

Dominion Nuclear Connecticut, Inc.
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June 15, 2017

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Serial Nos. 17-225
NRA/WDC R1
Docket Nos. 50-245/336/423
License Nos. DPR-21/65
NPF-49

DOMINION NUCLEAR CONNECTICUT, INC.
MILLSTONE POWER STATION UNITS 1, 2 AND 3
LICENSE AMENDMENT REQUEST TO REVISE THE COMPANY NAME

In a letter dated May 10, 2017 (Serial No. 17-197) Virginia Electric and Power Company, Dominion Nuclear Connecticut, Inc. (DNC) and Dominion Energy Kewaunee Inc. notified the NRC of changes to the names of certain parent companies of licensees for the North Anna Power Station Units 1 and 2, Surry Power Station Units 1 and 2, Millstone Power Station Units 1, 2 and 3, Kewaunee Power Station, and the independent spent fuel storage installations (ISFSI) at each of these stations. Specifically with respect to this amendment request, the letter provided notification that DNC would be changing its name to Dominion Energy Nuclear Connecticut, Inc. (DENC) and that DNC would be requesting license amendments to reflect this name change.

In accordance with the provisions of 10 CFR 50.90, DNC requests amendments to Facility Operating License DPR-21 for Millstone Power Station Unit 1, Facility Operating License DPR-65 for Millstone Power Station Unit 2, and to Facility Operating License NPF-49 for Millstone Power Station Unit 3 to reflect the change in DNC's name. An evaluation of the requested amendments is provided in Attachment 1. Attachments 2-4 provide mark-ups of the license pages showing the changes.

The proposed amendment does not involve a Significant Hazards Consideration under the standards set forth in 10 CFR 50.92. The proposed changes have been reviewed and approved by the Facility Safety Review Committee.

In accordance with 10 CFR 50.91(b), a copy of this license amendment request is being provided to the State of Connecticut.

A001
NRR

Should you have any questions in regard to this submittal, please contact Wanda Craft at (804) 273-4687.

Sincerely,



Mark D. Sartain
Vice President – Nuclear Engineering & Fleet Support
Dominion Energy Nuclear Connecticut, Inc.

COMMONWEALTH OF VIRGINIA
COUNTY OF HENRICO

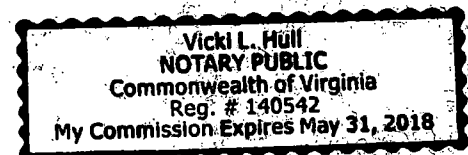
The foregoing document was acknowledged before me, in and for the County and Commonwealth aforesaid, today by Mark D. Sartain, who is Vice President – Nuclear Engineering & Fleet Support of Dominion Energy Nuclear Connecticut, Inc. He has affirmed before me that he is duly authorized to execute and file the foregoing document on behalf of that company, and that the statements in the document are true to the best of his knowledge and belief.

Acknowledged before me this 15TH day of June, 2017.

My Commission Expires: 5-31-18 Vicki L. Hull
Notary Public

Attachments:

1. Evaluation of Proposed License Amendment
2. Marked-Up MPS1 Operating License Pages
3. Marked-Up MPS2 Operating License Pages
4. Marked-up MPS3 Operating License Pages



Commitments made in this letter: None

cc: U.S. Nuclear Regulatory Commission
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Millstone Power Station

Director, Radiation Division
Department of Energy and Environmental Protection
79 Elm Street
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ATTACHMENT 1

EVALUATION OF PROPOSED LICENSE AMENDMENT

**DOMINION NUCLEAR CONNECTICUT, INC.
MILLSTONE POWER STATION UNITS 1, 2 AND 3**

EVALUATION OF PROPOSED LICENSE AMENDMENT

1.0 Summary Description

In accordance with the provisions of 10 CFR 50.90, Dominion Nuclear Connecticut, Inc. (DNC) is submitting a license amendment request to amend Facility Operating License DPR-21 for Millstone Power Station Unit 1 (MPS1), Facility Operating License DPR-65 for Millstone Power Station Unit 2 (MPS2), and Facility Operating License NPF-49 for Millstone Power Station Unit 3 (MPS3). The amendments would revise the licenses to change the name of Dominion Nuclear Connecticut, Inc. to Dominion Energy Nuclear Connecticut, Inc.

2.0 Description of the Proposed Change

The proposed license amendments would replace "Dominion Nuclear Connecticut, Inc." with "Dominion Energy Nuclear Connecticut, Inc." where appropriate in the licenses.

