



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

October 17, 2022

Mr. Peter Dietrich
Senior VP and Chief Nuclear Officer
DTE Electric Company
Fermi 2 - 260 TAC
6400 North Dixie Highway
Newport, MI 48166

SUBJECT: FERMI POWER PLANT, UNIT 2 – EMERGENCY PREPAREDNESS BIENNIAL
EXERCISE INSPECTION REPORT 05000341/2022501

Dear Mr. Dietrich:

On September 22, 2022, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Fermi Power Plant, Unit 2 and discussed the results of this inspection with you and other members of your staff. The results of this inspection are documented in the enclosed report.

No findings or violations of more than minor significance were identified during this inspection.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

A handwritten signature in black ink, appearing to read "S. Orth".

Signed by Orth, Steven
on 10/17/22

Steven K. Orth, Chief
Security, Emergency Preparedness, and Incident
Response Branch
Division of Radiological Safety and Security

Docket No. 05000341
License No. NPF-43

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV

SUBJECT: FERMIL POWER PLANT, UNIT 2 – EMERGENCY PREPAREDNESS BIENNIAL EXERCISE INSPECTION REPORT 05000341/2022501

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**U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report**

Docket Number: 05000341

License Number: NPF-43

Report Number: 05000341/2022501

Enterprise Identifier: I-2022-501-0015

Licensee: DTE Electric Company

Facility: Fermi Power Plant, Unit 2

Location: Newport, MI

Inspection Dates: September 19, 2022 to September 22, 2022

Inspectors: G. Hansen, Sr. Emergency Preparedness Inspector
J. Kutlesa, Emergency Preparedness Inspector
V. Myers, Senior Health Physicist
T. Ospino, Resident Inspector

Approved By: Steven K. Orth, Chief
Security, Emergency Preparedness, and Incident Response Branch
Division of Radiological Safety and Security

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting an emergency preparedness biennial exercise inspection at Fermi Power Plant, Unit 2, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

List of Findings and Violations

No findings or violations of more than minor significance were identified.

Additional Tracking Items

None.

INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

REACTOR SAFETY

71114.01 - Exercise Evaluation

Inspection Review (IP Section 02.01-02.11) (1 Sample)

- (1) The inspectors evaluated the biennial emergency plan exercise on September 20, 2022. The exercise scenario simulated an event at the Fermi Power Plant, Unit 2 that initiated with the declaration and notification of an Alert in response to the loss of the plant's reactor coolant system (RCS). The scenario conditions simulated the escalation of the significance of the event, requiring the declaration of a Site Area Emergency, and then a General Emergency, as well as the development of Protective Action Recommendations that were communicated to the required state and local government

71114.08 - Exercise Evaluation - Scenario Review

Inspection Review (IP Section 02.01 - 02.04) (1 Sample)

- (1) The inspectors reviewed and evaluated the proposed scenario for the biennial emergency plan exercise on August 18, 2022.

OTHER ACTIVITIES – BASELINE

71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

EP01: Drill/Exercise Performance (DEP) Sample (IP Section 02.12) (1 Sample)

- (1) April 1, 2021 through June 30, 2022

EP02: Emergency Response Organization (ERO) Drill Participation (IP Section 02.13) (1 Sample)

- (1) April 1, 2021 through June 30, 2022

EP03: Alert And Notification System (ANS) Reliability Sample (IP Section 02.14) (1 Sample)

(1) April 1, 2021 through June 30, 2022

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

The inspectors verified no proprietary information was retained or documented in this report.

- On September 22, 2022, the inspectors presented the emergency preparedness biennial exercise inspection results to Mr. Peter Dietrich and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71114.01	Corrective Action Documents	CARD 20-30557	Sim IPCS will not Display Outside of Simulator	09/24/2020
		CARD 20-31104	Vaporstream Engage Web Page Label	10/09/2020
		CARD 20-31879	2020 Mid-Cycle Assessment Recommendation: Drill and Exercise Performance (DEP) (EP3)	11/02/2020
		CARD 20-32292	Evaluate Differences in EP-29002 Provided by Dose Assessment Program and “Engage” for Changes	11/18/2020
		CARD 20-32316	Training Notification Form Sent to Off-site Agencies	01/19/2020
		CARD 20-32546	Missed EAL Classification (DEP Opportunity) During LOR Annual Exam	12/01/2020
		CARD 21-22153	Share Lessons Learned with ERO for DEP or Other Identified Misses During Drills, Exercises, or Training Opportunities	03/09/2021
		CARD 21-22897	RADOSE V Program does not Function in Automatic Mode	03/21/2021
	CARD 21-23262	IT Issues Identified During Tabletop Drills	04/13/2021	
	Miscellaneous		Fermi 2 2022 Emergency Preparedness Exercise Scenario	07/20/2022
			Emergency Preparedness Drill and Exercise Reports	09/01/2020 - 09/01/2022
			Two-Years of Drill and Exercise Corrective Action Program Items	09/01/2020 - 09/01/2022
	Procedures		Fermi 2 Radiological Emergency Response Plan	49
		EP-101	Classification of Emergencies	44
		EP-226	Potassium Iodide	11
		EP-290	Emergency Notifications	63A
		EP-301-01	Technical Support Center	24
		EP-302-01	Operational Support Center	16
		EP-303-01	Emergency Operations Facility	19
		EP-530	Assembly and Accountability and On-site Protective Actions	27A
EP-540		Drills and Exercises	40A	
EP-542		Computer-Based Offsite Dose Assessment – Airborne Release	15	
EP-545	Protective Action Recommendations Revision	26		

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71114.08	Miscellaneous		Fermi 2 2022 Emergency Preparedness Exercise Scenario 60 Day Submittal	07/20/2022
71151	Miscellaneous		Alert and Notification System Reliability Records	04/01/2021 – 06/30/2022
			Emergency Response Organization Drill Participation Records	04/01/2021 – 06/30/2022
			Drill and Exercise Performance Records	04/01/2021 – 06/30/2022