



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

TMI-2 SOLUTIONS, LLC

DOCKET NO. 50-320

AMENDMENT TO POSSESSION ONLY LICENSE

Amendment No. 66  
License No. DPR-73

1. The Nuclear Regulatory Commission (the Commission or the NRC) has found that:
  - A. The application for license amendment filed by TMI-2 Solutions, LLC dated October 5, 2021 (Agencywide Documents Access and Management System Accession No. [ML21279A278](#)), as supplemented, on December 15, 2021 ([ML21354A027](#)) for Three Mile Island Station, Unit No. 2 (TMI-2) complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and applicable portions of the Commission's regulations set forth in Title 10 of the *Code of Federal Regulations* (10 CFR) Chapter I, "[Statement of Organization and General Information](#)," and all required notifications to other agencies or bodies have been duly made;
  - B. The facility will operate in conformity with the application, as supplemented, 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 I;
  - D. 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
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51, "[Environmental Protection Regulations for Domestic Licensing and Related Regulatory Functions](#)," of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the TMI-2 License Technical Specifications 6.9.2 a-q of Possession Only License No. DPR-73 and is hereby amended to read as follows:

- 6.9.2 The following records shall be retained as long as the Licensee has an NRC license to operate or possess the Three Mile Island facility.
- a. ALL REPORTABLE EVENTS submitted to the Commission.
  - b. Records of surveillance activities, inspections and calibrations required by these Technical Specifications.
  - c. Records of changes made to the procedures required by Recovery Technical Specification 6.8.1 and Post-Defueling Monitoring Storage (PDMS) Technical Specification 6.7.1.
  - d. Radiation Safety Program Reports and Quarterly Recovery Progress Reports on the March 28, 1979 incident.
  - e. Records of radioactive shipments.
  - f. Records and logs of radioactive waste systems operations.
  - g. Records and drawing changes reflecting facility design modifications made to systems and equipment described in the Safety Analysis Report, Technical Evaluation Report (TER), System Descriptions (SD), or Safety Evaluation previously submitted to the NRC.
  - h. Records of new and irradiated fuel inventory, fuel transfers and assembly burnup histories.
  - i. Records of training and qualifications for current members of the unit staff.
  - j. Records of Quality Assurance activities required by the Operating, Recovery, or PDMS Quality Assurance Plans.
  - k. Records of reviews performed for changes made to procedures or equipment or reviews of tests and experiments pursuant to 10 CFR 50.59, "[Changes, tests, and experiments](#)."
  - l. Records of meetings of the Plant Operation Review Committee (PORC) and the Generation Review Committee (GRC), and reports of evaluations prepared by the Independent Onsite Safety Review Group (IOSRG), if applicable to TMI-2.
  - m. Records of the incident which occurred on March 28, 1979.
  - n. Records of unit radiation and contamination surveys.
  - o. Records of radiation exposure received by all individuals for whom monitoring was required.

- p. Records of gaseous and liquid radioactive material released to the environs.
  - q. Records of reviews performed for changes made to the OFFSITE DOSE CALCULATION MANUAL.
3. This license amendment is effective immediately and shall be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION



Signed by Anderson, Shaun  
on 09/16/22

Shaun M. Anderson, Chief  
Reactor Decommissioning Branch  
Division of Decommissioning, Uranium Recovery  
and Waste Programs  
Office of Nuclear Material Safety  
and Safeguards

Attachment:  
Change to Possession Only  
License No. DPR-73

**Enclosure 2, Attachment**

**Changes to Possession Only License No. DPR-73**

ATTACHMENT TO LICENSE AMENDMENT NO. 66

TO POSSESSION ONLY LICENSE NO. DPR-73

DOCKET NO. 50-320

Replace the following page of the Possession Only License No. DPR-73 with the attached revised page. The revised page is identified by amendment number and contains marginal lines indicating the area of change.