References to Dominion Nuclear Connecticut, Inc. or to DNC in the Facility Operating Licenses relating to the license transfer that occurred on March 31, 2001 are marked with an asterisk to indicate that on May 12, 2017 the name "Dominion Nuclear Connecticut, Inc." was changed to "Dominion Energy Nuclear Connecticut, Inc." Other references to Dominion Nuclear Connecticut, Inc. or DNC contained in the Facility Operating Licenses, including the cover page of the Environmental Protection Plan in Appendix B (MPS3) and Design Features page (MPS1, MPS2 and MPS3), have been changed to the new name "Dominion Energy Nuclear Connecticut, Inc." or "DENC."

Additionally, references to Dominion Resources, Inc. have been changed to "Dominion Energy, Inc." On May 10, 2017, the name "Dominion Resources, Inc." was changed to "Dominion Energy, Inc."

A mark-up of the proposed changes to the MPS1, MPS2 and MPS3 licenses, including proposed changes to the Appendix B cover page and Design Features pages, are provided in Attachments 2, 3, and 4 respectively.

3.0 Background

In connection with a corporate rebranding, Dominion Resources, Inc. (DNC's ultimate parent) is changing its name to Dominion Energy Inc., and a number of subsidiaries are also changing their names to conform to the "Dominion Energy" brand.

As part of this corporate rebranding, DNC is changing its name to Dominion Energy Nuclear Connecticut, Inc. (DENC). This is a name change only. DNC's corporate existence will continue uninterrupted and all of its legal characteristics will remain the

same. The name change does not involve any change to DNC's ownership, management (including officers and directors), organization, operation, obligations; nor is there any change in the functions of DNC, or the way it does business. Therefore, the amendments are purely administrative, and the name change does not constitute any transfer of the licenses that would require NRC consent under 10 CFR 50.80.

The name change does not affect DNC's financial qualifications or decommissioning funding assurance, or otherwise impact DNC's ability to comply with any of its obligations or responsibilities under the Facility Operating Licenses. The proposed amendments do not alter any technical content of the licenses or have any affect effect on the design, function, or operation of plant systems, structures or components or on the current licensing basis of the units. Based on these considerations, (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

4.0 No Significant Hazards Consideration

According to 10 CFR 50.92(c), a proposed amendment to an operating license involves no significant hazards consideration if operation of the facility in accordance with the proposed amendment would not:

1. Involve a significant increase in the probability or consequences of an accident previously evaluated; or
2. Create the possibility of a new or different kind of accident from any accident previously evaluated; or
3. Involve a significant reduction in a margin of safety.

In support of this determination, an evaluation of each of the three criteria set forth in 10 CFR 50.92(c) is provided below regarding the proposed license amendments.

Criterion 1

Does the proposed amendment involve a significant increase in the probability or consequences of an accident previously evaluated?

Response: No.

The proposed amendment to each license is administrative in nature. DNC, which will be renamed Dominion Energy Nuclear Connecticut, Inc., will remain the licensee authorized to operate and possess the units, and its functions, powers, resources and management will not change. The proposed changes do not adversely affect accident initiators or precursors, and do not alter the design assumptions, conditions, or

configuration of the plant or the manner in which the plant is operated and maintained. The ability of structures, systems, and components to perform their intended safety functions is not altered or prevented by the proposed changes, and the assumptions used in determining the radiological consequences of previously evaluated accidents are not affected.

Therefore, the proposed changes do not involve a significant increase in the probability or consequences of an accident previously evaluated.

Criterion 2

Does the proposed amendment create the possibility of a new or different kind of accident from any accident previously evaluated?

Response: No.

The proposed amendment to each license is purely administrative in nature. The functions of the licensee will not change. These changes do not involve any physical alteration of the plant (i.e., no new or different type of equipment will be installed), and installed equipment is not being operated in a new or different manner. Thus, no new failure modes are introduced. Therefore, the proposed changes do not create the possibility of a new or different kind of accident from any accident previously evaluated.

Criterion 3

Does the proposed amendment involve a significant reduction in a margin of safety?

Response: No

The proposed amendment to each license is administrative in nature. DNC, which will be renamed Dominion Energy Nuclear Connecticut, Inc., will remain the licensee authorized to operate and possess the units, and its functions will not change. The proposed changes do not alter the manner in which safety limits, limiting safety system settings, or limiting conditions for operation are determined. There are no changes to setpoints at which protective actions are initiated, and the operability requirements for equipment assumed to operate for accident mitigation are not affected. Therefore, the proposed changes do not involve a significant reduction in a margin of safety.

Conclusion

Based upon evaluation of these criteria, DNC concludes that the proposed amendment presents no significant hazards under the standards set forth in 10 C.F.R. 50.92(c) and, accordingly, a finding of "no significant hazards consideration" is justified.

5.0 Environmental Consideration

The requested license amendments are administrative in nature and limited to changing the name of a licensee. Accordingly, the amendments meet the categorical exclusion in 10 C.F.R. 51.22(c)(10)(iii). Therefore, pursuant to 10 C.F.R. 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the requested amendments.

