



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

March 5, 2013

Mr. David A. Heacock
President and Chief Nuclear Officer
Dominion Nuclear
Innsbrook Technical Center
5000 Dominion Boulevard
Glen Allen, VA 23060-6711

SUBJECT: MILLSTONE POWER STATION, UNIT NO. 2 - ISSUANCE OF AMENDMENT
RE: ADOPT TSTF-374, "REVISION TO TS 5.5.13 AND ASSOCIATED TS
BASES FOR DIESEL FUEL OIL" (TAC NO. ME8454)

Dear Mr. Heacock:

The Commission has issued the enclosed Amendment No. 313 to Renewed Facility Operating License No. DPR-65 for the Millstone Power Station, Unit No. 2, in response to your application dated April 13, 2012, as supplemented by letter dated May 7, 2012.

The amendment would revise Technical Specification (TS) requirements related to diesel fuel oil testing consistent with NUREG-1432, Rev. 3.1, "Standard Technical Specifications, Combustion Engineering Plants," December 1, 1995, and Nuclear Regulatory Commission approved Technical Specification Task Force (TSTF) TSTF-374, "Revision to TS 5.5.13 and Associated TS Bases for Diesel Fuel Oil," Revision 0.

A copy of the related Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly *Federal Register* notice.

Sincerely,

A handwritten signature in cursive script, appearing to read "James Kim", is positioned above the typed name.

James Kim, Project Manager
Plant Licensing Branch 1-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-336

Enclosures:

1. Amendment No. 313 to DPR-65
2. Safety Evaluation

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

DOMINION NUCLEAR CONNECTICUT, INC.

DOCKET NO. 50-336

MILLSTONE POWER STATION, UNIT NO. 2

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 313
Renewed License No. DPR-65

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by the applicant dated April 13, 2012, as supplemented by letter dated May 7, 2012, 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.

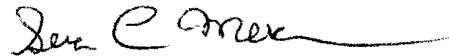
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Renewed Facility Operating License No. DPR-65 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 313, are hereby incorporated in the renewed license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of issuance, and shall be implemented within 120 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Sean C. Meighan, Acting Chief
Plant Licensing Branch I-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Attachment: Changes to the License
and Technical Specifications

Date of Issuance: March 5, 2013

ATTACHMENT TO LICENSE AMENDMENT NO. 313

RENEWED FACILITY OPERATING LICENSE NO. DPR-65

DOCKET NO. 50-336

Replace the following page of the Renewed Facility Operating License with the attached revised page. The revised page is identified by amendment number and contains marginal lines indicating the areas of change.

Remove
Page 3

Insert
Page 3

Replace the following pages of the Appendix A 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
6-29

Insert
6-29

Connecticut, in accordance with the procedures and limitations set forth in this renewed operating license;

- (2) 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) 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) 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 and equipment calibration or associated with radioactive apparatus or components;
- (5) Pursuant to the Act and 10 CFR Parts 30 and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.

C. This renewed operating license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Chapter 1: 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; and is subject to all applicable provisions of the Act and 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

The licensee is authorized to operate the facility at steady-state reactor core power levels not in excess of 2700 megawatts thermal.

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 313, are hereby incorporated in the renewed license. The licensee shall operate the facility in accordance with the Technical Specifications.

Renewed License No. DPR-65
Amendment No.313

ADMINISTRATIVE CONTROLS

6.24 DIESEL FUEL OIL TEST PROGRAM

A diesel fuel oil testing program to implement required testing of both new fuel oil and stored fuel oil shall be established. The program shall include sampling and testing requirements, and acceptance criteria, all in accordance with applicable ASTM Standards. The purpose of the program is to establish the following:

- a. Acceptability of new fuel oil for use prior to addition to storage tanks by determining that the fuel oil has:
 1. An API gravity or an absolute specific gravity within limits,
 2. A flash point and kinematic viscosity within limits for ASTM 2D fuel oil, and
 3. A clear and bright appearance with proper color or a water and sediment content within limits.
- b. Within 31 days following addition of the new fuel oil to storage tanks, verify that the properties of the new fuel oil, other than those addressed in a., above, are within limits for ASTM 2D fuel oil, and
- c. Total particulate concentration of the fuel oil is ≤ 10 mg/L when tested every 92 days.

