



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

July 5, 2011

Mr. Jack M. Davis
Senior Vice President and
Chief Nuclear Officer
Detroit Edison Company
Fermi 2 - 210 NOC
6400 North Dixie Highway
Newport, MI 48166

SUBJECT: FERMI POWER PLANT, UNIT 2 BASELINE EMERGENCY PREPAREDNESS
BIENNIAL EXERCISE INSPECTION REPORT 05000341/2011503(DRS)

Dear Mr. Davis:

On June 10, 2011, the U. S. Nuclear Regulatory Commission (NRC) completed a Baseline Emergency Preparedness Biennial Exercise inspection at your Fermi Power Plant, Unit 2. The enclosed report documents the inspection findings, which were discussed on June 10, 2011, with Mr. J. Plona and other members of your staff.

The inspection examined activities conducted under your license as they relate to safety and to 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 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 by M. Bielby for/

Hironori Peterson, Chief
Operations Branch
Division of Reactor Safety

Docket No. 50-341
License No. NPF-43

Enclosure: Inspection Report 05000341/2011503
w/Attachment: Supplemental Information

cc w/encl: Distribution via ListServ

U. S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket No: 50-341

License No: NPF-43

Report No: 05000341/2011503

Licensee: Detroit Edison Company

Facility: Fermi Power Plant, Unit 2

Location: Newport, MI

Dates: June 6 through 10, 2011

Inspectors: Robert Jickling, Sr. Emergency Preparedness Inspector
James Beavers, Emergency Preparedness Inspector
Jack Rutkowski, Project Engineer

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

Enclosure

SUMMARY OF FINDINGS

IR 05000341/2011503; 06/06/2011 – 06/10/2011; Fermi Power Plant, Unit 2; Baseline Emergency Preparedness Biennial Exercise Inspection

This report covers a one week period of announced baseline inspection by three regional 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 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 June 7, 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 2008, 2009, 2010, and 2011, to verify that those drills' scenarios were sufficiently different from the scenario used in the June 7, 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 fourth 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 fourth 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 and 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 fourth 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 June 10, 2011, the inspectors presented the inspection results to Mr. J. Plona 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

J. Plona, Site Vice President
S. Berry, Systems Manager
M. Caragher, Nuclear Engineering Director
W. Colonnello, Nuclear Support Director
J. Davis, Nuclear Training Manger
G. Garber, Radiation Emergency Response Preparedness Supervisor
S. Hanson, Compliance Engineer
S. Hassoun, Licensing Manager
E. Kokowsky, Radiation Protection Manager
J. Korte, Nuclear Security Manager
C. Monday, Radiation Emergency Response Preparedness
A. Moore, Strategy Manger
J. Moyers, Nuclear Quality Assurance Manager
G. Olemacher, Radiation Emergency Response Preparedness Supervisor
S. Reity, Corrective Actions Superintendent
R. Salmon, Compliance Supervisor
K. Scott, Engineering Manger
K. Snyder, Engineering Manager
G. Strobel, Operations Manager
R. Webster, Radiation Emergency Response Preparedness

NRC

R. Jickling, Sr. Emergency Preparedness 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

Radiological Emergency Response Preparedness Plan; Revision 38

Three Years of Corrective Action Program Drill and Exercise Items;
May 2008 - May 2011

Three Years of Drill and Exercise Scenario Timelines; May 2008 – May 2011

EP-101; Classification of Emergencies; Revision 38

EP-103; Alert; Revision 19

EP-104; Site Area Emergency; Revision 18

EP-105; General Emergency; Revision 19

EP-204; Damage Control and Rescue; Revision 11

EP-545; Protective Action Recommendations; Revision 22

EP-290; Emergency Notifications; Revision 53

EP-301-01; Technical Support Center; Revision 20

EP-303-01; Emergency Operations Facility; Revision 14

EP-530; Assembly and Accountability and Onsite Protective Actions; Revision 24

CARD 11-25859; Exercise-Some Log Keeping Not Adequate; June 13, 2011

CARD 11-25856; Exercise-Delay in Declaring EOF Functional; June 13, 2011

CARD 11-25739; Exercise-OSC Accountability Card Readers Problems; June 9, 2011

CARD 11-25737; Exercise-Some OSC RPTs and AOs Did Not Receive All Facility Briefings; June 9, 2011

CARD 11-25674; Exercise-RERP Equipment Not Changed Out Prior to Calibrations Due Date; June 7, 2011

LP-GN-909-1111K; Exercise-Shift 2 Performance Remedial Training; June 7, 2011

40A1 P Performance Indicator Verification

EP-540; Drills and Exercises; Revision 3

EP-560; Alert Notification System-Siren Operation and Maintenance; Revision 3

Monthly ERO Drill Participation Records; December 2010 – March 2011

Monthly Drill/Exercise Performance Totals; October 2010 – March 2011

Monthly Drill/Exercise Performance Records; October 2010 – March 2011
Monthly Siren Test Results; October 2010 – March 2011

LIST OF ACRONYMS USED

ADAMS	Agency-wide Documents Access and Management System
ANS	Alert and Notification System
AOs	Auxiliary Operators
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
OSC	Operations Support Center
PAR	Protective Action Recommendation
PARS	Publicly Available Records
PI	Performance Indicator
RERP	Radiation Emergency Response Preparedness
RPTs	Radiation Protection Technicians
SDP	Significance Determination Process
TSC	Technical Support Center

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Letter to Mr. Jack M. Davis from Mr. Hironori Peterson, dated July 5, 2011.

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