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

March 4, 2011

Mr. Jack M. Davis
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 05000341/2011001)

Dear Mr. Davis:

On February 17, 2011, 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, 2010, through December 31, 2010. 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 performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined that overall, Fermi Power Plant Unit 2 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

During the last assessment period, the staff identified a cross-cutting theme in the area of human performance (HP) with the aspect of Documentation/Procedures (H.2(c)). During that assessment period, there were six findings documented with cross-cutting aspects in the HP area. There was a cross-cutting theme in the area of HP because five of these findings shared a common cross-cutting Documentation/Procedures aspect (H.2(c)) and were from different cornerstones. Because all five of the findings with cross-cutting aspects of H.2(c) were identified during the component design bases inspection in the area of electrical calculations in the second quarter 2010, and you recognized this cross-cutting theme and implemented a range of actions to address this trend, the NRC did not have a concern in this area during the last assessment period. During this assessment period, there have been no additional findings

in that cross-cutting aspect in the area of HP and you are continuing to implement actions. Therefore, the NRC does not have a current concern with your actions. However, we note that your understanding of the scope of issues has broadened to other engineering areas and you are determining additional actions to be taken. We will continue to monitor engineering performance and your progress in improving this area.

The enclosed inspection plan lists the inspections scheduled through June 30, 2012. 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 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.

In addition to the ROP baseline, inspections are planned for Temporary Instruction 2515/179, "Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS"; and also Independent Spent Fuel Storage Installation (ISFSI) inspections 60854.1 "Preoperational Testing of ISFSIs at Operating Plants", 60855.1, "Operation of an ISFSI at Operating Plants", and 60856.1, "Review of 10 CFR 72.212(b) Evaluations at Operating Plants."

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 630-829-9619 with any questions you have regarding this letter.

Sincerely,

/RA by Julio Lara for/

John B. Giessner, Chief
Branch 4
Division of Reactor Projects

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

Enclosure: Fermi 2 Inspection/Activity Plan

cc w/encl: Distribution via ListServ

Fermi

Inspection / Activity Plan

03/01/2011 - 06/30/2012

Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
		ISFSI	**- ISFSI INSPECTION - SCHEDULE DEPENDENT**	**3**
01/01/2011	05/31/2011	IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants	
04/01/2011	04/30/2011	IP 60856.1	Review of 10 CFR 72.212(b) Evaluations at Operating Plants	
05/01/2011	07/31/2011	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
		BI ENG	**- TRIENNIAL FIRE PROTECTION INSPECTION**	**3**
03/21/2011	04/29/2011	IP 7111105T	Fire Protection [Triennial]	
		BI RP	**- RADIATION PROTECTION BASELINE INSPECTION**	**1**
03/28/2011	04/01/2011	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
03/28/2011	04/01/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
03/28/2011	04/01/2011	IP 71124.02	Occupational ALARA Planning and Controls	
		BI EP	**- EP ROUTINE INSPECTION / PI VERIFICATION**	**1**
04/11/2011	04/15/2011	IP 7111402	Alert and Notification System Testing	
04/11/2011	04/15/2011	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
04/11/2011	04/15/2011	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
04/11/2011	04/15/2011	IP 71151	Performance Indicator Verification	
		BI EP	**- EP EXERCISE INSPECTION**	**4**
06/06/2011	06/10/2011	IP 7111401	Exercise Evaluation	
		BI RP	**- RADIATION PROTECTION BASELINE INSPECTION**	**1**
06/13/2011	06/17/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
06/13/2011	06/17/2011	IP 71124.04	Occupational Dose Assessment	
06/13/2011	06/17/2011	IP 71151	Performance Indicator Verification	
		BI PI&R	**- BIENNIAL PI&R INSPECTION**	**4**
09/19/2011	10/07/2011	IP 71152B	Identification and Resolution of Problems	
		BI RP	**- RADIATION PROTECTION BASELINE INSPECTION**	**1**
08/29/2011	09/02/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
		BI OL	**- BIENNIAL REQUAL PROGRAM EVAL**	**2**
12/05/2011	12/09/2011	IP 7111111B	Licensed Operator Requalification Program	
		BI ENG	**- TRIENNIAL PERM MODS / 50.59**	**3**
01/16/2012	02/03/2012	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
		OL PREP	**- FERMI 2 INIT PREP 02/2012**	**3**
02/27/2012	03/02/2012	W90230	OL - INITIAL EXAM - MAR 2012 - FERM	
		OL EXAM	**- FERMI 2 INITIAL EXAM - 03/2012**	**3**
03/19/2012	03/30/2012	W90230	OL - INITIAL EXAM - MAR 2012 - FERM	
		BI ENG	**- INSERVICE INSPECTION**	**1**
03/24/2012	04/12/2012	IP 7111108G	Inservice Inspection Activities - BWR	

