



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

March 4, 2019

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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR FERMI POWER PLANT, UNIT 2
(REPORT 05000341/2018006)

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, 2018 through December 31, 2018. 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.

The enclosed inspection plan lists the inspections scheduled through December 31, 2020. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. 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. You should be aware that the agency is pursuing potential changes to the ROP, including changes to engineering inspections (SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections"). Should these changes to the ROP be implemented, the engineering and other region-based inspections are subject to change in scope, as well as schedule, beginning in January 2020. 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.

In addition to baseline inspections, the NRC plans to perform Temporary Instruction 2515/193, "Inspection of the Implementation of EA-13-109: Order Modifying Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation Under Severe Accident Conditions."

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 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Please contact me at 630-829-9620 with any questions you have regarding this letter.

Sincerely,

/RA/

Eric R. Duncan, Chief
Branch 4
Division of Reactor Projects

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

Enclosure:
Inspection Plan

cc: Distribution via LISTSERV®

Letter to Paul Fessler from Eric Duncan dated March 4, 2019

SUBJECT: ANNUAL ASSESSMENT LETTER FOR FERMI POWER PLANT, UNIT 2
(REPORT 05000341/2018006)

DISTRIBUTION:

Michael McCoppin

RidsNrrDorlLpl3

RidsNrrPMFermi2 Resource

RidsNrrDirslrib Resource

Darrell Roberts

John Giessner

Jamnes Cameron

Allan Barker

DRPIII

DRSIII

ROPAssessment.Resource@nrc.gov

ADAMS Accession Number: ML19063B541

| | | | | | | | |
|--------|------------|--|--|--|--|--|--|
| OFFICE | RIII | | | | | | |
| NAME | EDuncan:lg | | | | | | |
| DATE | 3/4/2019 | | | | | | |

OFFICIAL RECORD COPY

IP 22 Inspection Activity Plan Report

Fermi

03/04/2019 - 12/31/2020

| Unit | Start | End | Activity | CAC | Title | Staff Count |
|--|------------|------------|--------------|--------|--|-------------|
| Design Bases Assurance Inspection (Team) | | | | | | 6 |
| 2 | 05/06/2019 | 05/24/2019 | IP 71111.21M | 000713 | Design Bases Assurance Inspection (Teams) | |
| 2019 Fermi Exam | | | | | | 4 |
| 2 | 05/12/2019 | 05/18/2019 | OV | 000956 | VALIDATION OF INITIAL LICENSE EXAMINATION (OV) | |
| 2 | 06/16/2019 | 06/28/2019 | EXAD | 000500 | LICENSE EXAM ADMINISTRATION (EXAD) | |
| Force-on-Force Planning and Exercises | | | | | | 6 |
| 2 | 05/13/2019 | 05/17/2019 | IP 71130.03 | 000735 | Contingency Response - Force-On-Force Testing | |
| 2 | 06/03/2019 | 06/07/2019 | IP 71130.03 | 000735 | Contingency Response - Force-On-Force Testing | |
| Radiation Protection Baseline Inspection | | | | | | 2 |
| 2 | 05/20/2019 | 05/24/2019 | IP 71124.06 | 000730 | Radioactive Gaseous and Liquid Effluent Treatment | |
| 2 | 05/20/2019 | 05/24/2019 | IP 71124.07 | 000731 | Radiological Environmental Monitoring Program | |
| ISFSI Cask Loading Inspection 2Q2019 | | | | | | 2 |
| 2 | 06/10/2019 | 06/14/2019 | IP 60855.1 | 000590 | Operation of an Independent Spent Fuel Storage Installation at Operating Plants | |
| Radiation Protection Baseline Inspection | | | | | | 1 |
| 2 | 07/15/2019 | 07/19/2019 | IP 71124.08 | 000732 | Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation | |
| 2 | 07/15/2019 | 07/19/2019 | IP 71151 | 000746 | Performance Indicator Verification | |
| Security Baseline Inspection | | | | | | 1 |
| 2 | 07/15/2019 | 07/19/2019 | IP 71130.07 | 000739 | Security Training | |
| 2 | 07/15/2019 | 07/19/2019 | IP 71151 | 001338 | Performance Indicator Verification | |
| 2 | 08/26/2019 | 08/28/2019 | IP 71130.14 | 000743 | Review of Power Reactor Target Sets | |
| Biennial Problem Identification and Resolution Inspection | | | | | | 4 |
| 2 | 07/29/2019 | 08/16/2019 | IP 71152B | 000747 | Problem Identification and Resolution | |
| Reliable Hardened Containment Vents TI-193 | | | | | | 2 |
| 2 | 08/19/2019 | 08/23/2019 | TI 2515/193 | 000511 | Inspection of the Implementation of EA-13-109: Order Modifying Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation under Severe Accident Conditions | |

