



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

CONSTELLATION ENERGY GENERATION, LLC

THREE MILE ISLAND NUCLEAR STATION, UNIT 1

DOCKET NOS. 50-289 AND 72-77

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 304
Renewed License No. DPR-50

1. The U.S. Nuclear Regulatory Commission (NRC, the Commission) has found that:
 - A. The application for amendment by Exelon Generation Company, LLC dated December 20, 2020, as supplemented on March 28, 2022, by Constellation Energy Generation, LLC, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in Title 10 of the *Code of Federal Regulations* (10 CFR), Chapter I, and all required notifications to other agencies or bodies have been duly made;
 - B. The facility will operate in conformity with the application, 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 rules and regulations;
 - 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 as indicated in the attachment to this license amendment. Specifically, paragraph 2.c.(2) of Renewed Facility Operating License No. DPR-50 is hereby amended to read as follows:

The Technical Specifications contained in Appendix A, as revised through Amendment No. 304, are hereby incorporated in the license. Constellation Energy Generation, LLC shall operate the facility in accordance with the Permanently Defueled Technical Specifications (PDTS).

Further, Renewed Facility Operating License No. DPR-50 is hereby amended to:

- Delete License Condition 1.j related to aging management
 - Delete License Condition 2.c.(17) related to mitigation strategies
 - Delete License Condition 2.c.(21) related to maintaining programs and activities for managing the effects of aging during the period of extended operation
 - Delete License Condition 2.c.(22) to related to the restriction of handling irradiated fuel in the spent fuel pools (SFPs) for 60 days post permanent shutdown.
3. This license amendment is effective upon the date of submittal of written notification to the NRC, pursuant to 10 CFR 50.82(a), that all spent nuclear fuel assemblies have been transferred out of the Three Mile Island, Unit 1 SFPs and placed in dry storage within the onsite independent spent fuel storage installation and shall be implemented within 90 days following that date.

FOR THE NUCLEAR REGULATORY COMMISSION



Signed by Watson, Bruce
on 03/31/22

Bruce A. Watson, CHP, Chief
Reactor Decommissioning Branch
Division of Decommissioning, Uranium Recovery
and Waste Programs
Office of Nuclear Material Safety
and Safeguards

Enclosures:
Changes to the Renewed Facility
Operating License and Technical
Specifications

Date of Issuance: April 19, 2022

ATTACHMENT TO LICENSE AMENDMENT NO. 304

THREE MILE ISLAND NUCLEAR STATION, UNIT 1

RENEWED FACILITY OPERATING LICENSE NO. DPR-50

DOCKET NO. 50-289

Replace the following pages of Renewed Facility Operating License No. DPR-50 and Appendix A, Technical Specifications, with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the area of change.

Renewed Facility Operating License No. DPR-50

REMOVE

Page 2
Page 4
Page 5
Page 6 (repaginated only)

INSERT

Page 2
Page 4
Page 5
-No Page-

Technical Specifications

REMOVE

i through ii
Cover Sheet (1.0) and 1-1
3/4-1 through 3/4-10
Cover Sheet (5.0) and 5-1 through 5-3
Cover Sheet (6.0), 6-1, 6-2, and 6-11 through 6-15

INSERT

i
-No Pages-
-No Pages-
5-1
6-1 through 6-2

- i. The receipt, possession, and use of source, byproduct and special nuclear material as authorized by this license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40, and 70, including 10 CFR Section 30.33, 40.32, 70.23 and 70.31.
 - j. DELETED
2. Renewed Facility License No. DPR-50 is hereby issued to Constellation Energy Generation, LLC to read as follows:
- a. This renewed license applies to the Three Mile Island Nuclear Station, Unit 1, a pressurized water reactor and associated equipment (the facility), owned by Constellation Energy Generation, LLC. The facility is located in Dauphin County, Pennsylvania, and is described in the "Updated Final Safety Evaluation Report (UFSAR)" as supplemented and amended and the Environmental Report as supplemented and amended.
 - b. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses:
 - (1) Constellation Energy Generation, LLC pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," to possess and use the facility as required for fuel storage in accordance with the procedures and limitations set forth in this renewed license;
 - (2) Constellation Energy Generation, LLC pursuant to the Act and 10 CFR Parts 30, 40 and 70 to possess at any time any byproduct, source and special nuclear material used previously as reactor fuel, sealed neutron sources used previously for reactor startup, as fission detectors, and sealed sources for reactor instrumentation and to possess and use at any time any byproduct, source and special nuclear material as sealed sources for radiation monitoring equipment calibration in amounts as required;

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 304, are hereby incorporated in the license. Constellation Energy Generation, LLC shall operate the facility in accordance with the Permanently Defueled Technical Specifications (PDTS).

(3) Physical Protection

Constellation Energy Generation, LLC shall fully implement and maintain in effect all provisions of the Commission-approved physical security, training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822), and the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The combined set of plans¹, submitted by letter dated May 17, 2006, is entitled: "Three Mile Island Nuclear Station Security Plan, Training and Qualification Plan, and Safeguards Contingency Plan, Revision 3." The set contains Safeguards Information protected under 10 CFR 73.21.

(4) DELETED

(5) DELETED

(6) Inservice Testing - DELETED

(7) Aircraft Movements - DELETED

(8) Repaired Steam Generators - DELETED

(9) Long Range Planning Program - DELETED

Sale and License Transfer Conditions

(10) Constellation Energy Generation, LLC shall provide to the Director of the Office of Nuclear Reactor Regulation or the Director of the Office of Nuclear Material Safety and Safeguards, as applicable, a copy of any application, at the time it is filed, to transfer (excluding grants of security interests or liens) from Constellation Energy Generation, LLC to its direct or indirect parent, or to any other affiliated company, facilities for the production, transmission, or distribution of electric energy having a depreciated book value exceeding ten percent (10%) of Constellation Energy Generation, LLC's consolidated net utility plant, as recorded on Constellation Energy Generation, LLC's books of account.

