



UNITED STATES
NUCLEAR REGULATORY COMMISSION

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

September 17, 2018

Mr. Keith Polson, Senior VP
and Chief Nuclear Officer
DTE Energy Company
Fermi 2 – 260 TAC
6400 North Dixie Highway
Newport, MI 48166

SUBJECT: FERMI POWER PLANT, UNIT 2—BASELINE EMERGENCY PREPAREDNESS
BIENNIAL EXERCISE INSPECTION REPORT 05000341/2018503

Dear Mr. Polson:

On August 30, 2018, the U.S. Nuclear Regulatory Commission (NRC) completed an Emergency Preparedness inspection at your Fermi Power Plant, Unit 2. The NRC inspectors discussed the results of this inspection with Mr. M. Caragher and other members of your staff. The results of this inspection are documented in the enclosed report.

The NRC inspectors did not identify any finding or violation of more-than-minor significance.

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*, Part 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Should you have any questions concerning this inspection, we will be pleased to discuss them with you.

Sincerely,

/RA/

Steven K. Orth, Chief
Plant Support Branch
Division of Reactor Safety

Docket No. 50–341
License No. NPF–43

Enclosure:
IR 05000341/2018503

cc: Distribution via LISTSERV®

Letter to Keith Polson from Steven K. Orth dated September 17, 2018

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BIENNIAL EXERCISE INSPECTION REPORT 05000341/2018503

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U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket No: 50-341

License No: NPF-43

Report No: 05000341/2018503

Enterprise Identifier: I-2018-503-0008

Licensee: DTE Energy Company

Facility: Fermi Power Plant, Unit 2

Location: Newport, MI

Dates: June 15, 2018; August 27, 2018, through August 30, 2018

Inspectors: G. Hansen, Senior Emergency Preparedness Inspector
M. Garza, Emergency Preparedness Inspector
R. Ng, Project Engineer
E. Fernandez, Reactor Inspector

Approved by: S. Orth, Chief
Plant Support Branch
Division of Reactor Safety

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission continued monitoring licensee's performance by conducting an Emergency Preparedness Inspection at Fermi Power Plant, Unit 2 in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the U.S. Nuclear Regulatory Commission'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 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 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 (1 Sample)

The inspectors evaluated the August 28, 2018, Biennial Emergency Plan Exercise. The exercise scenario simulated an event at Fermi 2 Power Plant, Unit 2 that initiated with the declaration and notification of an Unusual Event in response to an event associated with an accident that resulted in a fire in the plant. The scenario conditions simulated the escalation of the significance of the event, requiring the declaration and notification of an Alert, 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 (1 Sample)

The inspectors reviewed and evaluated the proposed scenario for the Biennial Emergency Plan Exercise on June 15, 2018.

OTHER ACTIVITIES—BASELINE

71151—Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below. (3 Samples)

- (1) EP01: Drill/Exercise Performance - 1 Sample (3rd Quarter of 2017 through 2nd Quarter of 2018);
- (2) EP02: Emergency Response Organization Drill Participation - 1 Sample (3rd Quarter of 2017 through 2nd Quarter of 2018); and
- (3) EP03: Alert and Notification System Reliability - 1 Sample (3rd Quarter of 2017 through 2nd Quarter of 2018).

INSPECTION RESULTS

No findings or violations were identified.

EXIT MEETINGS AND DEBRIEFS

The inspectors confirmed that proprietary information was controlled to protect from public disclosure. No proprietary information was documented in this report.

- On August 30, 2018, the inspectors presented the Emergency Preparedness inspection results to Mr. M. Caragher, Plant Manager, and other members of the licensee staff.

DOCUMENTS REVIEWED

71114.01—Exercise Evaluation

- Fermi 2 2018 Emergency Preparedness Exercise Scenario; 06/28/2018
- Fermi 2 Radiological Emergency Response Plan; Revision 47
- EP-101; Classification of Emergencies; Revision 42B
- EP-290; Emergency Notifications; Revision 61
- EP-301-01; Technical Support Center; Revision 22
- EP-302-01; Operational Support Center; Revision 14
- EP-303-01; Emergency Operations Facility; Revision 17
- EP-530; Assembly and Accountability and On-site Protective Actions; Revision 27A
- EP-542; Computer-Based Offsite Dose Assessment – Airborne Release; Revision 14
- EP-545; Protective Action Recommendations; Revision 26
- Two-Years of Drill and Exercise Corrective Action Program Items; August 2016 – August 2018
- Two-Years of Scenario Timelines; August 2016 – August 2018
- CARD 17-21282; RERP Drill 02/14/2017 – Unexpected (and inaccurate) Initial Notification
- CARD 17-21382; RERP Drill 02/14/2017 – Failure of Follow-up Notifications Objective
- CARD 17-21385; Negative Trend Seen in Follow-up Notifications of Performance
- CARD 17-21692; RERP Drill 02/14/2017 – Observation of OSC Team Briefings and Dispatch
- CARD 17-21858; Red Team Drill Failure
- CARD 17-24873; Adverse Trend in Emergency Classifications
- CARD 17-25278; RERP Drill 060617 – TSC Adjusting and Communication of Priorities
- CARD 17-25291; RERP Drill 060617 – OSC Coordinator Did Not Effectively Use Operations Resources
- CARD 17-29789; RERP Drill 12/5/2017 – Drill Attendance – Trend
- CARD 18-21955; Advers Trend Identified in Fire Drill Performance
- CARD 18-23883; RERP Drill 05/05/2018; Classification Discrepancy
- CARD 18-23975; RERP Drill 05/05/2018; Off-Site RET Drill Comments

71114.08—Exercise Evaluation—Scenario Review

- Fermi 2 2018 Emergency Preparedness Exercise Scenario 60 Day Submittal; 06/28/2018

71151—Performance Indicator Verification

- NRC Performance Indicator Data; Drill/Exercise Performance; 3rd Quarter of 2017 – 2nd Quarter of 2018
- NRC Performance Indicator Data; Emergency Response Organization Drill Participation; 3rd Quarter of 2017 – 2nd Quarter of 2018
- NRC Performance Indicator Data; Alert and Notification System Reliability; 3rd Quarter of 2017 – 2nd Quarter of 2018
- NEI 99-02; Regulatory Assessment Performance Indicator Guideline; Revision 7