



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

January 12, 2021

Mr. Pete Dietrich, Senior VP
And Chief Nuclear Officer
DTE Electric Company
Fermi 2 – 260 TAC
6400 North Dixie Highway
Newport, MI 48166

SUBJECT: NRC INSPECTION REPORT NO. 050-00016/2020-001(DNMS) - ENRICO
FERMI ATOMIC POWER PLANT, UNIT 1

Dear Mr. Dietrich:

On December 22, 2020, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at the permanently shut down Enrico Fermi Atomic Power Plant, Unit 1 (Fermi 1). The purpose of the inspection was to determine whether decommissioning activities were conducted safely and in accordance with NRC requirements. On December 22, the NRC inspector discussed the results of this inspection with members of your staff. The results of this inspection are documented in the enclosed report.

The inspection consisted of an examination of activities at the facility as they relate to safety and compliance with the Commission's rules and regulations. Areas examined during the inspection included facility management and control and radiological safety. Within these areas, the inspection consisted of a selective examination of procedures and representative records, field observations of activities in progress, and interviews with personnel.

Based on the results of this inspection, no violations of NRC requirements were identified.

This letter and its enclosure will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with 10 CFR 2.390, "Public Inspections, Exemptions for Withholding."

P. Dietrich

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We will gladly discuss any questions you have concerning this inspection. If you have any questions, please contact Dr. Peter Lee of my staff at (630) 829-9870.

Sincerely,

David E. Hills, Chief
Materials Control, ISFSI, and
Decommissioning Branch
Division of Nuclear Materials Safety

Docket No. 050-00016
License No. DPR-9

Enclosure:
IR No. 050-00016/2020-001(DNMS)

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Letter to Pete Dietrich from David Hills, dated January 12, 2021.

SUBJECT: NRC INSPECTION REPORT NO. 050-00016/2020-001(DNMS) - ENRICO
FERMI ATOMIC POWER PLANT, UNIT 1

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ADAMS Accession Number: ML21012A049

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U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket No.: 050-00016

License No.: DPR-9

Report No.: 050-00016/2020-001(DNMS)

Enterprise Identifier: I-2020-001-0085

Licensee: DTE Electric Company

Facility: Enrico Fermi Atomic Power Plant, Unit 1

Location: 6400 North Dixie Highway
Newport, MI 48166

Inspection Dates: December 9, 2020, to December 22, 2020

Inspectors: Peter J. Lee, Reactor (Decom) Inspector, Ph.D., CHP
Tomas Taylor, Resident Inspector, Fermi 2
Bill C. Lin, Health Physicist

Approved by: David E. Hills, Chief
Materials Control, ISFSI, and
Decommissioning Branch
Division of Nuclear Materials Safety

Enclosure

EXECUTIVE SUMMARY

Enrico Fermi Atomic Power plant, Unit 1 NRC Inspection Report 050-00016/2020-001(DNMS)

Enrico Fermi Atomic Power Plant, Unit 1 (Fermi 1) is a permanently shut down and defueled power reactor that has been maintained in a safe storage condition (SAFSTOR). Fermi1 is located adjacent to/co-located with the Fermi 2 operating reactor facility. This safety inspection reviewed the overall effectiveness of the licensee's programs for continued SAFSTOR of Unit 1.

Facility Management and Control

- The inspectors determined that the licensee had not performed any design changes that warranted an evaluation per Title 10 of the *Code of Federal Regulations* (CFR) 50.59. (Section 1.1)
- The inspectors determined that the licensee adequately implemented the audits of technical specification monitoring surveillances in accordance with its Quality Assurance Program. (Section 1.2)
- The inspectors concluded that the licensee conducted the facility monitoring surveillances in accordance with the requirement of Technical Specification. (Section 1.3)

Radiological Safety

- The inspectors determined that the licensee had not conducted any radiological work that resulted in worker exposures this past year. (Section 2.1)
- The inspectors determined that no detectable licensed radioactive material had been released to the environment through the discharges from the active sumps and the standing water in the Fuel and Repair Building. (Section 2.2)
- The inspectors determined that the licensee had no waste shipment this past year. (Section 2.3)

Report Details

Summary of Plant Activities

During the inspection period, the licensee continued to maintain Fermi 1 in a passive monitoring Safe Storage (SAFSTOR) status; therefore, no physical decommissioning activities have been conducted.

1.0 Facility Management and Control

1.1 Safety Reviews, Design Changes and Modifications (Inspection Procedure (IP) 37801)

a. Inspection Scope

The inspectors verified the need of safety evaluation for the design changes.

b. Observations and Findings

Based on the discussion with the licensee, there were no design changes this past year. This was consistent with the annual report filed by the licensee in August 2020 (ADAMS Accession Number ML20239B027). The inspector toured the facility and did not observe any design changes.

No findings of significance were identified.

c. Conclusions

The inspectors determined that the licensee had not performed any design changes that warranted an evaluation per 10 CFR 50.59.