6.0 References

None

ATTACHMENT 2

MARKED-UP MPS1 LICENSE PAGES

**DOMINION NUCLEAR CONNECTICUT, INC.
MILLSTONE POWER STATION UNIT 1**



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

Energy

DOMINION NUCLEAR CONNECTICUT, INC.

(MILLSTONE POWER STATION, UNIT-1)

DOCKET NO. 50-245

FACILITY OPERATING LICENSE

License No. DPR-21

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for an operating license filed by the applicant complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the rules and regulations of the Commission, as 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 decommissioned in conformity with the provisions of the Act, and the rules and regulations of the Commission;
 - D. Deleted.
 - E. Dominion Nuclear Connecticut, Inc. (the licensee) is technically qualified to engage in the activities authorized by this operating license, in accordance with the rules and regulations of the Commission;
 - F. The licensee has furnished proof of financial protection that satisfies the requirements of 10 CFR Part 140;
 - G. The issuance of this license will not be inimical to the common defense and security or to the health and safety of the public; and
 - H. The issuance of this license is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied; and
 - I. Deleted.

2. Provisional Operating License No. DPR-21, dated October 7, 1970, as amended, was superseded in its entirety by Facility Operating License No. DPR-21 issued to Northeast Nuclear Energy Company and transferred to Dominion Nuclear Connecticut, Inc. on March 31, 2001. It applies to the permanently defueled condition as follows:

*

- A. This license applies to the Millstone Power Station, Unit 1, a single cycle, boiling light-water reactor, and electric generating equipment (the facility). The facility is located on the licensee's site in Waterford, Connecticut, and is described in the license application, as amended, and the Safety Analysis Report, as supplemented and amended (herein the application).
- B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses Dominion Nuclear Connecticut, Inc.:
- Energy
- (1) Pursuant to Section 104b of the Atomic Energy Act of 1954, as amended (the Act), and 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities," to possess, the facility at the designated location in Waterford, Connecticut in accordance with the procedures and limitations set forth in this license;
 - (2) Pursuant to the Act and 10 CFR Part 70, "Domestic Licensing of Special Nuclear Material," to possess at any time special nuclear material that was used as reactor fuel in accordance with the limitations for storage as described in the Safety Analysis Report, as supplemented and amended.
 - (3) Pursuant to the Act and 10 CFR Parts 30, 40 and 70 to receive, possess, and use at any time sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required and possess any byproduct, source and special nuclear material as sealed neutron sources that was used for reactor startup; and
 - (4) Pursuant to the Act and 10 CFR Parts 30 and 70, to possess, but not to separate, such byproduct and special nuclear material as may be produced by operation of the facility.
- C. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Part 20, Section 30.34 of Part 30, Section 40.41 of Part 40, Sections 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70; and is subject to all applicable provisions of the Act and rules, regulations and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified below:
- (1) Deleted.

Amendment No. 498, 499, 440

* On May 12, 2017, the name "Dominion Nuclear Connecticut, Inc." changed to "Dominion Energy Nuclear Connecticut, Inc."

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 117, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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(3) Deleted.

(4) Physical Protection

The licensee shall fully implement and maintain in effect all provisions of the Commission-approved physical security, guard 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 to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The plans, which may contain Safeguards Information protected under 10 CFR 73.21, are entitled: "Millstone Power Station Physical Security Plan," with revisions submitted through March 29, 1988; "Millstone Power Station Suitability, Training and Qualification Plan," with revisions submitted through July 21, 1986; and "Millstone Power Station Safeguards Contingency Plan," with revisions submitted through October 30, 1985. Changes made in accordance with 10 CFR 73.55 shall be implemented in accordance with the schedule set forth therein.

(5) On the closing date of the transfer of MP1 to DNC, DNC shall: 1) obtain from the Selling Owners of MPI the decommissioning trust fund for MP1 in an amount no less than \$268,300,000; and 2) receive a parent company guarantee pursuant to 10 CFR 50.75(e)(1)(iii)(B) (to be updated annually as required under 10 CFR 50.75(f)(1) and 50.82(a)(8)(iv), unless otherwise approved by the NRC) in an amount which, when combined with the decommissioning trust fund for MP1, equals a total of the site-specific decommissioning funding cost as of the closing date of the transfer as estimated (in year 2000 dollars) in accordance with 10 CFR 50.82 (including the use of a 2 percent annual real rate of return as provided in 10 CFR 50.75(e)(1)(i)).

* []

(6) The decommissioning trust agreement for Millstone, Unit No. 1 at the time the transfer of the unit to Dominion Nuclear Connecticut, Inc. is effected and thereafter, is subject to the following:

* []

(a) The decommissioning trust agreement must be in a form acceptable to the NRC.

