



**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 Qualification 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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DATE	02/21/13		02/24/13		02/25/13		

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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				
			<b>BI CDBI - COMPONENT DESIGN BASIS INSPECTION</b>		<b>6</b>
2	07/08/2013	08/09/2013	IP 7111121	Component Design Bases Inspection	
			<b>INSP - BUILDING STRUCTURE MODS TO SUPPORT ISFSI</b>		<b>2</b>
2	02/11/2013	04/19/2013	IP 7111118	Plant Modifications	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
2	03/18/2013	03/22/2013	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>STRIKE - STRIKE CONTINGENCY - OP/MAINT/RP</b>		<b>2</b>
2	05/06/2013	06/06/2013	IP 92709	Licensee Strike Contingency Plans	
			<b>BI EPR - EP ROUTINE INSPECTION / PI VERIFICATION</b>		<b>2</b>
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	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
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	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
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	
			<b>ISFSI - ISFSI INSPECTION</b>		<b>1</b>
2	07/01/2013	07/31/2013	IP 60856.1	Review of 10 CFR 72.212(b) Evaluations at Operating Plants	
			<b>BI PI&amp;R - BIENNIAL PI&amp;R TEAM INSPECTION</b>		<b>5</b>
2	11/04/2013	11/22/2013	IP 71152B	Problem Identification and Resolution	
			<b>OL PREP - FERMI INIT PREP 08/2013</b>		<b>3</b>
2	08/12/2013	08/16/2013	W90287	OL - INITIAL EXAM - 2013 AUG-SEPT - FERMI 2	
			<b>OL EXAM - FERMI INIT EXAM - 09/2013</b>		<b>3</b>
2	09/09/2013	09/13/2013	W90287	OL - INITIAL EXAM - 2013 AUG-SEPT - FERMI 2	
			<b>TI 182 - TI 182 BURIED PIPING PHASE 2</b>		<b>2</b>
2	09/16/2013	09/20/2013	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
			<b>BI OLRQ - BIENNIAL REQUAL PROGRAM INSPECTION</b>		<b>2</b>
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				
			<b>BI HS - TRIENNIAL HEAT SINK INSPECTION</b>		<b>2</b>
2	12/02/2013	12/06/2013	IP 7111107T	Heat Sink Performance	
			<b>ISFSI - ISFSI INSPECTION</b>		<b>1</b>
2	12/01/2013	12/31/2013	IP 60853	On-Site Fabrication Of Components And Construction On An ISFSI	
			<b>ISFSI - ISFSI INSPECTION</b>		<b>1</b>
2	01/01/2014	01/31/2014	IP 60853	On-Site Fabrication Of Components And Construction On An ISFSI	
			<b>BI EPX - EP EXERCISE INSPECTION / PI VERIFICATION</b>		<b>2</b>
2	04/28/2014	05/02/2014	IP 71151	Performance Indicator Verification	
			<b>BI ISI - INSERVICE INSPECTION</b>		<b>1</b>
2	02/10/2014	03/17/2014	IP 7111108G	Inservice Inspection Activities - BWR	
			<b>ISFSI - ISFSI INSPECTION</b>		<b>1</b>
2	03/01/2014	04/30/2014	IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants	
			<b>ISFSI - ISFSI INSPECTION - SCHEDULE DEPENDENT</b>		<b>1</b>
2	05/01/2014	08/31/2014	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
2	05/12/2014	05/16/2014	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
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	
			<b>BI FP - FIRE PROTECTION INSPECTION&amp; BAG TRIP</b>		<b>3</b>
2	08/11/2014	09/12/2014	IP 7111105T	Fire Protection [Triennial]	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
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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