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U. S. Nuclear Regulatory Commission  
Attn.: Document Control Desk  
Washington, D.C. 20555

Reference: Enrico Fermi Atomic Power Plant, Unit 1  
NRC Docket No. 50-16  
NRC License No. DPR-9

Subject: Enrico Fermi Atomic Power Plant, Unit 1  
Annual Report for Period Ending June 30, 2014

Pursuant to Section F.7, Reporting Requirements, of the Technical Specifications for Possession-Only License No. DPR-9, the Annual Report for the period ending June 30, 2014 for the SAFSTOR Fermi 1 facility is enclosed.

Should you have any questions, please contact Daniel Breiding, Fermi 1 Custodian at 734-586-1912.

Sincerely,

Enclosure

cc: NRC Regional Administrator, Region III  
T. Smith, NRC (Washington, D.C.)  
NRC Resident Inspector - Fermi 2  
P. Lee, NRC Region III  
Michigan Department of Natural Resources & Environment  
(yalek@michigan.gov)

Enclosure to  
NRC-14-0064

**DTE ELECTRIC COMPANY**  
**ENRICO FERMI ATOMIC POWER PLANT, UNIT 1**

**Docket No. 50-16**  
**License No. DPR-9**

**Annual Report for Period**  
**July 1, 2013 through June 30, 2014**

Approved by:  Date: 8/18/14  
Daniel T. Breiding  
Fermi 1 Custodian

**ENRICO FERMI ATOMIC POWER PLANT, UNIT 1**  
**ANNUAL REPORT**  
**JULY 1, 2013 THROUGH JUNE 30, 2014**

**1.0 PREFACE**

This report provides a summary of the activities performed and the results of the facility surveillance program of the Enrico Fermi Atomic Power Plant, Unit 1, during the past twelve (12) months ending June 30, 2014.

In summary, required activities were conducted in accordance with the Possession-Only License and Technical Specifications. Fermi 1 is in passive monitoring SAFSTOR status.

**2.0 SAFSTOR STATUS**

**2.1 Health Physics**

**2.1.1 Personnel Exposure**

From July 1, 2013 through June 30, 2014, all monitored Fermi 1 personnel wore Dosimeters of Legal Record (DLRs). Additionally, Electronic Dosimeters (EDs) were worn throughout the reporting period as secondary dosimetry. All visitors were appropriately escorted and wore EDs, as a minimum, when entering all Fermi 1 Radiologically Restricted Areas (RRA).

The accumulated whole body dose for personnel assigned to Fermi 1 was 0.007 REM for this reporting period. The total dose is based on data from the following:

0.007 REM (DLR-based) 01JUL13 – 30APR14

0.000 REM (ED-based) 01MAY14 – 30JUN14

ED dose is presented for the part of the monitoring period when DLR data were not available at the time of this report.

**2.2 Surveillance Program**

**2.2.1 Environmental Surveys**

No liquid radiological releases occurred during this period; therefore, environmental monitoring samples were not required.

**2.2.2 Weekly Tests and Inspections**

**General area** --- The Fermi 1 staff performed walk through and visual inspections as required by Technical Specifications. No significant issues were identified during the inspections.

### **2.2.3 Monthly Inspections**

**Controlled Area Inspections** --- During the specified interval, Fermi 1 staff conducted visual inspections of the fences, gates, doors, and surveyed the sump water levels from the top access of all active sumps. No significant issues were identified during the inspections.

### **2.2.4 Quarterly Surveillances**

**Radiological Surveys** --- The Radiation Protection technicians monitored the Reactor Building and the Fuel and Repair Building (FARB) for presence of gamma radiation, as well as beta, gamma, and alpha contamination. There were no unexpected radiation readings detected. The results of the quarterly contamination surveys indicated general area walkways remain  $< 500$  dpm/100 cm<sup>2</sup> beta/gamma and  $< 20$  dpm/100 cm<sup>2</sup> alpha.

## **3.0 GROUNDWATER MONITORING**

The Fermi 1 staff collected groundwater monitoring well samples per the Fermi Integrated Ground Water Monitoring Program. No plant-related radioactive isotopes were detected during this monitoring period.

## **4.0 RADIOLOGICAL SHIPMENTS**

There were no radiological materials shipped offsite from Fermi 1 during the reporting period.

## **5.0 RADIOLOGICAL GASEOUS EFFLUENTS**

There were no radiological gaseous effluent releases during the reporting period.

## **6.0 50.59 EVALUATIONS, DESIGN CHANGES AND LER's**

### **6.1 10 CFR 50.59**

There were no 10 CFR 50.59 evaluations performed during this period. Screenings determined that 50.59 evaluations were not required.

### **6.2 Design Changes**

There were no Design Changes during this reporting period.

### **6.3 Licensee Event Reports**

There were no Licensee Event Reports (LER) during this reporting period.

**7.0     AUDIT SUBCOMMITTEE**

The Audit Subcommittee inspected the physical facility and reviewed the Technical Specification surveillance records during the reporting period. No significant problems were identified.

All audit reports are maintained on file.