* On May 12, 2017, the name "Dominion Nuclear Connecticut, Inc." changed to "Dominion Energy Nuclear Connecticut, Inc."

Energy

- (b) With respect to the decommissioning trust fund, investments in the securities or other obligations of Dominion Resources, Inc. or its affiliates or subsidiaries, successors, or assigns are prohibited. Except for investments tied to market indexes or other non-nuclear-sector mutual funds, investments in any entity owning one or more nuclear power plants are prohibited.
- (c) The decommissioning trust agreement for Millstone, Unit No. 1, must provide that no disbursements or payments from the trust, other than for ordinary administrative expenses, shall be made by the trustee until the trustee has first given the Director of the Office of Nuclear Reactor Regulation 30-days prior written notice of payment. The decommissioning trust agreement shall further contain a provision that no disbursements or payments from the trust shall be made if the trustee receives prior written notice of objection from the NRC.
- (d) The decommissioning trust agreement must provide that the agreement can not be amended in any material respect without 30 days prior written notification to the Director of the Office of Nuclear Reactor Regulation.
- (e) The appropriate section of the decommissioning trust agreement shall state that the trustee, investment advisor, or anyone else directing the investments made in the trusts shall adhere to a "prudent investor" standard, as specified in 18 CFR 35.32(a)(3) of the Federal Energy Regulatory Commission's regulations.

Energy

- (7) Dominion Nuclear Connecticut, Inc. shall take all necessary steps to ensure that the decommissioning trust is maintained in accordance with the application for approval of the transfer of the Millstone, Unit No. 1, license and the requirements of the Order approving the transfer, and consistent with the safety evaluation supporting the Order.

- 3. On July 21, 1998, Northeast Nuclear Energy Company (NNECO) certified that operations at Millstone Unit No. 1 would permanently cease and that the fuel had been permanently removed from the reactor vessel in accordance with 10 CFR 50.82(a)(1)(i) and 10 CFR 50.82(a)(1)(ii). As a result, the 10CFR50 license no longer authorizes operation of the reactor, or the emplacement or retention of fuel in the reactor vessel.

This license is effective as of the date of issuance and authorizes ownership and possession of Millstone Unit No. 1 until the Commission notifies the licensee in writing that the license is terminated. The licensee shall:

- C. Take actions necessary to decommission the plant and continue to maintain the facility, including, where applicable, the storage, control and maintenance of the spent fuel, in a safe condition; and

4.0 DESIGN FEATURES

- 4.1 Site Location The Unit 1 Reactor Building is located on the site at Millstone Point in Waterford, Connecticut. The nearest site boundary on land is 2063 feet northeast of the reactor building (1627 feet northeast of the elevated stack), which is the minimum distance to the boundary of the exclusion area as described in 10 CFR 100.3. No part of the site that is closer to the reactor building than 2063 feet shall be sold or leased except to Dominion Nuclear Connecticut, Inc. or its corporate affiliates for use in conjunction with normal utility operations.

4.2 Fuel Storage

Energy

4.2.1 DELETED

- 4.2.2 The K_{eff} of the spent fuel storage pool shall be less than or equal to 0.95. This K_{eff} value is satisfied with fuel assemblies having a maximum k-infinity of 1.24 in the normal reactor configuration at cold conditions, and an average U-235 enrichment of 3.8 weight percent or less, and with no fuel allowed in the storage locations shown in Figure 4.1.

- 4.2.3 The number of fuel assemblies stored in the spent fuel storage pool shall not exceed 2959 bundles.

ATTACHMENT 3

MARKED-UP MPS2 LICENSE PAGES

**DOMINION NUCLEAR CONNECTICUT, INC.
MILLSTONE POWER STATION UNIT 2**



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-001

Energy

DOMINION NUCLEAR CONNECTICUT, INC.

DOCKET NO. 50-336

(MILLSTONE POWER STATION, UNIT NO. 2)

RENEWED FACILITY OPERATING LICENSE

Renewed License No. DPR-65

1. The U.S. Nuclear Regulatory Commission (the Commission) having previously made the findings set forth in License No. DPR-65 issued on September 26, 1975 has now found that:

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Energy

- A. The application to renew License DPR-65 filed by Dominion Nuclear Connecticut, Inc. (DNC), 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 Part 54 Chapter 1, and all required notifications to other agencies or bodies have been duly made;
- B. Construction of the Millstone Power Station, Unit 2, (facility) has been substantially completed in conformity with Construction Permit No. CPPR-76 and the application, as amended, the provisions of the Act and the rules and regulations of the Commission;
- C. Actions have been identified and have been or will be taken with respect to (1) managing the effects of aging during the period of extended operation on the functionality of structures and components that have been identified to require review under 10 CFR 54.21(a)(1), and (2) time-limited aging analyses that have been identified to require review under 10 CFR 54.21(c), such that there is reasonable assurance that the activities authorized by the renewed license will continue to be conducted in accordance with the current licensing basis, as defined in 10 CFR 54.3, for the facility, and that any changes made to the facility's current licensing basis in order to comply with 10 CFR 54.29(a) are in accord with the Act and the Commission's regulations;
- D. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission;
- E. There is reasonable assurance: (i) that the activities authorized by this renewed operating license can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission;

