2014.

NRC-Identified and Self-Revealed Findings

Cornerstone: Emergency Preparedness

No findings were identified.

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 July 20, 2016, 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 2014, 2015, and 2016, to verify that those drills' scenarios were sufficiently different from the scenario used in the July 20, 2016, exercise.

The inspectors observed and 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.

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 U.S. Nuclear Regulatory Commission (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 Title 10 of the *Code of Federal Regulations* 50.47(b)(14).

Documents reviewed are listed in the Attachment to this report.

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

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 (DEP) Performance Indicator (PI) for the period from the first quarter of 2015 through the first quarter of 2016. To determine the accuracy of the PI data reported during this period, PI definitions and guidance contained in Nuclear Energy Institute (NEI) 99-02, “Regulatory Assessment Performance Indicator Guideline,” Revision 7, 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, 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 DEP sample as defined in IP 71151.

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 first quarter of 2015 through the first quarter of 2016. To determine the accuracy of the PI data reported during this period, PI definitions and guidance contained in NEI 99-02, "Regulatory Assessment Performance Indicator Guideline," Revision 7, 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 2015 and 2016 drill, 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.

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 first quarter of 2015 through the first quarter of 2016. To determine the accuracy of the PI data reported during this period, PI definitions and guidance contained in NEI 99-02, "Regulatory Assessment Performance Indicator Guideline," Revision 7, 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 ANS sample as defined in IP 71151.

b. Findings

No findings were identified.

4OA6 Management Meetings

.1 Exit Meeting Summary

On July 21, 2016, the inspectors presented the biennial exercise inspection results to Mr. W. Trafton, 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

W. Trafton, Site Vice President
H. Vinyard, Plant Manager
G. Ford, Regulatory Assurance Manager
M. Hayworth, Emergency Preparedness Manager
J. Kernan, Operations Director
K. Aleshire, Emergency Preparedness Director (Corporate)
A. Daniels, Midwest Emergency Preparedness Director (Corporate)
E. Maloni, Corporate Emergency Preparedness
G. Brummelow, Emergency Preparedness Coordinator
J. Kowalski, Engineering Director
M. Peltier, Maintenance Support Manager
C. Wilson, Security Manager
J. Stovall, Work Management Director

U.S. Nuclear Regulatory Commission

R. Ruiz, Senior Resident Inspector
J. Robbins, 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 (71114.01)

LaSalle County Station 2016 NRC Graded Exercise; Dated July 20, 2016

EP-AA-1000; Exelon Nuclear Standardized Radiological Emergency Plan; Revision 28

EP-AA-1005; Exelon Nuclear Radiological Emergency Plan Annex for LaSalle Station; Revision 39

EP-AA-110; Assessment of Emergencies; Revision 10

EP-AA-110-200; Dose Assessment; Revision 7

EP-AA-111; Emergency Classification and Protective Action Recommendations; Revision 11

EP-AA-112; Emergency Response Organization (ERO) / Emergency Response Facility Activation and Operation; Revision 18

EP-AA-112-200; TSC Activation and Operation; Revision 10

EP-AA-112-300; Operations Support Center Activation and Operation; Revision 9

EP-AA-113; Personnel Protective Actions; Revision 11

EP-AA-114; Notifications; Revision 12

Two-Year List of Drill and Exercise Condition Reports; Dated July 2014 – July 2016

Two-Year of Drill and Exercise Timelines; Dated July 2014 – July 2016

NOSA-LAS-16-03; Emergency Preparedness Audit Report; Dated April 27, 2016

FASA-AR 2623506; Pre-2016 NRC EP Exercise/Drill Evaluation Inspection; Dated May 11, 2016

AR 01680229; Greater Than 60-Minute Response to the Call-in Drill; Dated July 9, 2014

AR 01697408; EP 2014 Technical Support Center ERO Performance; Dated August 28, 2014

AR 01697414; EP 2014 Operational Support Center ERO Performance; Dated August 28, 2014

AR 02437478; Key ERO Members Incorrectly Given Participation Credit; Dated January 14, 2015

AR 02469138; EP Process not Followed; Dated March 16, 2015

AR 02472859; Guidance Change on Seismic Monitor Reportability; Dated March 23, 2015