(11) DELETED

(12) DELETED

¹ The Training and Qualification Plan and Safeguards Contingency Plan are Appendices to the Security Plan.

(13) DELETED

(14) DELETED

(15) Constellation Energy Generation, LLC shall take all necessary steps to ensure that the decommissioning trust is maintained in accordance with the application, the requirements of the Order Approving Transfer of License and Conforming Amendment, dated January 8, 2009, and the related Safety Evaluation dated December 23, 2008.

(16) DELETED

(17) DELETED

(18) DELETED

(19) DELETED

(20) DELETED

(21) DELETED

(22) DELETED

- d. This license is effective as of the date of issuance and is effective until the Commission notifies the licensee in writing that the license is terminated.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA/

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation

Attachment: Appendix A, Technical
Specifications

Date of Issuance: October 22, 2009

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5.0 DESIGN FEATURES

5.1 SITE

Specification

- 5.1.1 The description of the Three Mile Island Unit 1 site, including Exclusion/Restricted Area as defined in 10 CFR 100.3, is located in the Final Safety Analysis Report, as updated.

5.2 SPENT FUEL STORAGE FACILITIES

Specification

5.2.1 SPENT FUEL STORAGE

Spent fuel shall not be stored in the “A” or “B” spent fuel pools.

6.0 ADMINISTRATIVE CONTROLS

6.1 REPORTING REQUIREMENTS

6.1.1 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

The Annual Radioactive Effluent Release Report covering the facility during the previous calendar year shall be submitted prior to May 1 of each year.

The Report shall include a summary of the quantities of radioactive liquid and gaseous effluent and solid waste released from the unit. The material provided shall be: (1) consistent with the objectives outlined in the ODCM and Process Control Program (PCP); and, (2) in conformance with 10 CFR 50.36(a) and Section IV.B.1 of Appendix I to 10 CFR Part 50.

Note: A single submittal may be made for the station. The submittal should combine those sections that are common to both units at the station.

6.2 HIGH RADIATION AREA

Pursuant to 10 CFR Part 20, paragraph 20.1601(c), in lieu of the requirements of paragraph 20.1601(a) and 20.1601(b) of 10 CFR Part 20:

6.2.1 Access to each high radiation area, as defined in 10 CFR 20, in which an individual could receive a deep dose equivalent > 0.1 rem in one hour (at 30 centimeters from the radiation source or from any surface penetrated by the radiation) shall be controlled as described below to prevent unauthorized entry.

- a. Each area shall be barricaded and conspicuously posted as a high radiation area. Such barricades may be opened as necessary to permit entry or exit of personnel or equipment.
- b. Entrance shall be controlled by requiring issuance of a Radiation Work Permit (RWP) or equivalent that includes specification of radiation dose rate in the immediate work area(s) and other appropriate radiation protection equipment and measures.
- c. Individuals qualified in radiation protection procedures or personnel continuously escorted by such individuals may, for the performance of their assigned duties in high radiation areas, be exempt from the preceding requirements for issuance of an RWP or equivalent provided they are otherwise following plant radiation protection procedures for entry into, exit from, and work in such high radiation areas.

- d. Each individual or group of individuals permitted to enter such areas shall possess, or be accompanied by, one or more of the following:
 - 1. A radiation monitoring device that continuously indicates the radiation dose rate in the area.
 - 2. A radiation monitoring device that continuously integrates the radiation dose rate in the area and alarms when a preset setpoint is reached. Entry into high radiation areas with this monitoring device may be made after the dose rate in the area has been determined and personnel have been made knowledgeable of it.
 - 3. A radiation monitoring device that continuously transmits dose rate and cumulative dose information to a remote receiver monitored by radiation protection personnel responsible for controlling personnel radiation exposure within the area.
 - 4. An individual qualified in radiation protection procedures equipped with a radiation dose rate monitoring device. This individual shall be responsible for providing positive radiation protection control over the activities within the area and shall perform periodic radiation surveillance at the frequency specified by radiation protection supervision.

6.2.2 In addition to the requirements of Specification 6.12.1, high radiation areas in which an individual could receive a deep dose equivalent > 1.0 rem in one hour (at 30 centimeters from the radiation source or from any surface penetrated by the radiation), but less than 500 rads/hour (at 1 meter from the radiation source or from any surface penetrated by the radiation) shall be provided with a locked or continuously guarded door, or gate, or equivalent to prevent unauthorized entry.

- a. The keys to such locked doors or gates, or equivalent, shall be administratively controlled in accordance with a program approved by the radiation protection manager.
- b. Doors and gates, or equivalent, shall remain locked except during periods of access by personnel under an approved RWP, or equivalent, to ensure individuals are informed of the dose rate in the immediate work areas prior to entry.
- c. Individual high radiation areas in which an individual could receive a deep dose equivalent > 1.0 rem in one hour (at 30 centimeters from the radiation source or from any surface penetrated by the radiation), accessible to personnel, that are located within larger areas where no enclosure exists to enable locking, or that are not continuously guarded, and where no lockable enclosure can be reasonably constructed around the individual area require both of the following access controls:
 - 1. Each area shall be barricaded and conspicuously posted.
 - 2. A flashing light shall be activated as a warning device.