



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

May 13, 2025

David P. Rhoades
Senior Vice President
Constellation Energy Generation, LLC
President and Chief Nuclear Officer
Constellation Nuclear
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: THREE MILE ISLAND NUCLEAR STATION, UNIT 1 – ISSUANCE OF
AMENDMENT NO. 306 RE: FACILITY NAME CHANGE FROM THREE MILE
ISLAND NUCLEAR STATION, UNIT 1 TO CHRISTOPHER M. CRANE CLEAN
ENERGY CENTER (EPID L-2025-LLA-0008)

Dear David Rhoades:

The U.S. Nuclear Regulatory Commission (the Commission) has issued the enclosed Amendment No. 306 to Renewed Facility License No. DPR-50 for the Three Mile Island Nuclear Station, Unit 1 (now the Christopher M. Crane Clean Energy Center) in response to your application dated January 13, 2025.

The amendment revises Renewed Facility License No. DPR-50 and its appendix, the Permanently Defueled Technical Specifications, to reflect a change in the name of the facility from "Three Mile Island Nuclear Station, Unit 1," to "Christopher M. Crane Clean Energy Center."

A copy of the related safety evaluation is also enclosed. Notice of Issuance will be included in the Commission's monthly *Federal Register* notice.

Sincerely,

/RA/

Brent T. Ballard, Project Manager
Plant Licensing Branch III
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-289

Enclosures:

1. Amendment No. 306 to DPR-50
2. Safety Evaluation

cc: Listserv



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CONSTELLATION ENERGY GENERATION, LLC

DOCKET NO. 50-289

CHRISTOPHER M. CRANE CLEAN ENERGY CENTER

AMENDMENT TO RENEWED FACILITY LICENSE

Amendment No. 306
Renewed License No. DPR-50

1. The U.S. Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Constellation Energy Generation, LLC (the licensee) dated January 13, 2025, 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 10 CFR Chapter I;
 - 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 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 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to Renewed Facility License No. DPR-50 and its appendix, the Permanently Defueled Technical Specifications, as indicated in the attachment to this license amendment, and paragraph 2.c.(2) of Renewed Facility License No. DPR-50 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 306, are hereby incorporated in the license. Constellation Energy Generation, LLC shall maintain the facility in accordance with the Permanently Defueled Technical Specifications (PDTs).

3. This license amendment is effective as of its date of issuance and shall be implemented within 60 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Ilka Berrios, Acting Chief
Plant Licensing Branch III
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Attachment:
Changes to Renewed Facility License
No. DPR-50 and the Permanently
Defueled Technical Specifications

Date of Issuance: May 13, 2025

ATTACHMENT TO LICENSE AMENDMENT NO. 306

CHRISTOPHER M. CRANE CLEAN ENERGY CENTER

RENEWED FACILITY LICENSE NO. DPR-50

DOCKET NO. 50-289

Replace the following pages of the Renewed Facility License with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Remove

1
2
3
4

Insert

1
2
3
4

Replace the following pages of the Appendix A Permanently Defueled Technical Specifications with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Remove

5-1

Insert

5-1



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CONSTELLATION ENERGY GENERATION, LLC

Christopher M. Crane Clean Energy Center

DOCKET NO. 50-289

RENEWED FACILITY LICENSE

Renewed License No. DPR-50

1. The Nuclear Regulatory Commission (the Commission) having found that:
 - a. The application for a renewed license filed by the applicant 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 10 CFR Chapter 1 and all required notifications to other agencies or bodies have been duly made;
 - b. DELETED
 - c. The facility will be maintained in conformity with the application, as amended, the provisions of the Act and the rules and regulations of the Commission;
 - d. There is a reasonable assurance: (1) that the activities authorized by this renewed license can be conducted without endangering the health and safety of the public, and (2) that such activities will be conducted in compliance with the rules and regulations of the Commission;
 - e. Constellation Energy Generation, LLC is technically and financially qualified to engage in the activities authorized by this renewed operating license in accordance with the rules and regulations of the Commission;
 - f. Constellation Energy Generation, LLC has satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;
 - g. The issuance of this renewed license will not be inimical to the common defense and security or to the health and safety of the public;
 - h. After weighing the environmental, economic, technical, and other benefits of the facility against environmental costs and considering available alternatives, the issuance of Renewed Facility License No. DPR-50 is in accordance with 10 CFR Part 50, Appendix D, of the Commission's regulations and all applicable requirements of said Appendix D have been satisfied;

