



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

June 3, 2011

Mr. Barry Allen
Site Vice President
FirstEnergy Nuclear Operating Company
Davis-Besse Nuclear Power Station
5501 North State Route 2, Mail Stop A-DB-3080
Oak Harbor, OH 43449-9760

**SUBJECT: DAVIS-BESSE NUCLEAR POWER STATION BASELINE EMERGENCY
PREPAREDNESS BIENNIAL EXERCISE INSPECTION REPORT
05000346/2011502(DRS)**

Dear Mr. Allen:

On May 13, 2011, the U. S. Nuclear Regulatory Commission (NRC) completed a Baseline Emergency Preparedness Biennial Exercise inspection at your Davis-Besse Nuclear Power Station. The enclosed inspection report documents the inspection findings which were discussed on May 13, 2011, 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 findings of significance 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 made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of

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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/

Hironori Peterson, Chief
Operations Branch
Division of Reactor Safety

Docket No. 50-346
License No. NPF-3

Enclosure: Inspection Report 05000346/2011502(DRS)
w/Attachment: Supplemental Information

cc w/encl: Distribution via ListServ

U. S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket No: 50-346

License No: NPF-3

Report No: 05000346/2011502(DRS)

Licensee: FirstEnergy Nuclear Operating Company (FENOC)

Facility: Davis-Besse Nuclear Power Station

Location: Oak Harbor, OH

Dates: May 9 through 13, 2011

Inspectors: Robert Jickling, Sr. Emergency Preparedness Inspector
James Beavers, Emergency Preparedness Inspector
Adam Wilson, Resident Inspector

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

Enclosure

SUMMARY OF FINDINGS

IR 05000346/2011502; 05/09/2011 – 05/13/2011; Davis-Besse Nuclear 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 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 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 May 10, 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 May 10, 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); 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 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 first quarter 2010 through first 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 first quarter 2010 through first 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 through 2011 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 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 2010 through first 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 May 13, 2011, 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.

.2 Public and Media Briefing

On May 13, 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 at the Ottawa County Building in Port Clinton, Ohio.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee

B. Allen, Site Vice President
B. Boles, Site Operations Director
K. Byrd, Performance Improvement Director
R. Collings, Fleet Emergency Preparedness
B. Cope, Senior Emergency Response Specialist
D. Dewitz, Senior Emergency Response Specialist
J. Dominy, Maintenance Director
R. Henszey, Fleet Emergency Preparedness
R. Hovland, Training Manager
V. Kaminskas, Engineering Director
P. McCloskey, Site Regulatory Compliance Manager
R. Merchens, Site Protection Administrator
D. Missig, Mechanical Maintenance Superintendent
C. Moore, Design Engineering Supervisor
C. Price, Special Projects Director
M. Roelant, Site Projects Manager
D. Saltz, Maintenance Manager
S. Steagall, Fleet Oversight Manager
S. Trickett, Radiation Protection Superintendent
P. Smith, Emergency Response Specialist
T. Summers, Plant Engineering Manager
G. VanWey, Emergency Response Specialist
J. Vetter, Emergency Response Manager
V. Wadsworth, Regulatory Compliance Specialist
A. Wise, Technical Services Manager
G. Wolf, Regulatory Compliance Supervisor

Nuclear Regulatory Commission

A. Wilson, 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

Davis-Besse Nuclear Power Station Emergency Plan; Section 5.0; Organizational Control of Emergencies; Revision 27

Two Years of Corrective Action Program Drill and Exercise Items; May 2009 – May 2011

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

RA-EP-00200; Emergency Plan Drill and Exercise Program; Revision 11

RA-EP-01500; Emergency Classification; Revision 13

RA-EP-01700; Alert; Revision 5

RA-EP-01800; Site Area Emergency; Revision 4

RA-EP-01900; General Emergency; Revision 6

RA-EP-02010; Emergency Management; Revision 12

RA-EP-02110; Emergency Notification; Revision 10

RA-EP-02220; Emergency Operations Facility Activation and Response; Revision 8

RA-EP-02230; Dose Assessment Center Activation and Response; Revision 4

RA-EP-02240; Offsite Dose Assessment; Revision 5

RA-EP-02245; Protective Action Guidelines; Revision 5

RA-EP-02620; Emergency Dose Control and Potassium Iodide Distribution; Revision 5

RA-EP-02710; Reentry; Revision 5

RA-EP-02720; Recovery Organization; Revision 10

DBBP-EMER-0006; Emergency Response Organization (ERO) Guidance for Emergency Response; Revision 9

DBBP-EMER-0007; Drill/Exercise Objective Evaluation Guidelines; Revision 1

CR 11-94617; Exercise-OSC Briefing Forms Not Filled Out Completely

CR 11-94585; Exercise-Confusion Regarding the Non-Routine Releases in the Scenario; May 11, 2011

CR 11-94578; Exercise-Accurate Expected Durations for the Releases Were Not Pursued in a Timely Manner; May 11, 2011

CR 11-94575; Exercise-Too Many Mechanics Were Released as Non-Essentials; May 10, 2011

CR 11-94568; Exercise-Scenario Improvement Items; May 10, 2011

CR 11-94560; Exercise-Public Announcement for Alert Did Not Include "This Is A Drill";
May 10, 2011

CR 11-94557; Exercise-Clarify when Event Classification Can Be Briefed in the JIC;
May 10, 2011

CR 11-94556; Exercise-Delay in Understanding the Source of the Release;
May 11, 2011

CR 11-94545; Exercise-Calculation Underestimated Uptake for OSC Team;
May 11, 2011

40A1 Performance Indicator Verification

RA-EP-00400; Prompt Notification System Maintenance; Revision 6

RA-EP-00420; Response to Prompt Notification System Malfunction; Revision 6

NOBP-LP-4012; NRC Performance Indicators; January 2010 – March 2011

NOBP-LP-4012-54; Drill/Exercise Performance Records; January 2010 – March 2011

DBBP-EMER-0002; NRC Performance Indicator for ERO Drill Participation Records;
March 2010 – March 2011
DBBP-EMER-0003; NRC Performance Indicator for ANS
Reliability Records; January 2010 – March 2011

DBEP-082-03; NRC Performance Indicator Documentation Sheets and Records;
January 2010 – March 2011

CR 11-90836; EP Drill-Determine If DEP Opportunity Was Successful for Change in
PARs; March 10, 2011

LIST OF ACRONYMS USED

| | |
|-------|--|
| ADAMS | Agency-wide Documents Access and Management System |
| ANS | Alert and Notification System |
| CFR | Code of Federal Regulations |
| CRS | Control Room Simulator |
| DEP | Drill and Exercise Performance |
| DRS | Division of Reactor Safety |
| EOF | Emergency Operations Facility |
| EP | Emergency Preparedness |
| ERO | Emergency Response Organization |
| GE | General Emergency |
| IP | Inspection Procedure |
| IR | Inspection Report |
| JIC | Joint Information Center |
| NEI | Nuclear Energy Institute |
| NRC | U. S. Nuclear Regulatory Commission |
| PAR | Protective Action Recommendation |
| PARS | Publicly Available Records |
| PI | Performance Indicator |
| SDP | Significance Determination Process |
| TSC | Technical Support Center |

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Sincerely,

/RA/

Hironori Peterson, Chief
Operations Branch
Division of Reactor Safety

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