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

July 6, 2009

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: FERMI POWER PLANT UNIT 2 EVALUATION OF CHANGES, TESTS, OR EXPERIMENTS AND PERMANENT PLANT MODIFICATIONS BASELINE INSPECTION REPORT 05000341/2009-006(DRS)

Dear Mr. Davis:

On June 19, 2009, the U.S. Nuclear Regulatory Commission (NRC) completed Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications at the Fermi Power Plant Unit 2. The enclosed report documents the results of the inspection, which were discussed with Joseph Plona and other members of your staff at the completion of the inspection on June 19, 2009.

The inspection examined activities conducted under your license as they relate to safety and compliance with the Commissions' rules and regulations and with the conditions of your license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel. Based on the results of this inspection, no findings of significance were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records System (PARS) component of NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC Web site at http://www.nrc.gov/reading-rm/adams.html (the Public Electronic Reading Room).

Sincerely,

/RA/

Robert Daley, Chief
Engineering Branch 3
Division of Reactor Safety

Docket Nos. 50-341
License Nos. NPF-43

Enclosure: Inspection Report 05000341/2009006(DRS)
w/Attachment: Supplemental Information

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Letter to Mr. Jack M. Davis from Mr. Robert C. Daley dated July 6, 2009.

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cc w/encl: J. Plona, Vice President,
Nuclear Generation
K. Hlavaty, Plant Manager
R. Johnson, Manager, Nuclear Licensing
D. Pettinari, Legal Department
Michigan Department of Environmental Quality
G. Williams, Director, Monroe County
Emergency Management Division
Supervisor - Electric Operators
T. Strong, State Liaison Officer
Wayne County Emergency Management Division

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DATE	07/02/09		07/06/09					

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REGION III

Docket No:	50-341
License No:	NPF-43
Report No:	05000341/2008-005
Licensee:	Detroit Edison Company
Facility:	Fermi Power Plant, Unit 2
Location:	Newport, MI
Dates:	June 1–5, 2009 and June 15–19, 2009
Inspectors:	M. Holmberg, Reactor Inspector M. Munir, Reactor Inspector N. Feliz-Adorno, Reactor Inspector
Observer:	Atif Shaikh
Approved by:	R. Daley, Chief Engineering Branch 3 Division of Reactor Safety (DRS)

Enclosure

SUMMARY OF FINDINGS

IR 05000341/2009006; 06/01/2009 – 06/19/2009; Fermi Power Plant, Unit 2; Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications.

The inspection covered a two-week announced baseline inspection on evaluations of changes, tests, or experiments and permanent plant modifications. The inspection was conducted by three Region based engineering inspectors. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 4, dated December 2006.

A. Inspector-Identified and Self-Revealed Findings

No findings of significance were identified.

B. Licensee-Identified Violations

No findings of significance were identified.

REPORT DETAILS

1. REACTOR SAFETY

Cornerstones: Initiating Events, Mitigating Systems, and Barrier Integrity

1R17 Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications (71111.17)

.1 Title 10 CFR 50.59 Evaluations and Screenings

a. Inspection Scope

From June 1 through June 19, 2009, the inspectors reviewed three safety evaluations performed pursuant to 10 CFR 50.59 to determine if the evaluations were adequate and that prior NRC approval was obtained as appropriate. The inspectors also reviewed 22 screenings and 5 equivalency evaluations where licensee personnel had determined that a 10 CFR 50.59 evaluation was not necessary. The inspectors reviewed these documents to determine if:

- the changes, tests, or experiments performed were evaluated in accordance with 10 CFR 50.59 and that sufficient documentation existed to confirm that a license amendment was not required;
- the safety issue requiring the change, test or experiment was resolved;
- the licensee conclusions for evaluations of changes, tests, or experiments were correct and consistent with 10 CFR 50.59; and
- the design and licensing basis documentation was updated to reflect the change.

