



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

September 2, 2008

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: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –
FERMI POWER PLANT, UNIT 2**

Dear Mr. Davis:

On August 14, 2008, the NRC staff completed its performance review of the Fermi Power Plant, Unit 2, for the first half of the calendar year 2008 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous 12 months. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only – Security Related Information" will include the Security Cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at Fermi Unit 2 was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility.

In our 2007 end-of-cycle assessment letter, dated March 3, 2008, (ADAMS Ref. ML080600499) we advised you of a substantive cross-cutting issue in the area of Human Performance, based on the number of findings with a common cross-cutting aspect of procedural adequacy (H.2(c)) and procedural adherence (H.4(b)). During this period, the number of findings with the same cross-cutting aspects was not reduced and our substantive cross-cutting issue criteria in IMC 0305 were met. You have initiated actions to improve performance, however, the scope and progress of your efforts in addressing the cross-cutting performance deficiencies has not been sufficient to provide adequate confidence in your effectiveness in resolving this issue. Therefore, this cross-cutting issue will remain open until the NRC gains confidence in your efforts and progress in addressing human performance errors. In addition, because you have a substantive cross-cutting issue in the area of Human Performance for two consecutive assessment cycles, we are requesting that you provide a written response to the issue to include a discussion of your actions undertaken, those actions planned to address the concern, and a current assessment of performance. This response should be sent to the NRC within

30 days of receipt of this letter. As an alternative to a written response, should you want to meet with us to discuss human performance at Fermi 2, a public meeting will be accommodated at an agreed upon time and location.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through December 31, 2009. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle review.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made 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).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact Ross Telson at 630-829-9619 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Cynthia D. Pederson, Director
Division of Reactor Projects

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

Enclosure: Fermi Inspection/Activity Plan

DISTRIBUTION:
See next page

Letter to J. Davis from C. Pederson dated September 2, 2008

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –
FERMI POWER PLANT, UNIT 2

cc w/encl: J. Plona, Vice President,
Nuclear Generation
K. Hlavaty, Plant Manager
R. Gaston, Manager, Nuclear Licensing
D. Pettinari, Legal Department
Michigan Department of Environmental Quality
M. Yudasz, Jr., Director, Monroe County
Emergency Management Division
Supervisor - Electric Operators
T. Strong, Chief, State Liaison Officer, State of Michigan
Wayne County Emergency Management Division
Chair, Wayne County Board of Commissioners
Wayne County Sheriff
Director, Wayne County Emergency
Management Agency
Mayor of Flat Rock
Mayor of Gibraltar
City Administrator of Gibraltar
Monroe County Board Chairman
Monroe County Sheriff
Director, Monroe County Emergency
Management Agency
Director, Monroe County Health Department
Mayor of Monroe
Monroe City Manager
Carleton Village President
Mayor of Rockwood
Rockwood City Administrator
Supervisor, Frenchtown Charter Township
G. Mortensen, INPO

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Cynthia D. Pederson, Director
Division of Reactor Projects

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|--------|------------|----------|-----------|--|--|--|--|
| OFFICE | RIII | RIII | RIII | | | | |
| NAME | RLerch:ntp | RTelson | CPederson | | | | |
| DATE | 08/26/08 | 08/27/08 | 08/29/08 | | | | |

OFFICIAL RECORD COPY

Letter to J. Davis from C. Pederson dated September 2, 2008

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –
FERMI POWER PLANT, UNIT 2

DISTRIBUTION:

Tamara Bloomer

RidsNrrDorLpI3-1

RidsNrrPMFerm2 Resource

RidsNrrDirslpab Resource

James Caldwell

Mark Satorius

Jared Heck

Kenneth Obrien

Allan Barker

DRPIII

DRSIII

Patricia Buckley

Tammy Tomczak

ROPreports@nrc.gov (inspection reports, final SDP letters, any letter with an IR number)