- F. The licensee 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;
- G. The licensee has satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;
- H. The issuance of this renewed operating license will not be inimical to the common defense and security or to the health and safety of the public;
- I. After weighing the environmental, economic, technical, and other benefits of the facility against environmental and other costs and considering available alternatives, the issuance of this Renewed Facility Operating License No. DPR-65, subject to the conditions for protection of the environment set forth herein, is in accordance with 10 CFR Part 51 (formerly Appendix D to Part 50), of the Commission's regulations and all applicable requirements have been satisfied; and
- J. The receipt, possession, and use of source, byproduct, and special nuclear material as authorized by this renewed license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40, and 70, including 10 CFR Sections 30.33, 40.32, 70.23, and 70.31.

2. On the basis of the foregoing findings regarding this facility, Facility Operating License No. DPR-65, issued on September 26, 1975, is superceded by Renewed Facility Operating License No. DPR-65, which is hereby issued to Dominion Nuclear Connecticut, Inc. to read as follows:

DENC

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- A. This renewed operating license applies to the Millstone Power Station (MPS), Unit No. 2, a pressurized water nuclear reactor and associated equipment (the facility), owned by DENC. The facility is located on the north shore of Long Island Sound and on the east side of Niantic Bay in the Town of Waterford, Connecticut, about three miles from New London, Connecticut, and is described in the "Final Safety Analysis Report" as supplemented and amended (Amendments 13 through 42), and the Environmental Report as amended (Amendments 1 through 5).
- B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses Dominion Nuclear Connecticut, Inc.:
 - (1) Pursuant to Section 104b of the Act and 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities," to possess, use, and operate the facility at the designated location on the north shore of Long Island Sound and on the east side of Niantic Bay, in the Town of Waterford, Connecticut, about three miles from New London,

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DENC

Energy

(6) DNG shall not take any action that would cause ~~Dominion Resources, Inc. (DRI)~~ or its parent companies to void, cancel, or diminish DNG's commitment to have sufficient funds available to fund an extended plant shutdown as represented in the application for approval of the transfer of ~~the licenses~~ for MPS Unit No. 2.

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(7) Immediately after the transfer of MPS Unit No. 2 to DNG, the amount in the decommissioning trust for MPS Unit No. 2 must, with respect to the interest in MPS Unit No. 2 that DNG would then hold, be at a level no less than the formula amount under 10 CFR 50.75.

(8) The decommissioning trust agreement for MPS Unit No. 2 at the time the transfer of the unit to DNG is effected and thereafter is subject to the following:

- (a) The decommissioning trust agreement must be in a form acceptable to the NRC.
- (b) With respect to the decommissioning trust fund, investments in the securities or other obligations of DRI or its affiliates or subsidiaries, successors, or assigns are prohibited. Except for investments tied to market indexes or other non-nuclear-sector mutual funds, investments in any entity owning one or more nuclear power plants are prohibited.
- (c) The decommissioning trust agreement for MPS Unit No. 2 must provide that no disbursements or payments from the trust, other than for ordinary administrative expenses, shall be made by the trustee until the trustee has first given the Director of the Office of Nuclear Reactor Regulation 30-days prior written notice of payment. The decommissioning trust agreement shall further contain a provision that no disbursements or payments from the trust shall be made if the trustee receives prior written notice of objection from the NRC.
- (d) The decommissioning trust agreement must provide that the agreement can not be amended in any material respect without 30 days prior written notification to the Director of the Office of Nuclear Reactor Regulation.
- (e) The appropriate section of the decommissioning trust agreement shall state that the trustee, investment advisor, or anyone else directing the investments made in the trusts shall adhere to a "prudent investor" standard, as specified in 18 CFR 35.32(a)(3) of the Federal Energy Regulatory Commission's regulations.

Dominion Energy, Inc.

* On May 12, 2017, the name "Dominion Nuclear Connecticut, Inc." changed to "Dominion Energy Nuclear Connecticut, Inc."