The inspectors used, in part, Nuclear Energy Institute (NEI) 96-07, "Guidelines for 10 CFR 50.59 Implementation," Revision 1, to determine acceptability of the completed evaluations, and screenings. The NEI document was endorsed by the NRC in Regulatory Guide 1.187, "Guidance for Implementation of 10 CFR 50.59, Changes, Tests, and Experiments," dated November 2000. The inspectors also consulted Part 9900 of the NRC Inspection Manual, "10 CFR Guidance for 10 CFR 50.59, Changes, Tests, and Experiments."

The inspectors reviewed all three safety evaluations that the licensee had issued over the baseline three year inspection cycle, which was below the minimum procedure required sample size. The inspectors also reviewed 27 samples of changes as defined in Inspection Procedure 71111.17-05. Based on this review scope, the procedure is considered complete with full sample not available.

b. Findings

No findings of significance were identified.

.2 Review of Permanent Plant Modifications

a. Inspection Scope

From June 1, 2009 through June 19, 2009, the inspectors reviewed 11 permanent plant modifications that had been installed in the plant during the last three years. This review included in-plant walkdowns for portions of the modified systems. The modifications were selected based upon risk significance, safety significance, and complexity. The inspectors reviewed the modifications selected to determine if:

- the supporting design and licensing basis documentation was updated;
- the changes were in accordance with the specified design requirements;
- the procedures and training affected by the modification have been updated;
- the test documentation as required by applicable test programs has been updated; and
- post-modification testing specified was sufficient to ensure functionality of the component modified, its associated system, and any support systems.

This inspection constitutes 11 samples as defined in Inspection Procedure 71111.17-05.

b. Findings

No findings of significance were identified.

4. OTHER ACTIVITIES (OA)

4OA2 Identification and Resolution of Problems

.1 Routine Review of Condition Reports

a. Inspection Scope

From June 1, 2009 through June 19, 2009, the inspectors reviewed Corrective Action Process documents that identified or were related to 10 CFR 50.59 evaluations and permanent plant modifications. The inspectors reviewed these documents to evaluate the effectiveness of corrective actions related to permanent plant modifications and evaluations for changes, tests, or experiments issues. In addition, corrective action documents written on issues identified during the inspection were reviewed to verify adequate problem identification and incorporation of the problems into the corrective action system. The specific corrective action documents that were sampled and reviewed by the inspectors are listed in the attachment to this report.

b. Findings

No findings of significance were identified.

4OA6 Management Meeting(s)

.1 Exit Meeting

The inspectors presented the inspection results to Mr. J. Plona and others of the licensee's staff, on June 19, 2009. Licensee personnel acknowledged the inspection results presented and did not identify any proprietary content. The inspectors returned proprietary material reviewed during the inspection to the licensee staff.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee Personnel

J. Plona, Site Vice President
M. Caragher, Director, Nuclear Engineering
S. Hassoun, Supervisor, Licensing
K. Howard, Plant Support Engineering
R. Johnson, Manager, Nuclear Licensing
B. Keck, Supervisor Support Engineering
K. Lawson, Plant Support Engineering
G. Ohlemacher, Supervisor, Licensing
B. Waybright, Plant Support Engineering

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

Opened ,Closed, and Discussed

None

LIST OF DOCUMENTS REVIEWED

The following is a list of documents reviewed during the inspection. Inclusion on this list does not imply that the NRC inspectors reviewed the documents in their entirety, but rather, that selected sections of portions of the documents were evaluated as part of the overall inspection effort. Inclusion of a document on this list does not imply NRC acceptance of the document or any part of it, unless this is stated in the body of the inspection report.

