



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

September 4, 2012

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

**SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR FERMI POWER PLANT, UNIT 2**

Dear Mr. Plona:

On August 7, 2012, the NRC completed its mid-cycle performance review of the Fermi Power Plant, Unit 2. The NRC reviewed the most recent quarterly performance indicators in addition to inspection results and enforcement actions from July 1, 2011, through June 30, 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. This assessment reflects the integration of the Security Cornerstone into the Inspection Manual Chapter 0305, "Operating Reactor Assessment Program."

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 of one or more greater-than-green Security Cornerstone inputs as described in Inspection Report 05000341/2010201 on October 15, 2010. This change in the Action Matrix from the end-of-cycle assessment is due to security integration into the assessment program.

On April 10, 2012, your staff notified the NRC of your readiness for it to conduct a supplemental inspection to review the actions taken to address the performance issues. During the week of August 20, 2012, the NRC conducted a supplemental inspection in accordance with Inspection Procedure (IP) 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area." The results of that inspection are pending review and will be sent via separate correspondence once the review is complete.

The enclosed inspection plan lists the inspections scheduled through December 31, 2013. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last 9 months of the inspection plan are tentative and may be revised at the end-of-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: IP 60854.1, "Preoperational Testing of Independent Spent Fuel Storage Installation (ISFSI) at Operating Plants," IP 60855.1, "Operation of an ISFSI at Operating Plants," IP 60856.1, "Review of 10 CFR 72.212 Evaluations," Temporary Instruction (TI) 2515/187, "Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns," and TI 2515/188, "Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns."

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 me at 630-829-9700 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

*/RA/*

Gary L. Shear, Director (Acting)  
Division of Reactor Safety

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

Enclosure: Fermi 2 Inspection/Activity Plan

cc w/encl: Distribution via ListServ

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Letter to J. Plona from G. Shear dated September 4, 2012.

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR FERMI POWER PLANT, UNIT 2

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**Fermi**  
**Inspection / Activity Plan**  
**09/01/2012 - 12/31/2013**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>TI-187 - TI-187 FLOODING WALKDOWN</b>		<b>2</b>
07/01/2012	12/30/2012	IP 2515/187	Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns	
		<b>TI-188 - TI-188 SEISMIC WALKDOWN</b>		<b>2</b>
07/02/2012	12/31/2012	IP 2515/187	Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns	
		<b>INSP - OPESS FY2007-03 CRANE &amp; HEAVY LIFT INSP</b>		<b>1</b>
08/27/2012	09/14/2012	IP 7111120	Refueling and Other Outage Activities	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>2</b>
09/10/2012	09/14/2012	IP 71124.02	Occupational ALARA Planning and Controls	
09/10/2012	09/14/2012	IP 71151-BI01	Reactor Coolant System Activity	
09/10/2012	09/14/2012	IP 71151-OR01	Occupational Exposure Control Effectiveness	
09/10/2012	09/14/2012	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>BI OLRQ - REQUALIFICATION PROGRAM INSPECTION</b>		<b>1</b>
10/01/2012	10/05/2012	IP 7111111A	Licensed Operator Requalification Program - Annual Review	
		<b>BI OLRQ - REQUALIFICATION PROGRAM INSPECTION</b>		<b>1</b>
11/12/2012	11/16/2012	IP 7111111A	Licensed Operator Requalification Program - Annual Review	
		<b>ISFSI - ISFSI INSPECTION - SCHEDULE DEPENDENT</b>		<b>2</b>
02/01/2013	04/30/2013	IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
01/28/2013	02/01/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
		<b>INSP - BUILDING STRUCTURE MODS TO SUPPORT ISFSI</b>		<b>2</b>
02/11/2013	04/19/2013	IP 7111118	Plant Modifications	
		<b>BI HS - TRIENNIAL HEAT SINK INSPECTION</b>		<b>2</b>
03/18/2013	03/22/2013	IP 7111107T	Heat Sink Performance	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
03/25/2013	03/29/2013	IP 71124.05	Radiation Monitoring Instrumentation	
		<b>BI PI&amp;R - BIENNIAL PI&amp;R TEAM INSPECTION</b>		<b>5</b>
04/08/2013	04/26/2013	IP 71152B	Problem Identification and Resolution	
		<b>ISFSI - ISFSI INSPECTION - SCHEDULE DEPENDENT</b>		<b>1</b>
05/01/2013	08/31/2013	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
		<b>STRIKE - STRIKE CONTINGENCY - OP/MAINT/RP</b>		<b>2</b>
05/06/2013	06/06/2013	IP 92709	Licensee Strike Contingency Plans	
		<b>BI CDBI - COMPONENT DESIGN BASIS INSPECTION</b>		<b>5</b>
07/08/2013	08/09/2013	IP 7111121	Component Design Bases Inspection	

**Fermi**  
**Inspection / Activity Plan**  
**09/01/2012 - 12/31/2013**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>TI 182 - TI 182 BURIED PIPING PHASE 2</b>		<b>2</b>
05/20/2013	05/24/2013	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
		<b>BI EPR - EP ROUTINE INSPECTION / PI VERIFICATION</b>		<b>2</b>
06/24/2013	06/28/2013	IP 7111402	Alert and Notification System Testing	
06/24/2013	06/28/2013	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
06/24/2013	06/28/2013	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
06/24/2013	06/28/2013	IP 711151	Performance Indicator Verification	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
06/10/2013	06/14/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
06/10/2013	06/14/2013	IP 71124.04	Occupational Dose Assessment	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
07/08/2013	07/12/2013	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
07/08/2013	07/12/2013	IP 71151-BI01	Reactor Coolant System Activity	
07/08/2013	07/12/2013	IP 71151-OR01	Occupational Exposure Control Effectiveness	
07/08/2013	07/12/2013	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>OL PREP - FERMI INIT PREP 08/2013</b>		<b>3</b>
08/12/2013	08/16/2013	W90287	OL - INITIAL EXAM - 2013 AUG-SEPT - FERMI 2	
		<b>ISFSI - ISFSI INSPECTION</b>		<b>1</b>
09/01/2013	12/27/2013	IP 60853	On-Site Fabrication Of Components And Construction On An ISFSI	
09/01/2013	12/27/2013	IP 60856.1	Review of 10 CFR 72.212(b) Evaluations at Operating Plants	
		<b>OL EXAM - FERMI INIT EXAM - 09/2013</b>		<b>3</b>
09/09/2013	09/13/2013	W90287	OL - INITIAL EXAM - 2013 AUG-SEPT - FERMI 2	
		<b>ISI BI - ISI BASELINE INSPECTION</b>		<b>1</b>
09/23/2013	10/04/2013	IP 7111108G	Inservice Inspection Activities - BWR	
		<b>BI OLRQ - BIENNIAL REQUAL PROGRAM INSPECTION</b>		<b>2</b>
10/21/2013	10/25/2013	IP 7111111B	Licensed Operator Requalification Program	