IP 22 Inspection Activity Plan Report

Fermi

03/04/2019 - 12/31/2020

| Unit | Start | End | Activity | CAC | Title | Staff Count |
|--|------------|------------|--------------|--------|--|-------------|
| Cyber Security Inspection | | | | | | 5 |
| 2 | 09/23/2019 | 10/11/2019 | IP 71130.10P | 000741 | Cyber Security | |
| Emergency Preparedness Baseline Inspection | | | | | | 1 |
| 2 | 09/30/2019 | 10/04/2019 | IP 71114.02 | 000717 | Alert and Notification System Testing | |
| 2 | 09/30/2019 | 10/04/2019 | IP 71114.03 | 000718 | Emergency Response Organization Staffing and Augmentation System | |
| 2 | 09/30/2019 | 10/04/2019 | IP 71114.05 | 000720 | Maintenance of Emergency Preparedness | |
| 2 | 09/30/2019 | 10/04/2019 | IP 71151 | 001397 | Performance Indicator Verification | |
| Triennial Heat Sink Inspection | | | | | | 2 |
| 2 | 10/28/2019 | 11/01/2019 | IP 71111.07T | 000700 | Heat Sink Performance -Triennial | |
| Radiation Protection Baseline Inspection | | | | | | 1 |
| 2 | 11/04/2019 | 11/08/2019 | IP 71124.01 | 000725 | Radiological Hazard Assessment and Exposure Controls | |
| Biennial Requalification Program Inspection | | | | | | 2 |
| 2 | 11/18/2019 | 11/22/2019 | IP 71111.11B | 000704 | Licensed Operator Requalification Program and Licensed Operator Performance (Biennial) | |
| Security Baseline Inspection | | | | | | 1 |
| 2 | 02/24/2020 | 02/28/2020 | IP 71130.08 | 000740 | Fitness For Duty Program | |
| 2 | 02/24/2020 | 02/28/2020 | IP 71151 | 001338 | Performance Indicator Verification | |
| Inservice Inspection Fermi Unit 2 | | | | | | 1 |
| 2 | 03/23/2020 | 04/03/2020 | IP 71111.08G | 000701 | Inservice Inspection Activities (BWR) | |
| Radiation Protection Baseline Inspection | | | | | | 2 |
| 2 | 03/30/2020 | 04/03/2020 | IP 71124.01 | 000725 | Radiological Hazard Assessment and Exposure Controls | |
| 2 | 03/30/2020 | 04/03/2020 | IP 71124.02 | 000726 | Occupational ALARA Planning and Controls | |
| 2 | 03/30/2020 | 04/03/2020 | IP 71124.03 | 000727 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 2 | 03/30/2020 | 04/03/2020 | IP 71124.04 | 000728 | Occupational Dose Assessment | |
| Radiation Protection Baseline Inspection | | | | | | 1 |
| 2 | 06/15/2020 | 06/19/2020 | IP 71124.01 | 000725 | Radiological Hazard Assessment and Exposure Controls | |
| 2 | 06/15/2020 | 06/19/2020 | IP 71124.03 | 000727 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 2 | 06/15/2020 | 06/19/2020 | IP 71124.04 | 000728 | Occupational Dose Assessment | |

IP 22 Inspection Activity Plan Report

Fermi

03/04/2019 - 12/31/2020

| Unit | Start | End | Activity | CAC | Title | Staff Count |
|--|------------|------------|--------------|--------|---|-------------|
| Emergency Preparedness Exercise Inspection / Performance Indicator Verification | | | | | | 4 |
| 2 | 06/22/2020 | 06/26/2020 | IP 71114.01 | 000716 | Exercise Evaluation | |
| 2 | 06/22/2020 | 06/26/2020 | IP 71151 | 001397 | Performance Indicator Verification | |
| Triennial Fire Protection Inspection | | | | | | 3 |
| 2 | 06/29/2020 | 07/17/2020 | IP 71111.05T | 000696 | Fire Protection (Triennial) | |
| Security Baseline Inspection | | | | | | 1 |
| 2 | 07/06/2020 | 07/10/2020 | IP 71130.02 | 000734 | Access Control | |
| Security Baseline Inspection | | | | | | 1 |
| 2 | 08/17/2020 | 08/21/2020 | IP 71130.05 | 000737 | Protective Strategy Evaluation | |
| Design Bases Assurance Inspection (Programs) | | | | | | 3 |
| 2 | 10/05/2020 | 10/09/2020 | IP 71111.21N | 000714 | Design Bases Assurance Inspection (Programs) | |
| 2 | 10/12/2020 | 10/16/2020 | IP 71111.21N | 000714 | Design Bases Assurance Inspection (Programs) | |
| 2 | 10/19/2020 | 10/23/2020 | IP 71111.21N | 000714 | Design Bases Assurance Inspection (Programs) | |
| Security Baseline Inspection | | | | | | 1 |
| 2 | 10/05/2020 | 10/09/2020 | IP 71130.04 | 000736 | Equipment Performance, Testing, and Maintenance | |
| Radiation Protection Baseline Inspection | | | | | | 1 |
| 2 | 10/12/2020 | 10/16/2020 | IP 71124.08 | 000732 | Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation | |
| Radiation Protection Baseline Inspection | | | | | | 1 |
| 2 | 11/16/2020 | 11/20/2020 | IP 71124.02 | 000726 | Occupational ALARA Planning and Controls | |
| Fermi December 2020 Initial Exam | | | | | | 3 |
| 2 | 11/16/2020 | 11/20/2020 | OV | 000956 | VALIDATION OF INITIAL LICENSE EXAMINATION (OV) | |
| 2 | 12/07/2020 | 12/24/2020 | EXAD | 000500 | LICENSE EXAM ADMINISTRATION (EXAD) | |