1R17 Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications

CALCULATIONS		
Number	Description or Title	Date or Revision
GE-NE-0000-0076-6420	Access Hole Cover-Top Hat Design weld Flaw Evaluation for Enrico Fermi Power Station Unit 2	0
DC-5349	AC Control Cable Voltage Drop Calculation for QA1, Div I	December 26, 2008
DC- 5352	DC Control Cable Voltage Drop Calculation for QA1, Div II	January 25, 2008
DC-0919	Under Voltage Relay Set Points	October 24, 2008
DC-5806	EECW Design Basis Requirements Calculation	August 11, 2006
DC-5405	Third Party review for Thrust capabilities of Wm. Powell Co. MOV's	February 10, 2005
DC-4255	Sizing of the primary containment pneumatic supply back-up nitrogen bottles	August 25, 2008
DC-6373	HPCI design head/flow requirements and IST criteria	November 6, 2007
DC-5719	Minimum Required Target Thrust for GL 89-10 Gate, Globe, and Quarter-turn Valves (torque)	May 19, 2009
DC-6309	Design Basis of EDG Fuel Oil and Day Tank Level Requirements and Setpoints	September 28, 2007
DC-6210	RHR pump seal cooler performance	December 21, 2007

CARD REPORTS		
Number	Description or Title	Date or Revision
04-20758	Evaluation/Assessment of the Requirement for Main Turbine Blade Under Frequency Protection Relaying	February 25, 2004
05-24072	Improvement Recommendation from the DTE Blackout Report	July 8, 2005
07-21134	EDG 11 Governor Temperature Higher than Vendor Manual Limit	February 26, 2007
07-23659	Design a Mechanism to Reduce Heat from Exhaust Manifold on Governor	June 29, 2007

07-26611	Linear Indications Identified in Access Hole Cover Ring Adjacent to Weld	October 24, 2007
07-27237	E515F013, RCIC pump supply to feedwater header isolation valve won't stroke from the control room	November 10, 2007
08-25101	29.EDM.09 Procedure/equipment issues	August 8, 2008
08-20924	Procedure enhancement for 20.000.23 High RPV Water Level	February 8, 2009
09- 21445	Code Interpretation and Applicability for Access Hole Cover Replacement	March 9, 2009
09-21507	Engineering Product Contained Technical Deficiency	March 11, 2009
09-22295	First Hole for 0 Degree Access Hole Cover Clamp Off Position	April 5, 2009
CARD REPORTS PROMPTED BY NRC REVIEW		
Number	Description or Title	Date or Revision
09-24353	Documentation error occurred during revision of DC-5719 Vol. 1	June 4, 2009
09-24399	Typo found in calculation DC-4255.	June 5, 2009
09-24451	Mods/50.59 – NRC Question Regarding Proper Instrument Line Slope	June 8, 2009
09-24449	NRC concern: Mods/50.59-Removal of tape	June 8, 2009
09-24506	NRC 50.59 – EDP 33703 Insufficient detail in development of DC5806 Impacts	June 10, 2009
09-24532	RFID Used for Clamp Design	June 11, 2009
09-24543	Missing Bolt Covers on EECW Heat Exchangers	June 11, 2009
09-24559	Inadequate control of post-LOCA and dedicated shutdown restoration of EECW flow to drywell cooling	June 11, 2009
09-24587	NRC identified N2 bottle still connected to T4901F011	June 12, 2009
09-24713	CGI Dedication Checklist Justification	June 16, 2009
09-24758	NRC Issue Identified During Mods and 50.59 Inspection on CGI Dedication Label Request	June 17, 2009
09-24771	Process Improvement for Design Input Transmittal to Vendors	June 18, 2009
09-24776	Screen 07-0272 Did not Properly Address Method Question	June 18, 2009
09-24766	Mod and 50.59 Inspection – Calculation DC-5349 Vol 1 and DC-5350 Vol 1 Changes Investigation	June 18, 2009
09-24769	Mods/50.59 ARP 8D70 potential deficiency	June 18, 2009