1.2 Self-Assessment, Auditing, and Corrective Action (IP 40801)

a. Inspection Scope

The inspectors reviewed the licensee's audit of its technical specification monitoring surveillances of Audit 19-0112 conducted from December 09-12, 2019 and Audit 20-0105 conducted from June 08-10, 2020. Selected corrective action work orders associated with identified deficiencies were also reviewed.

b. Observations and Findings

The technical specification monitoring surveillances included weekly and monthly facility inspections, and quarterly radiation surveys. The audits of technical specification monitoring surveillances were appropriately focused in both scope and level of detail, and the licensee initiated appropriate corrective actions to resolve the audit findings.

No findings of significance were identified.

c. Conclusions

The inspectors determined that the licensee adequately implemented the audits of technical specification monitoring surveillances in accordance with its Quality Assurance Program.

1.3 Decommissioning Performance and Status Review at Permanently Shut Down Reactors (IP 71801)

a. Inspection Scope

The inspectors reviewed the licensee's weekly and monthly facility inspection results, and quarterly radiation surveillance results for 2020. The inspectors also toured the plant to observe the condition of the plant and the quarterly radiation surveillance.

b. Observations and Findings

The postings and boundaries for the contamination control were well maintained. Final status survey (FSS) areas were adequately isolated and posted. There were no unexpected radiation readings detected. The radiation readings were consistent with the measurements taken to support the licensee's return of Fermi 1 in early 2012 from active decommissioning to a passive monitoring SAFSTOR status (ADAMS accession Number ML12090A151).

No findings of significance were identified.

c. Conclusions

The inspectors concluded that the licensee conducted the facility monitoring surveillances in accordance with the requirement of Technical Specification.

2.0 Radiological Safety

2.1 Occupational Radiation Exposure (IP 83750)

a. Inspection Scope

The inspectors verified that the licensee had conducted radiological works in accordance with the NRC regulations in 10 CRF Part 20.

b. Observations and Findings

Based on the discussion with the licensee, there were no radiological work associated with worker exposures this past year. This was consistent with the annual report filed by the licensee in August 2020 ML20239B027.

No findings of significance were identified.

c. Conclusion

The inspectors determined that the licensee had not conducted any radiological works that resulted in worker exposures this past year.

2.2 Effluent and Environmental Monitoring (IP 84750)

a. Inspection Scope

The inspectors reviewed the analytical sampling data of ground water from Fermi 1 active sumps and the release of standing water in the basement of the Fuel and Repair Building (FARB) to evaluate the potential release of radioactive material to the environment.

b. Observations and Findings

According to Surveillance Performance Form, Event FI 98, Fermi 1 Sumps are sampled semi-annually. The standing water was due to the leaking into the basement of the FARB. Based on the review of the analytical sampling data from the releases of sumps and standing water, the inspector determined that only natural occurring radioactive materials were identified.

No findings of significance were identified.

c. Conclusion

The inspectors determined that no detectable licensed radioactive material had been released to the environment through the discharges from the active sumps and standing water in the basement of the FARB.

2.3 Transportation of Radioactive Materials (IP 86750)

a. Inspection Scope

The inspectors verified that shipments of radioactive material were made in accordance with the NRC regulations in 10 CRF Part 20 and 71 and Department of Transportation regulation in 49 CFR Parts 173-180.

b. Observations and Findings

Based on the discussion with the licensee, there were no shipments of radioactive material this past year. This was consistent with the annual report filed by the licensee in August 2020 (ML20239B027).

No findings of significance were identified.

c. Conclusion

The inspectors determined that the licensee had no waste shipment this past year.

3.0 Exit Meeting

The inspectors presented the inspection results to members of the licensee's staff at the conclusion of the inspection on December 22, 2020. The licensee did not identify any of the documents or processes reviewed by the inspector as proprietary.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION
PARTIAL LIST OF PERSONS CONTACTED

- * E. Olson, Site Vice President
- * R. Craven, Plant Manager
- * J. Walters, Radiation Protection Manager
- * M. Offerle, Manager Licensing
- * J. LaCasse, Principal Technical Specialist Fermi 1
- * B. Rumans, Program General Supervisor Radiation Protection
- * R. LaBurn, Expert Radiation Protection
- * N. Chuey, Senior Rates Analyst Regulatory Affairs

* Present at the December 22, 2020, exit meeting.

LIST OF PROCEDURES USED

- IP 71801: Decommissioning Performance and Status Review at Permanently Shut Down Reactors
- IP 37801: Safety Reviews, Design Changes and Modifications
- IP 40801: Self-Assessment, Auditing, and Corrective Action
- IP 83750: Occupational Radiation Exposure
- IP 84750: Effluent and Environmental Monitoring
- IP 86750: Transportation of Radioactive Materials

LIST OF ACRONYMS USED

- ADAMS Agency Document and Management System
- CFR Code of Federal Regulations
- FARB Fuel and Repair Building
- FSS Final Status Survey
- SAFSTOR Safe Storage
- DNMS Division of Nuclear Materials Safety
- NRC Nuclear Regulatory Commission

LICENSEE DOCUMENTS REVIEWED

Licensee documents reviewed and utilized during the course of this inspection are specifically identified in the "Report Details" above.

ITEMS OPENED, CLOSED, AND DISCUSSED

None