Possession Only License No DPR-73

REMOVE  
Page 3

INSERT  
Page 3

Technical Specifications

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a source term that, if released, would exceed that previously analyzed in the PDMS Safety Analysis Report in terms of off-site dose consequences.

- C. This license shall be deemed to contain and is subject to the conditions specified in the Commission's regulations in 10 CFR Chapter I, and is subject to all applicable provisions of the Act and to the Commission's rules and regulations, except for those exemptions from specific portions of the regulations granted by the Commission and still applicable, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

(1) Technical Specifications

The Technical Specifications, as revised through Amendment No. 66 are hereby incorporated into this license. The licensee shall operate the facility in accordance with the Technical Specifications and all Commission Orders issued subsequent to the date of the possession only license.

(2) Physical Protection

TMI-2 utilizes a security plan (TMI-2 Materials Security Plan) that is compliant with 10 CFR Part 37, "Physical Protection of Category 1 and Category 2 Quantities of Radioactive Material." The plan will implement 10 CFR Part 37 security requirements and also implement specific 10 CFR 73.67 security requirements referenced in the security plan that are not addressed by Part 37.

- (3) Upon the date of closing, and proceeding until determination of completion of Phase 2 of facility decommissioning, TMI-2 Solutions will maintain a Financial Support Agreement in the amount of \$100M, less the value of any cash-funded Provisional Trust Account, Disposal Capacity Easement, and Letter of Credit procured by TMI-2 Solutions for the benefit of the Back-Up Trust Account under the Back-Up & Provisional Trust Agreement.

- (4) At time of closing, EnergySolutions, Inc. will provide a Parent Guarantee in favor of the FirstEnergy Companies to guarantee the payment and performance of the obligations of TMI-2 Solutions as to the TMI-2 decommissioning. This guarantee makes the resources of EnergySolutions available to help ensure the successful decommissioning of TMI-2, assuring the ability of TMI-2 Solutions to: (i) pay the costs of decommissioning the TMI-2 facility; (ii) protect the public health and safety; and (iii) meet NRC requirements.

- (5) These financial support conditions (2.C.(3) and 2.C.(4)) may not be voided, canceled, or modified without the prior written consent of the NRC. These financial support conditions are in place and will be maintained as described in the application. The Director of the Office of Nuclear Material Safety and Safeguards shall be informed, in writing, no later than 10 working days after any funds are provided under the terms of the conditions listed above.

## ADMINISTRATIVE CONTROLS

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### 6.8 REPORTING REQUIREMENTS (cont.)

#### PROMPT REPORTS

6.8.3.1 Those events specified as prompt report occurrences shall be reported within 24 hours by telephone, telegraph, or facsimile transmission to the NRC followed by a written report to the NRC within 30 days.

#### THIRTY DAY EVENT REPORTS

6.8.3.2 Nonroutine events not requiring a prompt report as described in Subsection 6.8.3.1, shall be reported to the NRC either within 30 days of their occurrence or within the time limit specified by the reporting requirement of the corresponding certification or permit issued pursuant to Sections 401 or 402 of PL 92-500, the Federal Water Pollution Control Act (FWPCA) Amendment of 1972, whichever time duration following the nonroutine event shall result in the earlier submittal.

#### CONTENT OF NONROUTINE REPORTS

6.8.3.3 Written 30-day reports and, to the extent possible, the preliminary telephone, telegraph, or facsimile reports shall (a) describe, analyze, and evaluate the occurrence, including extent and magnitude of the impact, (b) describe the cause of the occurrence, and (c) indicate the corrective action (including any significant changes made in procedures) taken to preclude repetition of the occurrence and to prevent similar occurrences involving similar components or systems.

### 6.9 RECORD RETENTION

6.9.1 The following records shall be retained for at least five years:

- a. Records of sealed sources and fission detection leak tests and results.
- b. Records of annual physical inventory of all sealed source material of record.

6.9.2 The following records shall be retained as long as the Licensee has an NRC license to operate or possess the Three Mile Island facility.