Fermi

Inspection / Activity Plan

03/01/2011 - 06/30/2012

Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
		BI RP	**- RADIATION PROTECTION BASELINE INSPECTION**	**1**
04/02/2012	04/06/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
04/02/2012	04/06/2012	IP 71124.02	Occupational ALARA Planning and Controls	
04/02/2012	04/06/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
04/02/2012	04/06/2012	IP 71124.04	Occupational Dose Assessment	
		BI RP	**- RADIATION PROTECTION BASELINE INSPECTION**	**1**
05/21/2012	05/25/2012	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
05/21/2012	05/25/2012	IP 71124.07	Radiological Environmental Monitoring Program	

in that cross-cutting aspect in the area of HP and you are continuing to implement actions. Therefore, the NRC does not have a current concern with your actions. However, we note that your understanding of the scope of issues has broadened to other engineering areas and you are determining additional actions to be taken. We will continue to monitor engineering performance and your progress in improving this area.

The enclosed inspection plan lists the inspections scheduled through June 30, 2012. 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 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.

In addition to the ROP baseline, inspections are planned for Temporary Instruction 2515/179, "Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS"; and also Independent Spent Fuel Storage Installation (ISFSI) inspections 60854.1 "Preoperational Testing of ISFSIs at Operating Plants", 60855.1, "Operation of an ISFSI at Operating Plants", and 60856.1, "Review of 10 CFR 72.212(b) Evaluations at Operating Plants."

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 630-829-9619 with any questions you have regarding this letter.

Sincerely,
/RA by Julio Lara for/
John B. Giessner, Chief
Branch 4
Division of Reactor Projects

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

Enclosure: Fermi 2 Inspection/Activity Plan

cc w/encl: Distribution via ListServ
DOCUMENT NAME: G:\DRPIII\1-Secy\1-Work In Progress\2010 EOC Letters\Fermi 2010 Annual Assessment Letter.docx
☐ Publicly Available ☐ Non-Publicly Available ☐ Sensitive ☐ Non-Sensitive
To receive a copy of this document, indicate in the concurrence box "C" = Copy without attach/encl "E" = Copy with attach/encl "N" = No copy

OFFICE	RIII		RIII					
NAME	RLerch:dtp		JGiessner*JL for					
DATE	02/25/11		02/28/11					

OFFICIAL RECORD COPY

Letter to J. Davis from J. Giessner dated March 4, 2011.

SUBJECT: ANNUAL ASSESSMENT LETTER FOR FERMI POWER PLANT, UNIT 2 (REPORT 05000341/2011001)

DISTRIBUTION:
Daniel Merzke
RidsNrrDorlLpl3-1 Resource
RidsNrrPMFermi2 Resource
RidsNrrDirsIrib Resource
Cynthia Pederson
Steven Orth
Jared Heck
Allan Barker
Carole Ariano
Linda Linn
DRPIII
DRSIII
Patricia Buckley
Tammy Tomczak
ROPassessment Resource