



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, IL 60532-4352

October 28, 2011

Mr. David A. Heacock
President and Chief Nuclear Officer
Dominion Energy Kewaunee, Inc.
Innsbrook Technical Center
5000 Dominion Boulevard
Glen Allen, VA 23060-6711

SUBJECT: KEWAUNEE POWER STATION BASELINE EMERGENCY PREPAREDNESS
BIENNIAL EXERCISE INSPECTION REPORT 05000305/2011502

Dear Mr. Heacock:

On October 7, 2011, the U. S. Nuclear Regulatory Commission (NRC) completed a Baseline Emergency Preparedness Biennial Exercise inspection at your Kewaunee Power Station. The enclosed report documents the inspection findings, which were discussed on October 7, 2011, with Mr. S. Scace 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 will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

Richard A. Skokowski, Chief
Plant Support Branch
Division of Reactor Safety

Docket No. 50-305
License No. DPR-43

Enclosure: Inspection Report 05000305/2011502
w/Attachment: Supplemental Information

cc w/encl: Distribution via ListServ

U. S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket No: 50-305

License No: DPR-43

Report No: 05000305/20011502

Licensee: Dominion Energy Kewaunee, Inc.

Facility: Kewaunee Power Station

Location: Kewaunee, WI

Dates: October 3 through 7, 2011

Inspectors: R. Jickling, Sr. Emergency Preparedness Inspector
J. Beavers, Emergency Preparedness Inspector
K. Barclay, Resident Inspector

Approved by: Richard A. Skokowski, Chief
Plant Support Branch
Division of Reactor Safety

Enclosure

SUMMARY OF FINDINGS

IR 05000305/2011502(DRS); 10/03/2011 – 10/07/2011; Kewaunee Power Station; 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 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 October 4, 2011, 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 2009, 2010, and 2011, to verify that those drills' scenarios were sufficiently different from the scenario used in the October 4, 2011, 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 Facility (OSF);
- Emergency Operations Facility (EOF); and
- Joint Information Center (JIC)

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 were identified.

4. OTHER ACTIVITIES

Cornerstone: Emergency Preparedness

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 2010 through second quarter 2011. 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 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 2010 through second quarter 2011. 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 2010 and 2011 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 fourth quarter 2010 through second quarter 2011. 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 were identified.

4OA6 Management Meetings

.1 Exit Meeting Summary

On October 7, 2011, the inspectors presented the biennial exercise inspection results to Mr. S. Scace 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 October 7, 2011, 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 V Field Office staff in Algoma, Wisconsin.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION
KEY POINTS OF CONTACT

Licensee

S. Scace, Site Vice President
T. Breene, Licensing Manager
J. Egdorf, Emergency Preparedness Supervisor
M. Haese, Licensing
M. Hale, Radiation Protection Manager
B. Harris, Emergency Preparedness Manager
J. Helbing, Maintenance Assistant Manager
W. Hoffner, Fleet Emergency Preparedness Manager
J. Langan, Nuclear Oversight Manager
T. Olson, Engineering Programs Manager
J. Stafford, Safety and Licensing Manager
L. Walesh, Protection Services Supervisor
S. Yuen, Engineering Director

Nuclear Regulatory Commission

K. Barclay, Resident Inspector

LIST OF ITEMS OPENED, CLOSED AND DISCUSSED

Opened, Closed and Discussed

None

LIST OF DOCUMENTS REVIEWED

The following is a 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

List of Two Years of Corrective Action Program Drill and Exercise Issues; June 2009 – September 2011

Two Years of Drill and Exercise Scenario Timelines; June 2009 – September 2011

Kewaunee Power Station October 4, 2011 Exercise Scenario Package; September 2011

Kewaunee Power Station Emergency Plan; Revision 36

EPIP-AD-01; Personnel Response to the Plant Emergency; Revision 20

EPIP-AD-02; Emergency Class Determination; Revision 46

EPIP-AD-07; Emergency Notifications; Revision 57

EPIP-AD-11; Emergency Radiation Controls Revision 23

EPIP-AD-18; Potassium Iodide Distribution; Revision 20

EPIP-AD-19; Determining Protective Action; Revision 28

EPIP-CR-01; Control Room Emergency Response; Revision 5

EP-KW-ENV-001; Guidelines for using PC-MIDAS; Revision 3

EPIP-EOF-04; Emergency Operations Facility; Revision 45

EPIP-OSF-02; Operational Support Facility Operations; Revision 26

EPIP-SEC-03; Personnel Assembly and Accountability; Revision 40

EPIP-TSC-01; Technical Support Center Organization and Responsibilities; Revision 25

EPIP-TSC-09A; Core Damage Assessment; Revision 17

CR 446241; Exercise-Evaluate the Timeliness of Press Releases

CR 446318; Exercise-a) Dose Projection with Incorrect Core Damage Assumption

CR 446318; Exercise-b) Dose Assessment Filter Selection Confusion

CR 446318; Exercise-c) Clad Damage Versus Core Damage Communications Problem

CR 446350; Exercise-Incorrect Time Entered On Site Area Emergency NRC Form

4OA1 Performance Indicator Verification

DNAP; Emergency Preparedness Performance Indicators; October 2010 – June 2011

Monthly Drill and Exercise Performance Records; October 2010 – June 2011

Monthly ERO Participation Records; December 2010 – June 2011
Kewaunee Participation NEI Records; December 2010 – June 2011
Emergency Preparedness Attendance Records; December 2010 – June 2011
Alert and Notification System Monthly Records; October 2010 – June 2011

LIST OF ACRONYMS USED

ADAMS	Agency-wide Documents Access and Management System
ANS	Alert and Notification System
CRS	Control Room Simulator
DRS	Division of Reactor Safety
EOF	Emergency Operations Facility
ERO	Emergency Response Organization
IMC	Inspection Manual Chapter
IP	Inspection Procedure
JIC	Joint Information Center
NEI	Nuclear Energy Institute
NRC	U. S. Nuclear Regulatory Commission
OSF	Operations Support Facility
PARS	Publicly Available Records
PI	Performance Indicator
SDP	Significance Determination Process
TSC	Technical Support Center

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DATE	10/27/2011	10/27/2011	10/27/2011	10/28/2011			

OFFICIAL RECORD COPY

Letter to David A. Heacock from Richard A. Skokowski dated October 28, 2011.

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BIENNIAL EXERCISE INSPECTION REPORT 05000305/20011502

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