DRAWINGS		
Number	Description or Title	Date or Revision
6M721-2017-1, sht 1	Diagram-Off-Gas-Process System	BD
6M721-2013	Hydrogen Water Chemistry	A
06-37385-07	FlowServ Y-Globe Valve	0
6M721-5814	Core Spray System ISI	1
6WM-E21-5301-1	Piping Isometric Core Spray System Vent Lines Reactor Building	E
6SD721M-0001	One Line Diagram 345 KV Yard	Q
1-2731-01A	Schematic Diagram MTG # 2 Control & Relaying	O
1-2731-01	Schematic Diagram MTG # 2 Control & Relaying	M
6I721-2332-05	Schematic Turbine Tripping Circuits	S
6I721-2578-09	Relaying and Metering Diagram 4160 V ESS Bus No. 65E	O
6I721-2578-11	Relaying and Metering Diagram 4160 V ESS Bus 65F and 65T	L
6I721-2201-80	Schematic Diagram RHR Loop “A” Recirculation Inboard isolation Valve E1150F015A	I
6I721-2201-19	Schematic Diagram RHR Loop B to Recirculation Outboard Isolation Valve E1150F017B	Q
6I721-2201-81	Schematic Diagram RHR Loop A Recirculation Outboard Isolation Valve E1150F017A	I
MD21872	Pump Assembly Goulds Model 3410M	August 30, 2007
6M721-5007	Diagram Primary Containment Pneumatic Supply System	March 1, 2007

ENGINEERING DESIGN PACKAGES		
Number	Description or Title	Date or Revision
EDP-35953	Set Point Change for 4160 V Bus Low Voltage Alarm Sensor Assembly Div 2	November 14, 2008
EDP-35866	Hydrogen Water Chemistry Flow Improvement	December 16, 2008
EDP-35798	Install Mechanical Clamps to secure Zero Degree Access Hole Cover	April 11, 2009
EDP-35365	Installation of Plug in SRV B2104F013M Discharge Pipe to Repair a Small Hole	October 19, 2007
EDP-35336	Replace Reactor Head Vent Stainless Steel Isolation Valves with Carbon Steel Isolation Valves	October 19, 2007
EDP-35241	Modify EDGs to Reduce Governor Temperature	November 16, 2007
EDP-34482	Replace CPT’s for Design Pump Starters	August 19, 2006
EDP-34102	Install Under-frequency Trip Relaying on	March 10, 2009

	Main Turbine Generator	
EDP-33934	Provide Back up Nitrogen Bottles to Division 11 SRVs	July 27, 2006
EDP-33703	EECW Pump and Motor Replacement	August 22, 2007
EDP-33410	Increase Overall Ratio (OAR) for HPCI Steam Supply Outboard Isolation Valve E4150E003 and HPCI Pump Discharge Isolation Valve E4150F006	February 23, 2007
10 CFR 50.59 EVALUATIONS		
Number	Description or Title	Date or Revision
08-0279	Install Mechanical Clamps to Secure Zero Degree Access Hole Cover	March 6, 2009
08-0235	Hydrogen Water Chemistry Flow Improvement	November 26, 2008
08-0041	Install Under Frequency Trip Relaying on Main Turbine Generator	March 20, 2009
10 CFR 50.59 SCREENINGS		
Number	Description or Title	Date or Revision
06-0025	Provide backup nitrogen bottles to division II SRVs	July 10, 2006
06-0387	Maximum Acceptable Stroke Time for E4150F003 and E4150F006	February 19, 2007
06-0480	Replacement of EECW Pumps and Motors PIS P4400COOI A & P4400C001 B	September 12, 2007
07-0182	High RPV Water Level	August 27, 2007
07-0206	Update of the UFSAR to Reflect the cycle 13 Reload Design	September 19, 2007
07-0225	MCC Starter Control Circuit Changes for MOVs E11F015A, E1150F017A, E1150F017B	October 2, 2007
07-0241	Replace RPV Head Vent Valves and Change Piping Material From Stainless Steel to Carbon Steel	October 9, 2007
07-0249	Installation of Plug in SRV Discharge Pipe to Repair a Small Hole	October 18, 2007
07-0272	Revise HPCI design head/flow requirement and IST criteria basis	November 6, 2007
07-0283	AC Control Cable Voltage Drop Calculation for QA 1 Division 1	November 7, 2007
07-0328	DC Control Cable Voltage Drop Calculation for QA1 Division II	December 26, 2007
07-0330	RHR Pump Seal Cooler Performance	December 28, 2007

