



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, ILLINOIS 60532-4352

March 1, 2023

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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR FERMI POWER PLANT, UNIT 2  
(REPORT 05000341/2022006)

Dear Peter Dietrich:

The NRC has completed its end-of-cycle performance assessment of Fermi Power Plant, Unit 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2022, through December 31, 2022. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. The NRC concluded that overall performance at your facility preserved public health and safety. The baseline inspection program was completed at your facility as defined in Inspection Manual Chapter 2515, "Light-Water Reactor Inspection Program - Operations Phase."

The NRC determined the performance at Fermi Power Plant, Unit 2, during the most recent quarter was within the Licensee Response Column, the highest performance category of the NRC's Reactor Oversight Process (ROP) Action Matrix, because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2024. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last 12 months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

In response to the COVID-19 public health emergency (PHE), the NRC adjusted inspection plans and schedules to safeguard the health and safety of both NRC and licensee staff while still effectively implementing the ROP. While the PHE continues, overall conditions throughout the country support performance of our inspection and oversight activities returning to normal onsite presence by our resident and region-based inspectors and completion of nominal baseline inspection samples.

We continue to monitor site-specific conditions and, as discussed in our November 2, 2021, memo, “Implementation of Inspection Programs Following Re-Entry from the Public Health Emergency for the Reactor Safety Program” (ML21295A302), it may be necessary to alter how and when we perform our inspection and oversight activities as we balance the importance of protecting the health and safety of our staff with the need to conduct effective oversight that supports the NRC’s critical safety mission.

For inspections requiring extensive coordination with offsite organizations, such as evaluated emergency preparedness exercises, NRC guidance and frequently asked questions for security and emergency preparedness can be found here: <https://www.nrc.gov/about-nrc/covid-19/security-ep/>. Similarly, the NRC has developed guidance if force-on-force inspections cannot be completed as scheduled due to an emergency, such as the COVID-19 PHE. These changes help ensure the health and safety of both NRC and licensee staff while maintaining the NRC’s important safety and security mission during the COVID-19 PHE. The attached inspection plan is accurate on the date of issuance but remains subject to change based on approval of potential exemption requests or other changes needed due to changing conditions in the COVID-19 PHE. NRC staff will contact your appropriate regulatory affairs staff in order to coordinate inspection planning and scheduling.

The NRC plans to perform Inspection Procedure (IP) 71003, Post-Approval Site Inspection for License Renewal, at your facility.

Beginning on January 1, 2023, the engineering inspection frequency will transition from a triennial (3-year) to a quadrennial (4-year) cycle. The new engineering inspection program will consist of a “Comprehensive Engineering Team Inspection (CETI)<sup>1</sup>” and three “Focused Engineering Inspections (FEIs)” that will be performed in each quadrennial cycle. For the cycle beginning in 2023, the FEIs will be: “Fire Protection Team Inspection,” “Commercial Grade Dedication” and an engineering inspection that reviews age-related degradation and management<sup>2</sup>.

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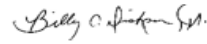
<sup>1</sup> Aspects of the Design Basis Assurance Inspection (DBAI), Evaluations of Changes, Tests, & Experiments, and Heat Sink inspections will be included in the new CETI inspection. Previously scheduled Evaluation of Changes, Tests, & Experiments and Heat Sink inspections have been cancelled and removed from attached Report 22.

<sup>2</sup> The Age-Related Degradation procedure is publicly available, and the NRC plans to implement the first inspection of this type beginning in July 2023.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter 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).

Please contact me at 630-829-9827 with any questions you have regarding this letter.

Sincerely,



Signed by Dickson, Billy  
on 02/28/23

Billy C. Dickson, Chief  
Reactor Projects Branch 2  
Division of Operating Reactor Safety

Docket Nos. 05000341 and 07200071  
License No. NPF-43

Enclosure:  
Inspection Plan

cc: Distribution via LISTSERV®

Letter to Peter Dietrich from Billy C. Dickson dated March 1, 2023.

