



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

March 4, 2013

Mr. Joseph Plona
Senior Vice President and
Chief Nuclear Officer
Detroit Edison Company
Fermi 2 - 210 NOC
6400 North Dixie Highway
Newport, MI 48166

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR FERMI POWER PLANT, UNIT 2
(REPORT 05000341/2012001)**

Dear Mr. Plona:

On February 13, 2013, the NRC completed its end-of-cycle performance review of the Fermi Power Plant, Unit 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2012, through December 31, 2012. 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 determined the performance at Fermi Power Plant, Unit 2, during the most recent quarter was within the Regulatory Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because the NRC identified that the Unplanned Scrams per 7000 Critical Hours performance indicator (PI) has crossed the Green-to-White threshold. The change was due to the reactor scram that occurred in the 4th quarter of 2012 and two previous scrams.

Previously the NRC determined the performance at Fermi Power Plant, Unit 2, during the first three quarters of 2012 was within the Regulatory Response Column of the NRC's ROP Action Matrix because of one or more greater-than-green Security Cornerstone inputs as described in Report 05000341/2010201 sent on January 6, 2011. Fermi Power Plant, Unit 2, transitioned to the Licensee Response Column on August 24, 2012, with the NRC's closure of the one or more greater-than-green Security Cornerstone inputs that were being held open pending the completion of a supplemental inspection and effective corrective actions by the licensee. The NRC documented the results of that supplemental inspection in NRC Inspection Report 05000341/2012406 sent on October 4, 2012.

In addition to ROP baseline inspections, the NRC plans to conduct a supplemental inspection in accordance with Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area," to review your actions to address the White performance indicator. Your staff has not yet notified the NRC of your readiness for it to conduct a supplemental inspection to review the actions taken to address the performance issues.

The enclosed inspection plan lists the inspections scheduled through December 31, 2014. 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 at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. The inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence. The NRC also plans on performing special and infrequently performed inspections including: Inspection Procedure (IP) 71111.21, "Component Design Basis Inspection," IP 71111.07T, "Heat Sink Performance," IP 71111.11B, "Licensed Operator Requalification Program," and Temporary Instruction (TI) 2515/182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping."

In accordance with 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 Mr. Jamnes Cameron, Chief, Division of Reactor Projects, Branch 6, at 630-829-9833 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Gary L. Shear, Acting Director
Division of Reactor Projects

Docket No. 50-341; 072-071
License No. NPF-43

Enclosure: Fermi 2 Inspection/Activity Plan

cc w/encl: Distribution via ListServ

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|--------|----------------|----------|----------|--|--|
| OFFICE | RIII | RIII | RIII | | |
| NAME | JRutkowski:ntp | JCameron | GShear | | |
| DATE | 02/21/13 | 02/24/13 | 02/25/13 | | |

OFFICIAL RECORD COPY

Letter to J. Plona from G. Shear dated March 4, 2013.

SUBJECT: ANNUAL ASSESSMENT LETTER FOR FERMI POWER PLANT, UNIT 2
(REPORT 05000341/2012001)

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Fermi
Inspection / Activity Plan
03/01/2013 - 12/31/2014