08-0161	UFSAR Section 8 for CARDs 08-21017 and 06-20986	August 19, 2008
08-0169	EDP 35621 Degraded Voltage Improvements this EDP Resolves Concerns Identified in NRC Back Fit Order	February 23, 2009
08-0190	Blackstart RCIC	September 8, 2008
08-0215	Under Voltage Relay Set Points	October 27, 2008
08-0238	Increasing Div II Bus Low Voltage Alarm 10D43	November 13, 2008
08-0249	Phase 2 Partial Implementation of EDP-35866	December 15, 2008
08-0254	GE RPV Pressure Temperature Curve Report Posting TSR-ABN-35951	December 1, 2008
09-0006	Relocate Vent Line on Division 1 Core Spray Injection Line	February 11, 2009
09-0017	DGSW Minimum Flow Requirements	February 17, 2009
09-0087	EDP 35798 Revision A, Install Mechanical Clamps to Secure Zero Degree AHC	April 11, 2009
EQUIVALENCY EVALUATIONS		
ERE 33305	Replacement RHR Service Water Pump Motor	April 19, 2007
ERE 35858	Replacement of the SmartPro Network UPS	October 16, 2008
TE-100090525	Technical Evaluation Document - Elbow	September 29, 2008
TE-100096110	Technical Evaluation Document - Bearings	August 30, 2008
TE-B11-08-074	Technical Evaluation- BWRVIP-135 Rev 1 Changes on Tech Spec Pressure-Temperature Curves	November 7, 2008
OPERABILITY EVALUATION		
Number	Description or Title	Date or Revision
OE 27773	Design Calculation Revision Resulted in the Need for Higher Divisional Bus Voltage	November 12, 2008
EFA-T41-05-001	Environmental Impact of Non-conservative ECCS and NIAS Room Fan Heat, Low T4100B020 Air Flow, Defective T4100B034 Cooling Coil Fans	May 1, 2006
OTHER DOCUMENTS		
Number	Description or Title	Date or Revision
MJM-DEC –KH1-08-076	Global Nuclear Fuel Letter -Revision 1 to Fermi Specific Amendment to the Fuel Warranty Operating Limit Document	March 20, 2009

001696T	Certified Material Test Report- 1" Plate SSAB Heat 768391	February 20, 1995
WO 25678487	Magnetic Particle Examination Record-SRV Tailpiece	October 21, 2007
WO 25678514	Magnetic Particle Examination Record-SRV Tailpiece	October 22, 2007
WO 25678514	Magnetic Particle Examination Record-SRV Tailpiece	October 23, 2007
GE-NE-0000-0025-3282-00	GE14 Fuel Design Cycle Independent Analysis for Fermi Unit 2.	0
GNF 0000-0040-7831-SRLR	Supplemental Reload Licensing Report for Enrico Fermi 2 Reload 12, Cycle 13	0
32-9093178-001	Fermi AHC Repair Clamp Structural and Crack Opening Analysis	1
08-9093055-002	Design Specification for Fermi 2 Access Hole Cover Clamp	February 18, 2009
GE-NE-0000-0052-5590-00	TRACG04 DIVOM 10 CFR 50.59 Evaluation Basis	0
WO 25786093	Liquid Penetrant Examination Report B2100F001/F002 Welds	October 27, 2009
WO 25786093	Liquid Penetrant Examination Report B21-2187-3045305 Welds	October 23, 2009
VMC2-24.3	Limitorque Vendor Manual Type SB, SBD, and SMD Valve Actuators	1
22A2246	GE Specification – Reactor Installation and Assembly Requirements	November 18, 1970
VME8-2.1	Vendor Manual EDG Governor Controls	September 18, 2007
LCR 06-050-UFS	FSAR changes due to EDP 33934	July 27, 2006
TSR-35395	HPCI Head-Flow Capability Revision and IST Basis	November 6, 2007
TSR-36030	Performance Criteria for DGSW Minimum Flow Valves	February 17, 2009
DCR 07-1342	Procedure 24.202.08	March 3, 2008
WO 000Z062980	Implement EDP 33410 to Change Actuator Gearing on E4150F003	November 11, 2007
WO 000Z063013	Implement EDP 33410 to Change Actuator Gearing on E4150F006	November 12, 2007
WO 26428593	Inspect Clutch Housing Area	April 15, 2009
WO 26428036	Inspect Clutch Housing Area	May 7, 2009
WO 000Z070289	Implement EDP 33458 (stpt change) for R30K402	November 20, 2008
WO 0026003922	Perform 24.202.08 Sec-5.1 HPCI Pump RTT & Operability	September 10, 2008
SOE 07-01	Perform in-service testing of the new EECW pump and motor for pump curve verification for EDP 33703 DCAT	November 2, 2007
WO 25134236	Install Engineered Raychem Assembly at P4400C001B Motor	October 10, 2007
WO 26108214	Perform 47.406.02 T4901F609 Design	April 19, 2009