- (9) DNG shall take all necessary steps to ensure that the decommissioning trust is maintained in accordance with the application for approval of the transfer of the MPS Unit No. 2 license and the requirements of the Order approving the transfer, and consistent with the safety evaluation supporting the Order.
- (10) The Final Safety Analysis Report (FSAR) supplement, as revised, submitted pursuant to 10 CFR 54.21(d), shall be included in the next scheduled update to the FSAR required by 10 CFR 50.71(e)(4) following the issuance of this renewed operating license. Until that update is complete, DNG may make changes to the programs and activities described in the supplement without prior Commission approval, provided that DNG evaluates such changes pursuant to the criteria set forth in 10 CFR 50.59 and otherwise complies with the requirements in that section.
- (11) The FSAR supplement, as revised, describes certain future activities to be completed prior to the period of extended operation. DNG shall complete these activities no later than July 31, 2015, and shall notify the NRC in writing when implementation of these activities is complete and can be verified by NRC inspection.
- (12) All capsules in the reactor vessel that are removed and tested must meet the test procedures and reporting requirements of American Society for Testing and Materials (ASTM) E 185-82 to the extent practicable for the configuration of the specimens in the capsule. Any changes to the capsule withdrawal schedule, including spare capsules, must be approved by the NRC prior to implementation. All capsules placed in storage must be maintained for future insertion. Any changes to storage requirements must be approved by the NRC, as required by 10 CFR Part 50, Appendix H.
- (13) Mitigation Strategy License Condition
- The licensee shall develop and maintain strategies for addressing large fires and explosions and that include the following key areas:
- (a) Fire fighting response strategy with the following elements:
1. Pre-defined coordinated fire response strategy and guidance
 2. Assessment of mutual aid fire fighting assets
 3. Designated staging areas for equipment and materials
 4. Command and control
 5. Training of response personnel

DENG

5.0 DESIGN FEATURES

5.1 SITE LOCATION

The Unit 2 Containment Building is located on the site at Millstone Point in Waterford, Connecticut. The nearest SITE BOUNDARY on land is 2034 feet northeast of the containment building wall (1627 feet northeast of the elevated stack), which is the minimum distance to the boundary of the exclusion area as described in 10 CFR 100.3. No part of the site that is closer than these distances shall be sold or leased except to Dominion Nuclear Connecticut, Inc. or its corporate affiliates for use in conjunction with normal utility operations.

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5.2 DELETED

Energy

ATTACHMENT 4

MARKED-UP MPS3 LICENSE PAGES

**DOMINION NUCLEAR CONNECTICUT, INC.
MILLSTONE POWER STATION UNIT 3**



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

Energy

DOMINION NUCLEAR CONNECTICUT, INC., ET AL.⁽¹⁾

DOCKET NO. 50-423

(MILLSTONE POWER STATION, UNIT NO. 3)

RENEWED FACILITY OPERATING LICENSE

RENEWED LICENSE NO. NPF-49

Energy

1. The U.S. Nuclear Regulatory Commission (the Commission) having previously made the findings set forth in License No. NPF-49 issued on January 31, 1986 has now found that:

A. The application to renew License NPF-49 filed by Dominion Nuclear Connecticut, Inc. (DNC), 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;

DENC

B. Construction of the Millstone Power Station, Unit No. 3 (the facility) has been substantially completed in conformity with Construction Permit No. CPPR-113 and the application, as amended, the provisions of the Act, and the regulations of the Commission;

C. Actions have been identified and have been or will be taken with respect to: (1) managing the effects of aging during the period of extended operation on the functionality of structures and components that have been identified to require review under 10 CFR 54.21(a)(1), and (2) time-limited aging analyses that have been identified to require review under 10 CFR 54.21(c), such that there is reasonable assurance that the activities authorized by the renewed license will continue to be conducted in accordance with the current licensing basis, as defined in 10 CFR 54.3, for the facility, and that any changes made to the facility's current licensing basis in order to comply with 10 CFR 54.29(a) are in accordance with the Act and the Commission's regulations;

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(1) Dominion Nuclear Connecticut, Inc., et al. (the licensees) consists of Dominion Nuclear Connecticut, Inc., Green Mountain Power Corporation and Massachusetts Municipal Wholesale Electric Company. Dominion Nuclear Connecticut, Inc. is authorized to act as the agent and representative for Green Mountain Power Corporation and Massachusetts Municipal Wholesale Electric Company and has exclusive responsibility and control over the physical operation and maintenance of the facility.

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- D. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the regulations of the Commission (except as exempted from compliance, see Section 2.D below);
- E. There is reasonable assurance: (i) that the activities authorized by this renewed operating license 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, (except as exempted from compliance, see Section 2.D below);
- F. **DENC** → DNG is technically qualified to engage in the activities authorized by this renewed license in accordance with the Commission's regulations set forth in 10 CFR Chapter 1;
- G. The licensees have satisfied the applicable provisions of 10 CFR Part 140 "Financial Protection Requirements and Indemnity Agreements" of the Commission's regulations;
- H. 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;
- I. After weighing the environmental, economic, technical and other benefits of the facility against environmental and other costs and considering available alternatives, the issuance of Renewed Facility Operating License No. NPF-49, subject to the conditions for protection of the environment set forth in the Environmental Protection Plan attached as Appendix B, is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied; and
- J. The receipt, possession, and use of source, byproduct and special nuclear material as authorized by this renewed license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40, and 70.