SUBJECT: ANNUAL ASSESSMENT LETTER FOR FERMI POWER PLANT, UNIT 2  
(REPORT 05000341/2022006)

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**OFFICIAL RECORD COPY**

# Site Inspection Activity Plan

## 07200071 - Fermi (ISFSI)

01/01/2023 - 12/31/2024

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>ISFSI Cask Loading Inspection</b>						2
	6/26/2023	6/30/2023	IP 60855	001001	Operation Of An ISFSI	

# Site Inspection Activity Plan

## Fermi

01/01/2023 - 12/31/2024

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>Functional Engineering Inspection - Fire Protection</b>						3
2	2/13/2023	3/3/2023	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
<b>Security Baseline Inspection</b>						1
2	2/13/2023	2/17/2023	IP 71130.08	000740	Fitness For Duty Program	
<b>Fermi June 2023 Initial License Exam</b>						3
2	5/14/2023	5/20/2023	OV	000956	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
2	6/18/2023	6/24/2023	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
2	6/25/2023	7/1/2023	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
<b>Radiation Protection Baseline Inspection</b>						1
2	5/15/2023	5/19/2023	IP 71124.05	000729	Radiation Monitoring Instrumentation	
<b>Security Baseline Inspection</b>						1
2	6/26/2023	6/30/2023	IP 71130.07	000739	Security Training	
2	6/26/2023	6/30/2023	IP 71130.09	001656	Security Plan Changes	
2	6/26/2023	6/30/2023	IP 71151	001338	Performance Indicator Verification	
2	7/17/2023	7/21/2023	IP 71130.02	000734	Access Control	
2	7/17/2023	7/21/2023	IP 71130.05	000737	Protective Strategy Evaluation	
<b>Radiation Protection Baseline Inspection</b>						1
2	7/24/2023	7/28/2023	IP 71124.07	000731	Radiological Environmental Monitoring Program	
<b>Cyber Security Inspection</b>						4
2	8/14/2023	8/18/2023	IP 71130.10	000741	Cybersecurity	
<b>Biennial Problem Identification and Resolution Inspection</b>						4
2	9/18/2023	10/6/2023	IP 71152B	000747	Problem Identification and Resolution	
<b>Radiation Protection Baseline Inspection</b>						1
2	10/2/2023	10/6/2023	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
2	10/2/2023	10/6/2023	IP 71124.04	000728	Occupational Dose Assessment	
<b>Emergency Preparedness Baseline Inspection / Performance Indicator Verification</b>						1
2	10/9/2023	10/13/2023	IP 71114.02	000717	Alert and Notification System Testing	
2	10/9/2023	10/13/2023	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
2	10/9/2023	10/13/2023	IP 71114.05	000720	Maintenance of Emergency Preparedness	
2	10/9/2023	10/13/2023	IP 71151	001397	Performance Indicator Verification	
<b>Fermi 2023 Biennial Licensed Operator Requalification Program Inspection</b>						2
2	10/29/2023	11/4/2023	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	

# Site Inspection Activity Plan

<b>Security Baseline Inspection</b>						1
2	1/22/2024	1/26/2024	IP 71130.01	000733	Access Authorization	
2	3/4/2024	3/8/2024	IP 71130.02	000734	Access Control	
2	3/4/2024	3/8/2024	IP 71130.09	001656	Security Plan Changes	
2	3/4/2024	3/8/2024	IP 71151	001338	Performance Indicator Verification	
2	3/25/2024	3/29/2024	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
<b>Fermi February 2024 Initial License Exam</b>						3
2	1/28/2024	2/3/2024	OV	000956	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
2	2/25/2024	3/2/2024	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
2	3/3/2024	3/9/2024	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
<b>License Renewal Phase 1</b>						1
2	3/25/2024	4/5/2024	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
<b>Inservice Inspection</b>						1
2	3/25/2024	4/5/2024	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
<b>Radiation Protection Baseline Inspection</b>						1
2	4/8/2024	4/12/2024	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
2	4/8/2024	4/12/2024	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
<b>Radiation Protection Baseline Inspection</b>						1
2	6/3/2024	6/7/2024	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
<b>License Renewal Phase 2</b>						5
2	8/12/2024	8/30/2024	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
<b>Emergency Preparedness Exercise Inspection / Performance Indicator Verification</b>						4
2	8/26/2024	8/30/2024	IP 71114.01	000716	Exercise Evaluation	
2	8/26/2024	8/30/2024	IP 71151	001397	Performance Indicator Verification	
<b>Functional Engineering Inspection - Commercial Grade Dedication</b>						3
2	10/7/2024	10/25/2024	IP 71111.21N.03	001808	Commercial Grade Dedication	
<b>Security Baseline Inspection</b>						1
2	10/28/2024	11/1/2024	IP 71130.14	000743	Review of Power Reactor Target Sets	
<b>Radiation Protection Baseline Inspection</b>						1
2	11/18/2024	11/22/2024	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation	