



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION III
2443 WARRENVILLE RD. SUITE 210
LISLE, IL 60532-4352

March 1, 2017

Mr. Paul Fessler, Senior VP
and Chief Nuclear Officer
DTE Energy Company
Fermi 2 – 210 NOC
6400 North Dixie Highway
Newport, MI 48166

SUBJECT: ANNUAL ASSESSMENT LETTER FOR FERMI POWER PLANT, UNIT 2
(REPORT 05000341/2016006)

Dear Mr. Fessler:

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, 2016, through December 31, 2016. 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 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.

Although plant performance was within the Licensee Response Column, the NRC has not yet finalized the significance of a finding with an associated apparent violation (AV 05000341/2017009-01) that the NRC has preliminarily determined to be White, with low-to-moderate safety significance. By letter dated February 24, 2017, the NRC notified you of the specifics of the finding and the timeline for determining the final significance of the issue. The final safety significance determination may affect the NRC's assessment of plant performance and the enclosed inspection plan.

The enclosed inspection plan lists the inspections scheduled through December 31, 2018. 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 twelve 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. This inspection plan does not include the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

P. Fessler

-2-

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 630-829-9628 with any questions you have regarding this letter.

Sincerely,

/RA/

Kenneth Riemer, Chief
Branch 2
Division of Reactor Projects

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

Enclosure:
Inspection Plan

cc: Distribution via LISTSERV®

P. Fessler

-3-

Letter to Paul Fessler from Kenneth Riemer dated March 1, 2017

SUBJECT: ANNUAL ASSESSMENT LETTER FOR FERMI POWER PLANT, UNIT 2
(REPORT 05000341/2016006)

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|--------|------------|--|------|--|--|--|--|
| OFFICE | RIII | | RIII | | | | |
| NAME | KRiemer:tt | | | | | | |
| DATE | 2/27/2017 | | | | | | |

OFFICIAL RECORD COPY

Fermi
Inspection / Activity Plan
03/01/2017 - 12/31/2018

| Unit Number | Planned Dates | | Inspection Activity | Title | No. of Staff on Site |
|-------------|---------------|------------|---|---|----------------------|
| | Start | End | | | |
| | | | OL PREP - INIT EXAM/MARCH 2017 | | 3 |
| 2 | 02/27/2017 | 03/03/2017 | W90356 | OL - INITIAL EXAM - 2017 FEB-MAR - FERMI 2 | |
| | | | ISI - INSERVICE INSPECTION | | 1 |
| 2 | 03/20/2017 | 04/19/2017 | IP 7111108G | Inservice Inspection Activities - BWR | |
| | | | OL EXAM - INIT EXAM/MARCH 2017 | | 3 |
| 2 | 03/27/2017 | 03/31/2017 | W90356 | OL - INITIAL EXAM - 2017 FEB-MAR - FERMI 2 | |
| | | | BI RP - RADIATION PROTECTION BASELINE INSPECTION | | 2 |
| 2 | 04/10/2017 | 04/14/2017 | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |
| 2 | 04/10/2017 | 04/14/2017 | IP 71124.02 | Occupational ALARA Planning and Controls | |
| | | | BI ENG - DBA PROGRAMS | | 3 |
| 2 | 05/08/2017 | 05/26/2017 | IP 7111121N | Component Design Bases Inspection (Programs) | |
| | | | BI RP - RADIATION PROTECTION BASELINE INSPECTION | | 1 |
| 2 | 06/05/2017 | 06/09/2017 | IP 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 2 | 06/05/2017 | 06/09/2017 | IP 71124.04 | Occupational Dose Assessment | |
| | | | BI PI&R - BIENNIAL PI&R INSPECTION | | 4 |
| 2 | 06/05/2017 | 06/23/2017 | IP 71152B | Problem Identification and Resolution | |
| | | | BI FIRE - TRIENNIAL FIRE PROTECTION AND BAG TRIP | | 3 |
| 2 | 08/14/2017 | 09/15/2017 | IP 7111105T | Fire Protection [Triennial] | |
| | | | BI RP - RADIATION PROTECTION BASELINE INSPECTION | | 1 |
| 2 | 09/25/2017 | 09/29/2017 | IP 71124.08 | Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation | |
| 2 | 09/25/2017 | 09/29/2017 | IP 71151 | Performance Indicator Verification | |
| | | | BI EP - EP BASELINE INSPECTION/ PI VERIFICATION | | 1 |
| 2 | 10/23/2017 | 10/27/2017 | IP 7111402 | Alert and Notification System Testing | |
| 2 | 10/23/2017 | 10/27/2017 | IP 7111403 | Emergency Preparedness Organization Staffing and Augmentation System | |
| 2 | 10/23/2017 | 10/27/2017 | IP 7111405 | Correction of Emergency Preparedness Weaknesses and Deficiencies | |
| 2 | 10/23/2017 | 10/27/2017 | IP 71151 | Performance Indicator Verification | |
| | | | OL-RQ - BIENNIAL REQUAL PROGRAM INSPECTION | | 2 |
| 2 | 11/27/2017 | 12/01/2017 | IP 7111111B | Licensed Operator Requalification Program | |
| | | | OL PREP - INITIAL PREP JAN 2018 | | 3 |
| 2 | 01/29/2018 | 02/02/2018 | W90373 | OL - INITIAL EXAM - 2018 JAN-FEB - FERMI 2 | |
| | | | BI RP - RADIATION PROTECTION BASELINE INSPECTION | | 1 |
| 2 | 02/05/2018 | 02/09/2018 | IP 71124.05 | Radiation Monitoring Instrumentation | |

This report does not include INPO and OUTAGE activities.
This report shows only on-site and announced inspection procedures.

Fermi
Inspection / Activity Plan
03/01/2017 - 12/31/2018

| Unit Number | Planned Dates | | Inspection Activity | Title | No. of Staff on Site |
|-------------|---------------|------------|---|--|----------------------|
| | Start | End | | | |
| | | | OL EXAM - INITIAL EXAM FEB 2018 | | 3 |
| 2 | 02/25/2018 | 03/02/2018 | W90373 | OL - INITIAL EXAM - 2018 JAN-FEB - FERMI 2 | |
| | | | BI RP - RADIATION PROTECTION BASELINE INSPECTION | | 1 |
| 2 | 04/02/2018 | 04/06/2018 | IP 71124.02 | Occupational ALARA Planning and Controls | |
| | | | BI RP - RADIATION PROTECTION BASELINE INSPECTION | | 1 |
| 2 | 07/23/2018 | 07/27/2018 | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |
| 2 | 07/23/2018 | 07/27/2018 | IP 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 2 | 07/23/2018 | 07/27/2018 | IP 71124.04 | Occupational Dose Assessment | |
| | | | ISI - INSERVICE INSPECTION | | 1 |
| 2 | 09/22/2018 | 10/21/2018 | IP 7111108G | Inservice Inspection Activities - BWR | |
| | | | BI RP - RADIATION PROTECTION BASELINE INSPECTION | | 2 |
| 2 | 10/01/2018 | 10/05/2018 | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |
| 2 | 10/01/2018 | 10/05/2018 | IP 71124.02 | Occupational ALARA Planning and Controls | |
| 2 | 10/01/2018 | 10/05/2018 | IP 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 2 | 10/01/2018 | 10/05/2018 | IP 71124.04 | Occupational Dose Assessment | |
| | | | EP - EP EXERCISE/PI VERIFICATION | | 2 |
| 2 | 10/29/2018 | 11/02/2018 | IP 7111401 | Exercise Evaluation | |
| 2 | 10/29/2018 | 11/02/2018 | IP 7111406 | Drill Evaluation | |
| 2 | 10/29/2018 | 11/02/2018 | IP 7111408 | Exercise Evaluation – Scenario Review | |
| 2 | 10/29/2018 | 11/02/2018 | IP 71151 | Performance Indicator Verification | |
| | | | BI 50.59 - TRIENNIAL 50.59 INSPECTION | | 3 |
| 2 | 12/10/2018 | 12/14/2018 | IP 7111117T | Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications | |

This report does not include INPO and OUTAGE activities.
 This report shows only on-site and announced inspection procedures.