- 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 Christopher M. Crane Clean Energy Center (Crane Clean Energy Center or CCEC), 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;

- (3) Constellation Energy Generation, LLC, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess at either CCEC or TMI-2, and use in amounts as required for CCEC any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis, testing, instrument calibration, or associated with radioactive apparatus or components. Other than radioactive apparatus and components to be used at TMI Unit 2 in accordance with the TMI-2 License, the radioactive apparatus and components that may be moved from CCEC to TMI Unit 2 under this provision shall be limited to: (1) outage-related items (such as contaminated scaffolding, tools, protective clothing, portable shielding and decontamination equipment); and (2) other equipment belonging to CCEC when storage of such equipment at TMI-2 is deemed necessary for load handling or contamination control considerations;
- (4) Constellation Energy Generation, LLC, pursuant to the Act and 10 CFR Parts 30 and 70, to possess at the CCEC or TMI Unit 2 site, but not separate, such byproduct and special nuclear materials that were produced by the operation of either unit. Radioactive waste may be moved from TMI Unit 2 to CCEC under this provision for collection, processing (including decontamination), packaging, and temporary storage prior to disposal. Radioactive waste that may be moved from CCEC to TMI Unit 2 under this provision shall be limited to: (1) dry active waste (DAW) temporarily moved to TMI Unit 2 during waste collection activities, and (2) contaminated liquid contained in shared system piping and tanks. Radioactive waste that may be moved from CCEC to TMI Unit 2 under this provision shall not include spent fuel, spent resins, filter sludge, evaporator bottoms, contaminated oil, or contaminated liquid filters.

The storage of radioactive materials or radwaste generated at TMI Unit 2 and stored at CCEC shall not result in a source term that, if released, would exceed that previously analyzed in the UFSAR in terms of off-site dose consequences.

The storage of radioactive materials or radwaste generated at CCEC and stored at TMI Unit 2 shall not result in a source term that, if released, would exceed that previously analyzed in the PDMS SAR for TMI Unit 2 in terms of off-site dose consequences.

- c. This renewed license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations 10 CFR Chapter I: Part 20, Section 30.34 of Part 30, Section 40.41 of Part 40, Section 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70; 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 conditions specified or incorporated below:
 - (1) DELETED

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 306, are hereby incorporated in the license. Constellation Energy Generation, LLC shall maintain the facility in accordance with the Permanently Defueled Technical Specifications (PDTs).

(3) Physical Protection

Constellation Energy, 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 10 CFR 72.212(b)(9) and the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The combined set of plans,¹ submitted by letter dated April 29, 2021 (ML21145A183), as supplemented on May 6, 2022 (ML22126A140) and May 26, 2022 (ML22146A349 (nonpublic)) is titled: "Three Mile Island Nuclear Station Independent Spent Fuel Storage Installation Security Plan, Training and Qualification Plan, and Safeguards Contingency Plan, Revision 0." This 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

(10) Sale and License Transfer Conditions

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.

5.0 DESIGN FEATURES

5.1 SITE

Specification

- 5.1.1 The description of the Crane Clean Energy Center 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.



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SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 306 TO

RENEWED FACILITY LICENSE NO. DPR-50

CONSTELLATION ENERGY GENERATION, LLC

CHRISTOPHER M. CRANE CLEAN ENERGY CENTER

DOCKET NO. 50-289

1.0 INTRODUCTION

By application to the U.S. Nuclear Regulatory Commission (NRC, the Commission) dated January 13, 2025 (Agencywide Documents Access and Management System Accession No. ML25013A311), Constellation Energy Generation, LLC (CEG, the licensee) requested changes to Renewed Facility License (RFL) No. DPR-50 and its appendix, the Permanently Defueled Technical Specifications (PDTS), for Three Mile Island Nuclear Station, Unit 1 (the facility). Specifically, this license amendment request (LAR) would amend the RFL and the PDTS to reflect a change in the name of the facility from "Three Mile Island Nuclear Station, Unit 1" to "Christopher M. Crane Clean Energy Center" by replacing instances in the RFL and the PDTS of the name of the facility with either "Christopher M. Crane Clean Energy Center," "Crane Clean Energy Center," or "CCEC," as appropriate.