2. On the basis of the foregoing findings regarding this facility, Facility Operating License No. NPF-49, issued on January 31, 1986, is superceded by Renewed Facility Operating License No. NPF-49, which is hereby issued to Dominion Nuclear Connecticut, Inc. to read as follows:

↑ **Energy**

- A. This renewed operating license applies to the Millstone Power Station (MPS), Unit No. 3, a pressurized water nuclear reactor and associated equipment (the facility), owned by the licensees. The facility is located in Waterford Township, New London County, Connecticut on the north shore of Long Island Sound, and is described in the licensees' "Final Safety Analysis Report," as supplemented and amended, and in the licensees' Environmental Report, as supplemented and amended.

B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses;

- (1) DNG, pursuant to Section 103 of the Act and 10 CFR Part 50, to possess, use and operate the facility at the designated location in New London County, Connecticut in accordance with the procedures and limitations set forth in this license; Green Mountain Power Corporation and Massachusetts Municipal Wholesale Electric Company, pursuant to the Act and 10 CFR Part 50, to possess the facility at the designated location in New London County, Connecticut in accordance with the procedures and limitations set forth in this renewed operating license;
- (2) DNG, pursuant to the Act and 10 CFR Part 70, to receive, possess and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as supplemented and amended;
- (3) DNG, pursuant to the Act and 10 CFR Parts 30, 40, and 70 to receive, possess, and use at any time any byproduct, source, and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
- (4) DNG, pursuant to the Act and 10 CFR Parts 30, 40, and 70 to receive, possess, and use in amounts as required any byproduct, source, or special nuclear material without restriction to chemical or physical form for sample analysis or instrument calibration or associated with radioactive apparatus or components; and
- (5) DNG, pursuant to the Act and 10 CFR Parts 30, 40, and 70 to possess, but not separate, such byproducts and special nuclear materials as may be produced by the operations of the facility.

DENC

C. This renewed operating license shall be deemed to contain and is subject to the conditions specified in the Commission's regulations set forth in 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 conditions specified or incorporated below:

(1) Maximum Power Level

DENC → DNG is authorized to operate the facility at reactor core power levels not in excess of 3650 megawatts thermal (100 percent rated power) in accordance with the conditions specified herein.

(2) Technical Specifications

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The Technical Specifications contained in Appendix A, revised through Amendment No. 270 and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto are hereby incorporated into the license. DNG shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

Energy

(3) DNG shall not take any action that would cause Dominion Resources, Inc. (DRI) or its parent companies to void, cancel, or diminish DNG's commitment to have sufficient funds available to fund an extended plant shutdown as represented in the application for approval of the transfer of the licenses for MPS Unit No. 3.

(4) Immediately after the transfer of interests in MPS Unit No. 3 to DNC, the amount in the decommissioning trust fund for MPS Unit No. 3 must, with respect to the interest in MPS Unit No. 3, that DNC would then hold, be at a level no less than the formula amount under 10 CFR 50.75.

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(5) The decommissioning trust agreement for MPS Unit No. 3 at the time the transfer of the unit to DNC is effected and thereafter is subject to the following:

(a) The decommissioning trust agreement must be in a form acceptable to the NRC.

Energy

(b) With respect to the decommissioning trust fund, investments in the securities or other obligations of Dominion Resources, Inc. or its affiliates or subsidiaries, successors, or assigns are prohibited. Except for investments tied to market indexes or other non-nuclear-sector mutual funds, investments in any entity owning one or more nuclear power plants are prohibited.

(c) The decommissioning trust agreement for MPS Unit No. 3 must provide that no disbursements or payments from the trust, other than for ordinary administrative expenses, shall be made by the trustee until the trustee has first given the Director of the Office of Nuclear Reactor Regulation 30-days prior written notice of payment. The decommissioning trust agreement shall further contain a provision that no disbursements or payments from the trust shall be made if the trustee receives prior written notice of objection from the NRC.

(d) The decommissioning trust agreement must provide that the agreement can not be amended in any material respect without 30 days prior written notification to the Director of the Office of Nuclear Reactor Regulation.

* On May 12, 2017 the name "Dominion Nuclear Connecticut, Inc." changed to "Dominion Energy Nuclear Connecticut, Inc."

(e) The appropriate section of the decommissioning trust agreement shall state that the trustee, investment advisor, or anyone else directing the investments made in the trusts shall adhere to a "prudent investor" standard, as specified in 18 CFR 35.32(a)(3) of the Federal Energy Regulatory Commission's regulations.

