



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

October 21, 2021

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 05000341/2021501

Dear Mr. Dietrich:

On October 7, 2021, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Fermi Power Plant, Unit 2 and discussed the results of this inspection with Mr. Eric Olson 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 cursive script that reads "Patricia J. Pelke".

Signed by Pelke, Patricia  
on 10/21/21

Patricia J. Pelke, Chief  
Operations Branch  
Division of Reactor Safety

Docket No. 05000341  
License No. NPF-43

Enclosure:  
As stated

cc w/ encl: Distribution via LISTSERV®

Letter to Peter Dietrich from Patricia J. Pelke dated October 21, 2021.

SUBJECT: FERMIL POWER PLANT, UNIT 2 – EMERGENCY PREPAREDNESS BIENNIAL EXERCISE INSPECTION REPORT 05000341/2021501

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

Docket Number: 05000341

License Number: NPF-43

Report Number: 05000341/2021501

Enterprise Identifier: I-2021-501-0020

Licensee: DTE Electric Company

Facility: Fermi Power Plant, Unit 2

Location: Newport, MI

Inspection Dates: October 04, 2021 to October 07, 2021

Inspectors: M. Garza, Emergency Preparedness Inspector  
G. Hansen, Senior Emergency Preparedness Inspector  
T. Ospino, Resident Inspector

Approved By: Patricia J. Pelke, Chief  
Operations Branch  
Division of Reactor Safety

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. Starting on March 20, 2020, in response to the National Emergency declared by the President of the United States on the public health risks of the coronavirus (COVID-19), inspectors were directed to begin telework. In addition, regional baseline inspections were evaluated to determine if all or a portion of the objectives and requirements stated in the IP could be performed remotely. If the inspections could be performed remotely, they were conducted per the applicable IP. In some cases, portions of an IP were completed remotely and on site. The inspections documented below met the objectives and requirements for completion of the IP.

## **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 October 5, 2021. The exercise scenario simulated an event at the Fermi Nuclear Plant, Unit 2 that initiated with the declaration and notification of an Alert in response to a seismic event that caused degraded performance in at least one train of a safety system required for the current operating mode. 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 agencies.

### 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 September 2, 2021.

## **INSPECTION RESULTS**

No findings were identified.

## **EXIT MEETINGS AND DEBRIEFS**

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

- On October 7, 2021, the inspectors presented the emergency preparedness biennial exercise inspection results to Mr. Eric Olson 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 20-20988	Investigate enhancement opportunities following benchmarking at Exercise Builder Nuclear Working Group meeting	01/29/2020	
		CARD 20-21884	Ineffective Drill Communication by RERP Lead	02/20/2020	
		CARD 20-22073	Inadvertent sending of Initial Notification form	02/25/2020	
		CARD 20-27076	Discrepancy noted during Simulator / RERP maintenance check (PX20)	06/20/2020	
		CARD 20-30288	Dose assessment model not operating in AUTO mode on EOF IPCS terminals	09/16/2020	
		CARD 20-31104	Vaporstream Engage web page label	10/09/2020	
		CARD 20-32292	Evaluate differences in EP-290002 provided by dose assessment program and "Engage" for change(s)	11/18/2020	
		CARD 21-22153	Share lessons learned with EROs for DEP or other identified misses during drills, exercises, or training activities	03/09/2021	
		CARD 21-23311	Recommend evaluating requirements for determining Technical Support Center habitability	04/14/2021	
		CARD 21-23468	EP drill and exercise program improvements	04/20/2021	
		CARD 21-26269	Recommended enhancements to EOF and TSC briefing guides	07/16/2021	
		CARD 21-27050	RERP drill controller standards and quorum	08/10/2021	
		CARD 21-27291	Evaluate the drill component tracking matrix for potential impacts	08/18/20R21	
	CARD 21-27531	RERP drill 08/24/2021 – Failed objective for initial notifications	08/26/2021		
	Miscellaneous			Fermi 2 2021 Emergency Preparedness Exercise Scenario (2020 Exercise Scenario Submittal)	October 14, 2020
				Emergency Preparedness Drill and Exercise Reports	10/01/2019-10/01/2021
	Procedures			Fermi 2 Radiological Emergency Response Plan	49
		EP-101		Classification of Emergencies	43A
		EP-226		Potassium Iodide	11
		EP-290		Emergency Notifications	62

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		EP-301-01	Technical Support Center	24
		EP-302-01	Operational Support Center	16
		EP-303-01	Emergency Operations Facility	18
		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	26
71114.08	Miscellaneous		Fermi 2 2020 Emergency Preparedness Exercise Scenario 60 Day Submittal	10/14/2020