Fermi
Inspection / Activity Plan
09/01/2008 - 12/31/2009

| Inspection Activity | Title | No. of Staff on Site | Planned Dates Start | Planned Dates End | Inspection Type |
|---|---|-------------------------|------------------------|----------------------|--------------------------|
| BI RP - RADIATION PROTECTION BASELINE INSPECTION | | 1 | | | |
| IP 7112101 | Access Control to Radiologically Significant Areas | | 09/15/2008 | 09/19/2008 | Baseline Inspections |
| IP 71151-BI01 | Reactor Coolant System Activity | | 09/15/2008 | 09/19/2008 | Baseline Inspections |
| IP 71151-OR01 | Occupational Exposure Control Effectiveness | | 09/15/2008 | 09/19/2008 | Baseline Inspections |
| IP 71151-PR01 | RETS/ODCM Radiological Effluent | | 09/15/2008 | 09/19/2008 | Baseline Inspections |
| ISFSI - PAD CONSTRUCTION | | 1 | | | |
| IP 60856.1 | Review of 10 CFR 72.212(b) Evaluations at Operating Plants | | 09/30/2008 | 12/31/2008 | Other Routine |
| TI - TEMPORARY INSTRUCTION 2515/171 | | 2 | | | |
| IP 2515/171 | Verification of Site Specific Implementation Of B.5.b Phase 2 & 3 Mitigating Strategies | | 10/20/2008 | 10/24/2008 | Generic Safety Inspectio |
| BI RP - RADIATION PROTECTION BASELINE INSPECTION | | 1 | | | |
| IP 2515/173 | Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative | | 02/09/2009 | 02/20/2009 | Generic Safety Inspectio |
| IP 7112201 | Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems | | 02/09/2009 | 02/20/2009 | Baseline Inspections |
| BI EP - EP ROUTINE INSPECTION / PI VERIFICATION | | 1 | | | |
| IP 7111402 | Alert and Notification System Testing | | 02/09/2009 | 02/13/2009 | EP Baseline Inspection |
| IP 7111403 | Emergency Response Organization Augmentation Testing | | 02/09/2009 | 02/13/2009 | EP Baseline Inspection |
| IP 7111405 | Correction of Emergency Preparedness Weaknesses and Deficiencies | | 02/09/2009 | 02/13/2009 | EP Baseline Inspection |
| IP 71151-EP01 | Drill/Exercise Performance | | 02/09/2009 | 02/13/2009 | Baseline Inspections |
| IP 71151-EP02 | ERO Drill Participation | | 02/09/2009 | 02/13/2009 | Baseline Inspections |
| IP 71151-EP03 | Alert & Notification System | | 02/09/2009 | 02/13/2009 | Baseline Inspections |
| FY 2009 - FERMI INITIAL PREP 02/2009 | | 3 | | | |
| W90197 | OL - INITIAL EXAM - MARCH 2009 - FERM | | 02/16/2009 | 02/20/2009 | Not Applicable |
| OL EXAM - FERMI INITIAL LICENSE EXAMINATION | | 3 | | | |
| W90197 | OL - INITIAL EXAM - MARCH 2009 - FERM | | 03/09/2009 | 03/20/2009 | Not Applicable |
| BI ENG - ENGINEERING INSERVICE INSPECTION | | 2 | | | |
| IP 7111108G | Inservice Inspection Activities - BWR | | 04/06/2009 | 04/10/2009 | Baseline Inspections |
| BI RP - RADIATION PROTECTION BASELINE INSPECTION | | 2 | | | |
| IP 7112101 | Access Control to Radiologically Significant Areas | | 04/06/2009 | 04/10/2009 | Baseline Inspections |
| IP 7112102 | ALARA Planning and Controls | | 04/06/2009 | 04/10/2009 | Baseline Inspections |
| ISFSI - ISFSI - DESIGN AND PAD CONSTRUCTION | | 1 | | | |
| IP 60853 | On-Site Fabrication Of Components And Construction On An ISFSI | | 04/01/2009 | 09/30/2009 | Other Routine |
| IP 60856 | Review of 10 CFR 72.212(b) Evaluations | | 04/01/2009 | 09/30/2009 | Other Routine |
| BI ENG - ENGINEERING MODIFICATIONS / 50.59 INSP. | | 3 | | | |
| IP 7111117B | Evaluations of Changes, Tests, or Experiments & Permanent Plant Modifications | | 06/01/2009 | 06/19/2009 | Baseline Inspections |
| BI ENG - TRIENNIAL HEAT SINK INSPECTION | | 1 | | | |
| IP 7111107B | Heat Sink Performance | | 07/13/2009 | 07/17/2009 | Baseline Inspections |

Fermi
Inspection / Activity Plan
09/01/2008 - 12/31/2009

| Inspection Activity | Title | No. of Staff on Site | Planned Dates Start | Planned Dates End | Inspection Type |
|---------------------|--|-------------------------|------------------------|----------------------|----------------------|
| BI PI&R | - BIENNIAL PI&R INSPECTION | 4 | | | |
| IP 71152B | Identification and Resolution of Problems | | 09/21/2009 | 10/09/2009 | Baseline Inspections |
| BI RP | - RADIATION PROTECTION BASELINE INSPECTION | 1 | | | |
| IP 7112101 | Access Control to Radiologically Significant Areas | | 09/14/2009 | 09/18/2009 | Baseline Inspections |
| IP 7112102 | ALARA Planning and Controls | | 09/14/2009 | 09/18/2009 | Baseline Inspections |
| IP 71151-BI01 | Reactor Coolant System Activity | | 09/14/2009 | 09/18/2009 | Baseline Inspections |
| IP 71151-OR01 | Occupational Exposure Control Effectiveness | | 09/14/2009 | 09/18/2009 | Baseline Inspections |
| IP 71151-PR01 | RETS/ODCM Radiological Effluent | | 09/14/2009 | 09/18/2009 | Baseline Inspections |
| BI RP | - RADIATION PROTECTION BASELINE INSPECTION | 1 | | | |
| IP 7112202 | Radioactive Material Processing and Transportation | | 11/02/2009 | 11/06/2009 | Baseline Inspections |
| BI OL | - BIENNIAL REQUAL. PROGRAM INSPECTION | 2 | | | |
| IP 7111111B | Licensed Operator Requalification Program | | 12/14/2009 | 12/18/2009 | Baseline Inspections |