	Flow & T4901F604 Leak Tightness Testing	
WO 000Z063919	Replacement of valve T4901F604 due to leak by	December 22, 2006
WO 25981328	SRVs Snoop Test	April 25, 2009
WO 25981352	SRVs Snoop Test	April 25, 2009
WO 25981452	SRVs Snoop Test	April 25, 2009
WO 25981406	SRVs Snoop Test	April 25, 2009
WO 25981373	SRVs Snoop Test	April 25, 2009
WO 25981303	SRVs Snoop Test	April 25, 2009
WO 000Z063013	Implement IDP 33410 to Change Gearing on E4150F006	November 11, 2007
WO 000Z062980	Implement IDP 33410 to Change Gearing on E4150F003	November 11, 2007
WO I894040100	Flush and Clean Div 1 RHR Pump A Seal Cooler	January 16, 2004
WO I897040100	Flush and Clean Div 2 RHR Pump B Seal Cooler	December 2, 2003
WO I899050100	Flush and Clean Div 1 RHR pump C Seal Cooler	December 12, 2008
WO I901040100	Flush and clean Div 2 RHR pump D Seal Cooler	December 2, 2003
WO 26662750	Perform 24.202.01 Sec-5.1 HPCI Pump Flow Test & Valve Stroke at 1025 psig	January 6, 2009

PROCEDURES

Number	Description or Title	Date or Revision
MES19	Preparation and Control of Engineering Design Packages	31
MLS14	Changes, Tests and Experiments	9
MES02	Design Configuration Management	17
MMM11	Dedication of Commercial Grade Items	10
MMA11	Post Maintenance Testing Guidelines	16
MES17	Conduct of Design Verification	16
MES18	Engineering Support Conduct Manual for Preparation and Control of Purchase Specifications	9
MES07	Review, Approval, and Control of Vendor Design Documents	11
47.000.02	Mechanical Vibration Measurement for Trending	41
T49F470-S	Primary Containment Pneumatic (PCP) Division 2 Backup Nitrogen Supply 2nd Stage – Pressure Regulator	July 26, 2006
23.406	Primary Containment Nitrogen Inerting and Purge System	April 16, 2009
ARP 8D70	Division I/II Pneumatic Supply Pressure High/Low	August 12, 2008

20.000.23	High RPV Water Level	August 5, 2008
24.202.08	HPCI time response and pump operability test at 1025 PSI	March 3, 2008
20.000.22	Plant Fires	April 17, 2008

LIST OF ACRONYMS USED

NEI	Nuclear Energy Institute
NRC	U.S. Nuclear Regulatory Commission