(6) DNG shall take all necessary steps to ensure that the decommissioning trust is maintained in accordance with the application for approval of the transfer of the MPS Unit No. 3 license and the requirements of the Order approving the transfer, and consistent with the safety evaluation supporting the Order.

(7) The Final Safety Analysis Report (FSAR) supplement, as revised, submitted pursuant to 10 CFR 54.21(d), shall be included in the next scheduled update to the FSAR required by 10 CFR 50.71(e)(4) following the issuance of this renewed operating license. Until that update is complete, DNG may make changes to the programs and activities described in the supplement without prior Commission approval, provided that DNG evaluates such changes pursuant to the criteria set forth in 10 CFR 50.59 and otherwise complies with the requirements in that section.

(8) The FSAR supplement, as revised, describes certain future activities to be completed prior to the period of extended operation. DNG shall complete these activities no later than November 25, 2025, and shall notify the NRC in writing when implementation of these activities is complete and can be verified by NRC inspection.

DENG

(9) All capsules in the reactor vessel that are removed and tested must meet the test procedures and reporting requirements of American Society for Testing and Materials (ASTM) E 185-82 to the extent practicable for the configuration of the specimens in the capsule. Any changes to the capsule withdrawal schedule, including spare capsules, must be approved by the NRC prior to implementation. All capsules placed in storage must be maintained for future insertion. Any changes to storage requirements must be approved by the NRC, as required by 10 CFR Part 50, Appendix H.

(10) Mitigation Strategy License Condition

The licensee shall develop and maintain strategies for addressing large fires and explosions and that include the following key areas:

- (a) Fire fighting response strategy with the following elements:
1. Pre-defined coordinated fire response strategy and guidance
 2. Assessment of mutual aid fire fighting assets
 3. Designated staging areas for equipment and materials
 4. Command and control
 5. Training of response personnel

- E. The licensee 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 to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The combined set of plans, submitted by letter dated October 15, 2004, as supplemented by letter dated May 15, 2006, is entitled: "Millstone, North Anna and Surry Power Stations' Security Plan, Training and Qualification Plan, Safeguards Contingency Plan, and Independent Spent Fuel Storage Installation Security Program, Revision 0" The set contains Safeguards Information protected under 10 CFR 73.21.

The licensee shall fully implement and maintain in effect all provisions of the Commission-approved Kewaunee, Millstone, North Anna, and Surry Power Stations Cyber Security Plan (CSP), including changes made pursuant to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The CSP was approved by License Amendment No. 265.

- F. Deleted.
- G. The licensee shall have and maintain financial protection of such type and in such amounts as the Commission shall require in accordance with Section 170 of the Atomic Energy Act of 1954, as amended, to cover public liability claims.
- H. Fire Protection (Section 9.5.1, SER, SSER 2, SSER 4, SSER 5)

DENC

DNC shall implement and maintain in effect all provisions of the approved fire protection program as described in the Final Safety Analysis Report for the facility and as approved in the SER (NUREG-1031) issued July 1985 and Supplements Nos. 2, 4, and 5 issued September 1985, November 1985, and January 1986, respectively, subject to the following provision:

The licensee may make changes to the approved fire protection program without prior approval of the Commission only if those changes would not adversely affect the ability to achieve and maintain safe shutdown in the event of a fire.

- I. This renewed operating license is effective as of its date of issuance and shall expire at midnight on November 25, 2045.

FOR THE NUCLEAR REGULATORY COMMISSION

/ RA /

J. E. Dyer, Director

Attachments: Office of Nuclear Reactor Regulation

- 1. Appendix A - Technical Specifications
- 2. Appendix B - Environmental Protection Plan

Date of Issuance: November 28, 2005

Renewed License No. NPF-49
Amendment No. 243, 264, 265

5.0 DESIGN FEATURES

5.1 SITE LOCATION

The Unit 3 Containment Building is located on the site at Millstone Point in Waterford, Connecticut. The nearest SITE BOUNDARY on land is 1719 feet northeast of the containment building wall (1627 feet northeast of the elevated stack), which is the minimum distance to the boundary of the exclusion area as described in 10 CFR 100.3. No part of the site that is closer than these distances shall be sold or leased except to Dominion Nuclear Connecticut, Inc. or its corporate affiliates for use in conjunction with normal utility operations.

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Energy

5.2 DELETED

March 16, 2006

APPENDIX B

TO FACILITY OPERATING LICENSE NO. NPF-49

MILLSTONE POWER STATION, UNIT 3 Energy

DOMINION  NUCLEAR CONNECTICUT, INC.

DOCKET NO. 50-423

ENVIRONMENTAL PROTECTION PLAN

(NONRADIOLOGICAL)

†

Amendment No. 229