AR 02508918; EP-2Q15 LORT – EP PI Drill Follow-up Issues-TSC; Dated June 2, 2016

AR 02652476; D ERO Team Muster Failed to Meet Expectations; Dated March 7, 2016
AR 02678387; Potential Trend Identified in ERO Muster Attendance; Dated June 6, 2016
AR 02694961; Security Action Alert Reader Issue; Dated July 20, 2016
AR 02694970; EP Readiness Category 1 TSC PA; Dated July 20, 2016
AR 02695272; LAS-EP-2016-NRC-OSC Failed DCs; Dated July 21, 2016
AR 02695297; LAS-EP-2016-NRC-JIC Failed DC; Dated July 21, 2016
AR 02695356; LAS-EP-2016-NRC-TSC Failed DC; Dated July 21, 2016
AR 02695368; LAS-EP-2016-NRC-OSC-Other Issue; Dated July 21, 2016

1EP8 Exercise Evaluation – Scenario Review (71114.08)

LaSalle County Station 2016 NRC Graded Exercise 60-Day Submittal;
Dated May 20, 2016

4OA1 Performance Indicator Verification (71151)

NRC Performance Indicator Data; Drill/Exercise Performance; First Quarter of 2015 –
First Quarter of 2016

NRC Performance Indicator Data; Emergency Response Organization Drill Participation;
First Quarter of 2015 – First Quarter of 2016

NRC Performance Indicator Data; Alert and Notification System Reliability; First Quarter
of 2015 – First Quarter of 2016

NEI 99-02; Regulatory Assessment Performance Indicator Guideline; Revision 7

LIST OF ACRONYMS USED

ADAMS	Agencywide Documents Access and Management System
ANS	Alert and Notification System
CRS	Control Room Simulator
DEP	Drill and Exercise Performance
EOF	Emergency Operations Facility
ERO	Emergency Response Organization
IP	Inspection Procedure
NEI	Nuclear Energy Institute
NRC	U.S. Nuclear Regulatory Commission
OSC	Operational Support Center
PARS	Publicly Available Records System
PI	Performance Indicator
TSC	Technical Support Center

August 18, 2016

Mr. Bryan C. Hanson
Senior VP, Exelon Generation Company, LLC
President and CNO, Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: LASALLE COUNTY STATION, UNITS 1 AND 2 – BASELINE EMERGENCY
PREPAREDNESS BIENNIAL EXERCISE INSPECTION REPORT
05000373/2016502; 05000374/2016502

Dear Mr. Hanson:

On July 21, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your LaSalle County Station, Units 1 and 2. The enclosed report documents the results of this inspection which were discussed on July 21, 2016, with Mr. W. Trafton and other members of your staff.

No findings were identified during this inspection.

In accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding," 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's Public Document Room or from the Publicly Available Records (PARS) component of the 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> (the Public Electronic Reading Room).

Sincerely,

/RA/

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

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

Enclosure:
IR 05000373/2016502; 05000374/2016502

cc: Distribution via LISTSERV®

DISTRIBUTION w/encl:
See next page

ADAMS Accession Number : ML16235A158

Publicly Available Non-Publicly Available Sensitive Non-Sensitive

To receive a copy of this document, indicate in the concurrence box "C" = Copy without attach/encl "E" = Copy with attach/encl "N" = No copy

OFFICE	RIII	RIII	RIII	RIII
NAME	GHansen:jw	SOrth for DFunk	SOrth	
DATE	08/18/16	08/18/16	08/18/16	

OFFICIAL RECORD COPY

Letter to Bryan C. Hanson from Steven K. Orth dated August 18, 2016

SUBJECT: LASALLE COUNTY STATION, UNITS 1 AND 2 – BASELINE EMERGENCY
PREPAREDNESS BIENNIAL EXERCISE INSPECTION REPORT
05000373/2016502; 05000374/2016502

DISTRIBUTION w/encl:

Jeremy Bowen

RidsNrrDorLpl3-2 Resource

RidsNrrPMLaSalle

RidsNrrDirslrib Resource

Cynthia Pederson

Darrell Roberts

Richard Skokowski

Allan Barker

Carole Ariano

Linda Linn

DRPIII

DRSIII

ROPreports.Resource@nrc.gov