

October 16, 2002

Mr. William O'Connor, Jr.  
Vice President  
Nuclear Generation  
Detroit Edison Company  
6400 North Dixie Highway  
Newport, MI 48166

SUBJECT: FERMIL 2 NUCLEAR POWER STATION  
NRC INSPECTION REPORT 50-341/02-09(DRS)

Dear Mr. O'Connor:

On September 27, 2002, the NRC completed an inspection at your Fermi 2 Nuclear Power Station. The enclosed report documents the inspection findings, which were discussed on September 27, 2002, with Mr. D. Cobb 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. Specifically, this inspection focused on emergency preparedness, including your staff's determinations of performance indicators for the Emergency Preparedness Cornerstone.

On the basis of the results of this inspection, no findings of significance were identified.

In accordance with 10 CFR Part 2.790 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). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

*/RA/*

Kenneth R. Riemer, Chief  
Plant Support Branch  
Division of Reactor Safety

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

Enclosure: Inspection Report 50-341/02-09(DRS)

See Attached Distribution

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cc w/encl: N. Peterson, Director, Nuclear Licensing  
P. Marquardt, Corporate Legal Department  
Compliance Supervisor  
R. Whale, Michigan Public Service Commission  
Michigan Department of Environmental Quality  
Monroe County, Emergency Management Division  
Emergency Management Division  
MI Department of State Police  
W. Curtis, FEMA, Region V

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U.S. NUCLEAR REGULATORY COMMISSION

REGION III

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

Report No: 50-341/02-09(DRS)

Licensee: Detroit Edison Company

Facility: Enrico Fermi, Unit 2

Location: 6400 N. Dixie Highway  
Newport, MI 48166

Dates: September 23 through September 27, 2002

Inspectors: T. Ploski, Senior Emergency Preparedness Inspector  
R. Jickling, Emergency Preparedness Inspector  
G. Larizza, Resident Inspector

Approved by: Kenneth R. Riemer, Chief  
Plant Support Branch  
Division of Reactor Safety

## **SUMMARY OF FINDINGS**

IR 05000341-02-09(DRS), on 09/23-27/2002, Detroit Edison Company, Fermi 2 Nuclear Power Station. Emergency Preparedness Specialist Report.

The report covers a one week baseline inspection by two regional emergency preparedness inspectors and a resident inspector. The inspection focused on the Emergency Preparedness Cornerstone in the Reactor Safety strategic performance area, during the biennial emergency preparedness exercise. This inspection included a review of records related to the three emergency preparedness performance indicators for the 18 month period ending June 30, 2002. No findings of significance were identified.

The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 3, dated July 2000.

## REPORT DETAILS

### 1. REACTOR SAFETY

#### **Cornerstone: Emergency Preparedness**

#### 1EP1 Exercise Evaluation (71114.01)

##### a. Inspection Scope

The inspectors reviewed the September 24, 2002 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 practice drills, which were conducted in August and September 2002, to determine whether the associated accident scenarios were sufficiently different from the scenario used in the September 24, 2002 exercise.

The inspectors evaluated the licensee's exercise performance, focusing on the risk-significant activities of emergency classification, notification, and protective action decision making, as well as implementation of accident mitigation strategies in the following emergency response facilities:

- Control Room Simulator (CRS)
- Technical Support Center (TSC)
- Alternate Operations Support Center (AOSC)
- 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 TSC, AOSC, 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 to obtain the licensee's refined assessments of its exercise participants' performances. These self-assessments were then compared with the inspectors' independent observations and assessments.

##### b. Findings

No findings of significance were identified.

#### 4. **OTHER ACTIVITIES**

##### 4OA1 Performance Indicator (PI) Verification (71151)

###### a. Inspection Scope

The inspectors reviewed the licensee's records related to each of the three emergency preparedness PIs to verify that the licensee's program was implemented consistent with the industry guidelines in Nuclear Energy Institute publication No. 99-02, Regulatory Assessment Performance Indicator Guideline, and related licensee procedures. Specifically, licensee records related to the performance of the Alert and Notification System (ANS), key Emergency Response Organization (ERO) members' drill participation, and Drill and Exercise Performance (DEP) were reviewed to verify the accuracy and completeness of the data submitted to NRC for the period from January 2001 through June 2002.