The provisions of Surveillance Requirements 4.0.2 and 4.0.3 are applicable to the Diesel Fuel Oil Test Program test frequencies.

6.25 PRE-STRESSED CONCRETE CONTAINMENT TENDON SURVEILLANCE PROGRAM

This program provides controls for monitoring any tendon degradation in pre-stressed concrete containments, including effectiveness of its corrosion protection medium, to ensure containment structural integrity. The program shall include baseline measurements prior to initial operations. The Tendon Surveillance Program, inspection frequencies, and acceptance criteria shall be in accordance with Regulatory Guide 1.35, Revision 3, 1989.

The provisions of Surveillance Requirements 4.0.2 and 4.0.3 are applicable to the Tendon Surveillance Program inspection frequencies.

Any abnormal degradation of the containment structure detected during the tests required by the Pre-stressed Concrete Containment Tendon Surveillance Program shall be reported to the NRC within 30 days. The report shall include a description of the tendon condition, the condition of the concrete (especially at tendon anchorages), the inspection procedures, the tolerances on cracking, and the corrective action taken. This Tendon Surveillance Report is an administrative requirement listed in Technical Specifications 6.9.2, "Special Reports."



UNITED STATES
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WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 313

TO RENEWED FACILITY OPERATING LICENSE NO. DPR-65

DOMINION NUCLEAR CONNECTICUT, INC.

MILLSTONE POWER STATION, UNIT NO. 2

DOCKET NO. 50-336

1.0 INTRODUCTION

By letter dated April 13, 2012, (Agencywide Documents Access and Management System (ADAMS) Accession Number ML12110A088), as supplemented by letter dated May 7, 2012 (ML12132A101), Dominion Nuclear Connecticut, Inc. (the licensee) proposed changes to the Technical Specifications (TSs) for Millstone Power Station Unit 2 (MPS2) to adopt Technical Specification Task Force (TSTF)-374, "Revision to TS 5.5.13 and Associated TS Bases for Diesel Fuel Oil."

The proposed changes reflect modification of MPS2 existing diesel fuel oil testing program (TS 6.24), specifically to relocate the references to specific American Society for Testing and Materials (ASTM) standards for fuel oil testing to licensee controlled documents and replace the acceptable criteria of "Water and sediment $\leq 0.05\%$ " with the criteria of "A clear and bright appearance with proper color or a water sediment content within limits."

TSTF-374 relocates references to specific ASTM standards for fuel oil testing to licensee-controlled documents and would add alternate criteria to the "clear and bright" acceptance test for new fuel oil.

The proposed changes are consistent with Section 5.5.13 of NUREG-1431, Revision 3, "Standard Technical Specifications, Westinghouse Plants" (STS), which has incorporated Technical Specification Task Force (TSTF) Improved Standard Technical Specifications Change Traveler 374-A, Revision 0, "Revision to TS 5.5.13 and associated TS Bases for Diesel Fuel Oil."

These changes were described in a Notice of Availability published in the *Federal Register* on April 21, 2006 (71 FR 20735).

The supplemental letter dated May 7, 2012, provided additional information that clarified the application, did not expand the scope of the application as originally noticed, and did not change the Nuclear Regulatory Commission (NRC) staff's original proposed no significant hazards consideration determination as published in the *Federal Register* on June 12, 2012 (77 FR 35072).

2.0 REGULATORY EVALUATION

The onsite electrical power system includes standby power sources, distribution systems, and vital auxiliary supporting systems to supply power to safety-related equipment. Most commercial nuclear power plants use diesel generators as the emergency power source for the safety-related electrical buses. The importance of the diesel generators (or other standby power sources) is reflected in their incorporation into the NRC regulations, TSs, and other regulatory programs, including Appendix B ("Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants") to Part 50 of Title 10 of the *Code of Federal Regulations* (10 CFR Part 50). The NUREG-0800, "Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power Plants," addresses diesel fuel oil and other supporting systems in Section 9.5.4, "Emergency Diesel Engine Fuel Oil Storage and Transfer System Review Responsibilities."