- a. ALL REPORTABLE EVENTS submitted to the Commission.
- b. Records of surveillance activities, inspections and calibrations required by these Technical Specifications.

## ADMINISTRATIVE CONTROLS

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### 6.9 RECORDS RETENTION (cont.)

- c. Records of changes made to the procedures required by Recovery Technical Specification 6.8.1 and PDMS Technical Specification 6.7.1.
- d. Radiation Safety Program Reports and Quarterly Recovery Progress Reports on the March 28, 1979 incident.
- e. Records of radioactive shipments.
- f. Records and logs of radioactive waste systems operations.
- g. Records and drawing changes reflecting facility design modifications made to systems and equipment described in the Safety Analysis Report, TER, SD, or Safety Evaluation previously submitted to the NRC.
- h. Records of new and irradiated fuel inventory, fuel transfers and assembly burnup histories.
- i. Records of training and qualifications for current members of the unit staff.
- j. Records of Quality Assurance activities required by the Operating, Recovery, or PDMS Quality Assurance Plans.
- k. Records of reviews performed for changes made to procedures or equipment or reviews of tests and experiments pursuant to 10 CFR 50.59.
- l. Records of meetings of the PORC and the GRC, and reports of evaluations prepared by the IOSRG, if applicable to TMI-2.
- m. Records of the incident which occurred on March 28, 1979.
- n. Records of unit radiation and contamination surveys.
- o. Records of radiation exposure received by all individuals for whom monitoring was required.



## ADMINISTRATIVE CONTROLS

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### 6.9 RECORD RETENTION (cont.)

- p. Records of gaseous and liquid radioactive material released to the environs.
- q. Records of reviews performed for changes made to the OFFSITE DOSE CALCULATION MANUAL.

### 6.10 RADIATION PROTECTION PROGRAM

Procedures for personnel radiation protection shall be prepared consistent with the requirements of 10 CFR Part 20 and shall be approved, maintained, and adhered to for all operations involving personnel radiation exposure.

### 6.11 HIGH RADIATION AREA

6.11.1 In lieu of the "control device" or "alarm signal" required by paragraph 20.1601 of 10 CFR 20:

- a. Each High Radiation Area in which the intensity of radiation at 30 cm (11.8 in.) is greater than 100 mrem/hr deep dose but less than 1000 mrem/hr shall be barricaded and conspicuously posted as a High Radiation Area, and personnel desiring entrance shall obtain a Radiation Work Permit (RWP). Any individual or group of individuals entering a High Radiation Area shall (a) use a continuously indicating dose rate monitoring device or (b) use a radiation dose rate Integrating device which alarms at a pre-set dose level (entry into such areas with this monitoring device may be made after the dose rate level in the area has been established and personnel have been made knowledgeable of them), or (c) assure that a radiological control technician provides positive control over activities within the area and periodic radiation surveillance with a dose rate monitoring instrument.
- b. In addition to the requirements of specification 6.11.1.a:
  - 1. Any area accessible to personnel where an individual could receive in any one hour a deep dose in excess of 1000 mrem at 30 cm (11.8 in.) but less than 500 rads at one meter (3.28 ft), from sources of radioactivity shall be locked or guarded to prevent unauthorized entry. The keys to these locked barricades shall be maintained under the administrative control of the respective Radiological Controls Supervisor.
  - 2. For individual high radiation areas where an individual could receive in any one hour a deep dose in excess of 1000 mrem at 30 cm (11.8 in.) but less than 500 rads at one meter (3.28 ft.), that are located within large areas such as reactor containment, where no enclosure exists for purposes of locking, and where no enclosure can be reasonably constructed around the Individual area, that individual area shall be barricaded and conspicuously posted, and a flashing light shall be activated as a warning device.

The Radiation Work Permit is not required by Radiological Controls personnel during the performance of their assigned radiation protection duties provided they are following radiological control procedures for entry into High Radiation Areas.