###### b. Findings

No findings of significance were identified.

##### 4OA2 Identification and Resolution of Problems

The inspectors and the licensee independently identified the following concerns regarding the September 24, 2002 exercise performance:

- Although it was recognized that primary containment integrity was lost, an Unusual Event was not declared in accordance with the emergency plan.
- An Alert was declared roughly five minutes prematurely with respect to relevant criteria in the emergency plan.
- A potentially confusing footnote was incorrectly added to a message form transmitted to offsite officials regarding a portion of the Emergency Planning Zone that was being recommended for evacuation following a correct and timely General Emergency declaration.

##### 4OA6 Meetings

###### Exit Meeting

The inspectors presented the inspection results to Mr. D. Cobb and other members of licensee management and staff at the conclusion of the inspection on September 27, 2002. The licensee acknowledged the information presented. No proprietary information was identified.



### Other Meeting

On September 27, 2002, an inspector made a presentation on NRC's preliminary assessments of the exercise inspection at a public and media briefing hosted by the staff of the Federal Emergency Management Agency in Monroe, Michigan.

## KEY POINTS OF CONTACT

### Licensee

H. Aurora, Licensing Engineer  
J. Bavin, EP Specialist  
B. Bivol, EP Specialist  
D. Cobb, Plant Manager  
G. Garber, EP Specialist  
G. Henscheid, EP Specialist  
H. Higgins, Radiation Protection Manager  
R. Johnson, Licensing Supervisor  
A. Mann, Operations Engineer  
K. Morris, EP Supervisor  
S. Peterman, Operations Manager  
N. Peterson, Licensing Manager  
S. Stasek, Nuclear Assessment Director

## LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

### Opened

None

### Closed

None

### Discussed

None

## LIST OF ACRONYMS USED

ANS	Alert and Notification System
AOSC	Alternate Operations Support Center
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 Planning
EPIP	Emergency Plan Implementing Procedure
ERO	Emergency Response Organization
IR	Inspection Report
NRC	Nuclear Regulatory Commission
NUREG	Nuclear Regulatory Guide
PI	Performance Indicator
TSC	Technical Support Center

## LIST OF DOCUMENTS REVIEWED

### 1EP1 Exercise Evaluation

	Exercise Scenario Manual	September 24, 2002
	Practice Drill Scenario Summary	August 27, 2002
	Practice Drill Scenario Summary	September 10, 2002
	Draft Exercise Critique Report	September 26, 2002
EPIP 101	Classification of Emergencies	Revision 27
EPIP 102	Unusual Event	Revision 15
EPIP 103	Alert	Revision 14
EPIP 104	Site Area Emergency	Revision 14
EPIP 105	General Emergency	Revision 14
EPIP 110	Organization and Responsibilities	Revision 11
EPIP 201-03	Variances from Routine Radiological Practice and Procedures During an Emergency	Revision 8
EPIP 204-01	Damage Control and Rescue Team	Revision 10
EPIP 220	Personnel Monitoring and Radiological Emergency Teams	Revision 12
EPIP 290	Emergency Notifications	Revision 39
EPIP 301-01	Technical Support Center	Revision 15
EPIP 302-01	Operations Support Center	Revision 12
EPIP 303-01	Emergency Operations Facility	Revision 10
EPIP 530	Assembly and Accountability and Onsite Protective Actions	Revision 14
EPIP 542	Computer-Based Offsite Dose Assessment - Airborne Release	Revision 5
EPIP 545	Protective Action Recommendations	Revision 16

### 4OA1 Performance Indicator Verification

Records of Scheduled ANS Operability Tests  
Conducted Between January 1, 2001 and June 30,  
2002

Records of the Participation of Key ERO Members in  
Drills, Exercises, and an Actual Emergency Event  
Between January 1, 2001 and June 30, 2002

Records of DEP Opportunities During Pre-designated  
Drills and Exercises, and an Actual Emergency Event,  
Between January 1, 2001 and June 30, 2002