

DTE ELECTRIC COMPANY
DOCKET NO. 50-16
ENRICO FERMI ATOMIC POWER PLANT, UNIT 1
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 21
License No. DPR-9

1. The U.S. Nuclear Regulatory Commission (the Commission or the NRC) has found that:
 - A. The application for amendment by DTE Electric Company (the licensee) dated December 21, 2012, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance: (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations set forth in 10 CFR Chapter 1;
 - D. The licensee is technically and financially qualified to engage in the activities authorized by this amended license in accordance with the rules and regulations of the Commission;
 - E. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - F. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, Possession-Only License No. DPR-9 is hereby amended in its entirety to read as follows:
 - A. This amended license applies to the Enrico Fermi Atomic Power Plant, Unit No. 1 (Fermi 1, or the facility) owned by DTE Electric Company. The facility is located at the Lagoona Beach, Frenchtown Township, Monroe, Michigan, and is described in the Fermi 1 Safety Analysis Report as amended.

B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses DTE Electric Company:

- (1) Pursuant to Section 104(c) of the Act and 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities" to possess, but not to operate the facility.
- (2) Pursuant to the Act and 10 CFR Part 30, "Rules of General Applicability to Domestic Licensing of Byproduct Material" to possess, but not to separate, such byproduct material as may have been produced by operations of the reactor.
- (3) Pursuant to the Act and 10 CFR Part 30, "Rules of General Applicability to Domestic Licensing of Byproduct Material," to receive, acquire, possess, use and transfer byproduct material without restriction to chemical or physical form for sample analysis, instrument calibration, or associated with radioactive apparatus, hardware, tools, and equipment, provided the cumulative radioactive material quantity of the byproduct material does not exceed the criteria contained in Section 30.72, Schedule C, Quantities of Radioactive Materials Requiring Consideration of the Need for an Emergency Plan for Responding to a Release.
- (4) Pursuant to the Act and 10 CFR Part 70, "Domestic Licensing of Special Nuclear Material" to receive, acquire, possess, use and transfer, but not separate, special nuclear material in a quantity not to exceed 15 grams of U-235, U-233, or plutonium, or any combination thereof and not to exceed plutonium activity of 2 curies. If special nuclear material in quantities exceeding 15 grams or more than 2 curies of plutonium are identified in plant contamination in the future, this license permits possession and transfer of special nuclear material and the additional applicable requirements of 10 CFR Part 70, Part 73, and Part 74 will apply for the amount possessed.

C. This license shall be deemed to contain and is subject to the conditions specified in Part 20, Section 50.59 of Part 50, Section 30.34 of Part 30 of 10 CFR Chapter 1; and is subject to all applicable provisions of the Act, and to the rules, regulations, and orders of the Commission now or hereafter in effect, and is subject to the additional condition specified below:

The Technical Specifications contained in Appendix A, as revised through Amendment No.21, are hereby incorporated in this license. The licensee shall maintain the facility in accordance with the Technical Specifications.

D. This license is effective as of the date of its issuance and shall expire on March 20, 2025.

E. FACILITY MONITORING SURVEILLANCES

1. Radiation Surveillances – Surveillances shall be made to check for the presence of gamma radiation and transferable contamination on a quarterly basis. Gamma radiation measurements using portable survey instruments and contamination checks using smears shall be made of the following areas:

Reactor Building

- a. Operating floor
- b. Breather pipe
- c. Sump pump serving the reactor building annulus (until made inactive)

Fuel and Repair Building

- a. Pool areas (until decontamination of pools is complete)
- b. Operating floor access points to contamination areas

2. Inspection of Facility

- a. A weekly general walk-through and inspection of the facility shall be performed.
- b. A monthly inspection of the facility shall be made and potential problems reported to the Custodian or Delegate.
- c. A monthly visual water level check from the top access of all active sumps shall be performed.

F. ADMINISTRATIVE STANDARDS

The owner of this facility is DTE Electric Company. |

1. Custodian – The Licensee shall designate a Custodian.
2. Staff – The staff is made up of employees of DTE Electric Company. Their work may include responsibilities at the adjacent power plants as well as the Fermi 1 facility. Their job titles may be different than stated here; their authority and responsibility at the Fermi 1 facility shall, however, correspond to the following specifications. |
 - a. Custodian or Delegate – The responsibility of the Custodian or Delegate shall be to coordinate, approve and assign all work being done at the facility.

- b. Health Physicist – The Health Physicist shall review procedures and limits involving the handling of radioactive materials. The Health Physicist shall be responsible to see that all plant discharges and all shipments are within the limitations set forth in the Code of Federal Regulations.

The qualifications for the Health Physicist shall be two years of specialized training in health physics or equivalent and three years of work experience related to radiological health and safety.

3. Health Physics Technician – A person who has received training in health physics techniques and procedures shall be on site and may direct health physics activities whenever radioactive materials are being moved.
4. Review Committee – A Review Committee shall be established for the purpose of reviewing and approving facility monitoring results and procedures for activities at the facility and resolution of LERs.

The membership of the Review Committee shall be composed of five personnel from within DTE Electric Company or consultants, at least three (3) of whom have had two (2) years or more of experience in a responsible position at an operating nuclear power facility and have had basic health physics training. The Review Committee shall meet at intervals not to exceed 13 months and shall prepare formal minutes of its meetings.

5. Dosimetry – Dosimetry will be provided for personnel as required by monitoring requirements in 10 CFR 20.
6. Procedures – Procedures for the following activities shall be prepared and utilized:
 - a. Radiation control
 - b. Facility inspections

Procedures shall be reviewed and approved by the Review Committee. The Custodian may temporarily change a procedure by Written Order following determination that the change does not constitute a significant increase in the hazards associated with the operation.

7. Reporting Requirements – An annual report shall be made to the NRC summarizing the activities carried out and the results of the facility surveillance program.

A Licensee Event Report (LER) shall be phoned to NRC Region III within 24 hours of the discovery. A formal report shall be filed for any LER within 30 days of discovery. The report shall include a description of the occurrence together with steps taken to correct the situation.