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August 18, 2016
NRC-16-0053

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555-0001

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, 2016

Pursuant to Section F.7, Reporting Requirements, of the Technical Specifications for Provisional Operating License No. DPR-9, the Annual Report for the period ending June 30, 2016 for the SAFSTOR Fermi 1 facility is enclosed.

No new commitments are made in this letter.

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

Sincerely,

Keith J. Polson
Site Vice President
Nuclear Generation

Enclosure: Fermi 1 Annual Report for Period Ending June 30, 2016

cc: NRC Regional Administrator, Region III
T. Smith, NRC (Washington, DC)
NRC Resident Inspector – Fermi 2
P. Lee, NRC Region III
Michigan Public Service Commission
Regulated Energy Division (kindschl@michigan.gov)

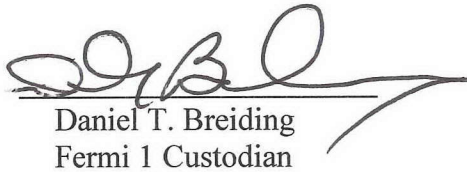
**Enclosure to
NRC-16-0053**

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

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

**Annual Report for Period
July 1, 2015 through June 30, 2016**

Approved by:


Daniel T. Breiding
Fermi 1 Custodian

Date: 8/17/16

ENRICO FERMI ATOMIC POWER PLANT, UNIT 1
ANNUAL REPORT
JULY 1, 2015 THROUGH JUNE 30, 2016

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 (Fermi 1), during the past twelve (12) months ending June 30, 2016.

In summary, required activities were conducted in accordance with the Operating 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, 2015 through June 30, 2016, 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 0.00 REM for this reporting period. The total dose is based on data from the following:

0.00 REM (DLR-based) 01JUL15 – 30JUN16

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 throughs 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 cm² beta/gamma and < 20 dpm/100 cm² alpha.

3.0 GROUNDWATER MONITORING

The Fermi 1 staff collected groundwater monitoring well samples and no plant-related radioactive isotopes were detected above background levels. The results between July 2015 and June 2016 have been reviewed. These samples were analyzed by the contract laboratory and all results were negative for tritium.

4.0 RADIOLOGICAL SHIPMENTS

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

5.0 RADIOLOGICAL EFFLUENTS

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

6.0 50.59 EVALUATIONS, DESIGN CHANGES, AND LERs

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 (LERs) 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.