2.0 REGULATORY EVALUATION

The NRC's regulation at Title 10 of the *Code of Federal Regulations* (10 CFR) Section 50.90, "Application for amendment of license, construction permit, or early site permit," states that whenever a holder of a license desires to amend the license, application for an amendment must be filed with the Commission fully describing the changes desired. The NRC's regulation at 10 CFR 50.92(a) states that determinations on whether to issue an applied-for license amendment are guided by the considerations that govern the issuance of initial licenses to the extent applicable and appropriate. These considerations include, as stated in 10 CFR 50.40, "Common standards," how reasonable assurance is provided that the applicant will comply with the NRC's regulations and that the health and safety of the public will not be endangered, as well as that the issuance of the license will not be inimical to the common defense and security. Similar requirements are at 10 CFR 50.57, "Issuance of operating license."

3.0 TECHNICAL EVALUATION

The NRC staff reviewed the licensee's LAR. The LAR requests to amend the RFL and the PDTS to reflect a change in the name of the facility from "Three Mile Island Nuclear Station,

Unit 1” to “Christopher M. Crane Clean Energy Center.” If the LAR is approved, then this name change would also be reflected in other facility documents, such as the updated final safety analysis report. This LAR does not request, nor would it authorize, any physical changes to the facility. CEG has previously publicly communicated that it plans to request approval from the NRC to restart the facility. This LAR does not request, nor would it authorize, restart of the facility. The NRC staff noted that there is no change in the financial responsibility for the facility or funds to support the facility. There is also no associated direct or indirect license transfer because CEG remains the same legal entity and continues to be the licensed owner and operator of the facility. Specifically, the licensee stated that:

[T]here is no change in the ownership, state of incorporation, registered agent, registered office, directors, officers, rights or liabilities of the corporation, nor is there a change, in the function of the corporation or the way in which it does business. The corporation’s financial responsibility for CCEC and its sources of funds to support the facility will remain the same as they were and are for [Three Mile Island Nuclear Station, Unit 1].

The licensee also stated that the change in the facility’s name does not impact the ability of the licensee to comply with any of its obligations or responsibilities under the facility license and the NRC’s regulations. Based on the above, the NRC staff finds that the proposed amendment is editorial/administrative in nature and will not result in any substantive changes to the facility license or physical changes to the facility. Accordingly, upon the granting of the LAR, there would continue to be reasonable assurance that the activities authorized by the facility license can be conducted without endangering the health and safety of the public and that such activities will be conducted in compliance with the NRC’s regulations and will not be inimical to the common defense and security. Therefore, the NRC staff concludes that the LAR is acceptable.

4.0 STATE CONSULTATION

In accordance with the Commission’s regulations, the Commonwealth of Pennsylvania official was notified of the proposed issuance of the amendment on April 9, 2025. The Commonwealth official had no comments.

5.0 ENVIRONMENTAL CONSIDERATION

The amendment makes editorial, corrective, or other minor revisions to the license. The Commission previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (90 FR 9741). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

6.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by the activities authorized by the license, as amended, (2) there is reasonable assurance that such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: B. Ballard, NRR

Date: May 13, 2025

SUBJECT: THREE MILE ISLAND NUCLEAR STATION, UNIT 1 – ISSUANCE OF AMENDMENT NO. 306 RE: FACILITY NAME CHANGE FROM THREE MILE ISLAND NUCLEAR STATION, UNIT 1 TO CHRISTOPHER M. CRANE CLEAN ENERGY CENTER (EPID L-2025-LLA-0008) DATED MAY 13, 2025

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