| Unit Number | Planned Dates | | Inspection Activity | Title | No. of Staff on Site |
|-------------|---------------|------------|---|--|----------------------|
| | Start | End | | | |
| | | | BI CDBI - COMPONENT DESIGN BASIS INSPECTION | | 6 |
| 2 | 07/08/2013 | 08/09/2013 | IP 7111121 | Component Design Bases Inspection | |
| | | | INSP - BUILDING STRUCTURE MODS TO SUPPORT ISFSI | | 2 |
| 2 | 02/11/2013 | 04/19/2013 | IP 7111118 | Plant Modifications | |
| | | | BI RP - RADIATION PROTECTION BASELINE INSPECTION | | 1 |
| 2 | 03/18/2013 | 03/22/2013 | IP 71124.05 | Radiation Monitoring Instrumentation | |
| | | | STRIKE - STRIKE CONTINGENCY - OP/MAINT/RP | | 2 |
| 2 | 05/06/2013 | 06/06/2013 | IP 92709 | Licensee Strike Contingency Plans | |
| | | | BI EPR - EP ROUTINE INSPECTION / PI VERIFICATION | | 2 |
| 2 | 06/24/2013 | 06/28/2013 | IP 7111402 | Alert and Notification System Testing | |
| 2 | 06/24/2013 | 06/28/2013 | IP 7111403 | Emergency Preparedness Organization Staffing and Augmentation System | |
| 2 | 06/24/2013 | 06/28/2013 | IP 7111405 | Correction of Emergency Preparedness Weaknesses and Deficiencies | |
| 2 | 06/24/2013 | 06/28/2013 | IP 71151 | Performance Indicator Verification | |
| | | | BI RP - RADIATION PROTECTION BASELINE INSPECTION | | 1 |
| 2 | 06/10/2013 | 06/14/2013 | IP 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 2 | 06/10/2013 | 06/14/2013 | IP 71124.04 | Occupational Dose Assessment | |
| | | | BI RP - RADIATION PROTECTION BASELINE INSPECTION | | 1 |
| 2 | 07/08/2013 | 07/12/2013 | IP 71124.08 | Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation | |
| 2 | 07/08/2013 | 07/12/2013 | IP 71151-BI01 | Reactor Coolant System Activity | |
| 2 | 07/08/2013 | 07/12/2013 | IP 71151-OR01 | Occupational Exposure Control Effectiveness | |
| 2 | 07/08/2013 | 07/12/2013 | IP 71151-PR01 | RETS/ODCM Radiological Effluent | |
| | | | ISFSI - ISFSI INSPECTION | | 1 |
| 2 | 07/01/2013 | 07/31/2013 | IP 60856.1 | Review of 10 CFR 72.212(b) Evaluations at Operating Plants | |
| | | | BI PI&R - BIENNIAL PI&R TEAM INSPECTION | | 5 |
| 2 | 11/04/2013 | 11/22/2013 | IP 71152B | Problem Identification and Resolution | |
| | | | OL PREP - FERMI INIT PREP 08/2013 | | 3 |
| 2 | 08/12/2013 | 08/16/2013 | W90287 | OL - INITIAL EXAM - 2013 AUG-SEPT - FERMI 2 | |
| | | | OL EXAM - FERMI INIT EXAM - 09/2013 | | 3 |
| 2 | 09/09/2013 | 09/13/2013 | W90287 | OL - INITIAL EXAM - 2013 AUG-SEPT - FERMI 2 | |
| | | | TI 182 - TI 182 BURIED PIPING PHASE 2 | | 2 |
| 2 | 09/16/2013 | 09/20/2013 | IP 2515/182 | Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping | |
| | | | BI OLRQ - BIENNIAL REQUAL PROGRAM INSPECTION | | 2 |
| 2 | 10/21/2013 | 10/25/2013 | IP 7111111B | Licensed Operator Requalification Program | |

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

Fermi
Inspection / Activity Plan
03/01/2013 - 12/31/2014

| Unit Number | Planned Dates | | Inspection Activity | Title | No. of Staff on Site |
|-------------|---------------|------------|--|--|----------------------|
| | Start | End | | | |
| | | | BI HS - TRIENNIAL HEAT SINK INSPECTION | | 2 |
| 2 | 12/02/2013 | 12/06/2013 | IP 7111107T | Heat Sink Performance | |
| | | | ISFSI - ISFSI INSPECTION | | 1 |
| 2 | 12/01/2013 | 12/31/2013 | IP 60853 | On-Site Fabrication Of Components And Construction On An ISFSI | |
| | | | ISFSI - ISFSI INSPECTION | | 1 |
| 2 | 01/01/2014 | 01/31/2014 | IP 60853 | On-Site Fabrication Of Components And Construction On An ISFSI | |
| | | | BI EPX - EP EXERCISE INSPECTION / PI VERIFICATION | | 2 |
| 2 | 04/28/2014 | 05/02/2014 | IP 71151 | Performance Indicator Verification | |
| | | | BI ISI - INSERVICE INSPECTION | | 1 |
| 2 | 02/10/2014 | 03/17/2014 | IP 7111108G | Inservice Inspection Activities - BWR | |
| | | | ISFSI - ISFSI INSPECTION | | 1 |
| 2 | 03/01/2014 | 04/30/2014 | IP 60854.1 | Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants | |
| | | | ISFSI - ISFSI INSPECTION - SCHEDULE DEPENDENT | | 1 |
| 2 | 05/01/2014 | 08/31/2014 | IP 60855.1 | Operation of an Independent Spent Fuel Storage Installation at Operating Plants | |
| | | | BI RP - RADIATION PROTECTION BASELINE INSPECTION | | 1 |
| 2 | 05/12/2014 | 05/16/2014 | IP 71124.05 | Radiation Monitoring Instrumentation | |
| | | | BI RP - RADIATION PROTECTION BASELINE INSPECTION | | 1 |
| 2 | 07/14/2014 | 07/18/2014 | IP 71124.06 | Radioactive Gaseous and Liquid Effluent Treatment | |
| 2 | 07/14/2014 | 07/18/2014 | IP 71124.07 | Radiological Environmental Monitoring Program | |
| | | | BI FP - FIRE PROTECTION INSPECTION& BAG TRIP | | 3 |
| 2 | 08/11/2014 | 09/12/2014 | IP 7111105T | Fire Protection [Triennial] | |
| | | | BI RP - RADIATION PROTECTION BASELINE INSPECTION | | 1 |
| 2 | 09/08/2014 | 09/12/2014 | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |
| 2 | 09/08/2014 | 09/12/2014 | IP 71151-BI01 | Reactor Coolant System Activity | |
| 2 | 09/08/2014 | 09/12/2014 | IP 71151-OR01 | Occupational Exposure Control Effectiveness | |
| 2 | 09/08/2014 | 09/12/2014 | IP 71151-PR01 | RETS/ODCM Radiological Effluent | |

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