The TSs include requirements for testing diesel fuel oil to ensure that it is of the appropriate grade and that it has not been contaminated (i.e., proper fuel oil quality). The Diesel Fuel Oil Testing Program defined in the TS includes tests for (1) the acceptability of new fuel oil for use prior to addition to the storage tanks; (2) other properties of new fuel oil that are within limits within 31 days following sampling and addition to storage tanks; and (3) total particulate concentration of the fuel oil every 31 days. The current TSs identifies particular ASTM standards and methods of performing these tests. The industry submitted TSTF-374 proposing changes to the STS (NUREGs 1430 - 1434) to provide the flexibility to address future changes in Environmental Protection Agency (EPA) regulations for fuel oil or revisions to the ASTM standards. The TSTF-374-A was reviewed and accepted by the NRC staff and has been incorporated into each of the STS NUREGs. Requirements for testing the diesel fuel oil are maintained, but references to specific ASTM standards are relocated to licensee-controlled documents and an alternative to the "clear and bright" acceptance test for new fuel is added to address changes in EPA requirements.

3.0 TECHNICAL EVALUATION

In adopting TSTF-374, the licensee proposes to remove the reference to specific ASTM standards from the TS Administrative Controls Section 6.24, "Diesel Fuel Oil Testing Program," as it is currently located within MSPs TS Bases, a licensee-controlled document. Although the reference to specific testing standards or methods will no longer reside in MSPs TS and currently in the Bases, the revised TS 6.24 will continue to include acceptance criteria for new and stored diesel fuel oil and refers to "applicable ASTM standards" for sampling and testing requirements.

The specific testing standards or methods are added to the TS Bases Section, which are controlled in accordance with 10 CFR 50.59, "Changes, tests, and experiments," as described in TS 6.23, "Technical Specification (TS) Bases Control Program." The licensee's testing programs for diesel fuel oil are also governed by other regulatory requirements, including Appendix B (Quality Assurance Criteria) to 10 CFR Part 50. While the relocation of selected program details provides the licensee with some flexibility to adopt practices defined in future ASTM standards, the NRC staff finds that the remaining TS, TS Bases Control Program, and other NRC regulations provide appropriate regulatory controls to ensure diesel fuel oil quality will be maintained. The plant-specific adoption of TSTF-374 also includes an alternative to the "clear and bright" test currently required for new fuel oil acceptability. The revised TS would

allow either the "clear and bright" test or a test confirming that the fuel oil has "water and sediment content within limits." This alternative test is better suited for darker colored fuels and is recognized in ASTM standards that have been referenced in NRC-approved amendment requests. The NRC staff finds that the alternative for testing the water and sediment content will maintain or improve the inspection of new fuel oil and therefore finds the change acceptable.

The licensee included in its application the proposed revisions to the TS Bases to reflect the changes to TS 6.24 and to revise the references to the applicable ASTM standards. The changes are consistent with TSTF-374 and will be incorporated into the TS Bases in accordance with TS 6.23.

4.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Connecticut State official was notified of the proposed issuance of the amendment. The State official had no comments.

5.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC staff has determined that the amendment involves no significant increase in amounts, and no significant change in the types of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (77 FR 35072 dated June 12, 2012).

Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). 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 operation in the proposed manner, (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: S. Anderson

Date: March 5, 2013

March 5, 2013

Mr. David A. Heacock
President and Chief Nuclear Officer
Dominion Nuclear
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5000 Dominion Boulevard
Glen Allen, VA 23060-6711

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Sincerely,

/ra/

James Kim, Project Manager
Plant Licensing Branch 1-1
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Office of Nuclear Reactor Regulation

Docket No. 50-336

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*SE Input via memo dated February 20, 2013

NRR-106

OFFICE	LPL1-1/PM	LPL1-1/LA	STSB/BC*	OGC (NLO w/ comments)	LPL1-1/BC(A)	LPLI-1/PM
NAME	JKim	KGoldstein	RElliott*	BHarris	SMeighan	JKim
DATE	2/21/13	2/14/13	2/20/13	2/28/13	3/4/13	3/5/13

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