



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

April 26, 2013

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

SUBJECT: MILLSTONE POWER STATION, UNIT NO. 2 - REQUEST FOR ADDITIONAL
INFORMATION REGARDING SPENT FUEL STORAGE LICENSE
AMENDMENT (TAC NO. MF0435)

Dear Mr. Heacock:

By letter dated December 17, 2012, Dominion Nuclear Connecticut, Inc. submitted a license amendment request to revise Technical Specification (TS) 1.39, "Storage Pattern," TS 3.9.18, "Spent Fuel Pool - Storage," TS 3.9.19, "Spent Fuel Pool - Storage Patterns," TS 5.3.1, "Fuel Assemblies," TS 5.6.1, "Criticality," and TS 5.6.3, "Capacity" for Millstone Power Station, Unit No. 2 (Millstone), as a result of a new criticality safety analysis for fuel assembly storage in the Millstone fuel storage racks.

The Nuclear Regulatory Commission (NRC) staff is reviewing the submittal and has determined that additional information is needed to complete its review. The specific questions are found in the enclosed request for additional information (RAI). The NRC staff is requesting a response to the RAI within 45 days of the date of this letter.

If you have any questions regarding this issue, please contact me at (301) 415-1016.

Sincerely,

A handwritten signature in black ink, appearing to read "Nadiyah S. Morgan", is written over a horizontal line.

Nadiyah S. Morgan, Project Manager
Plant Licensing Branch 1-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-336

Enclosure:
RAI

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION

REGARDING SPENT FUEL STORAGE

LICENSE AMENDMENT REQUEST

DOMINION NUCLEAR CONNECTICUT, INC.

MILLSTONE POWER STATION, UNIT NO. 2

DOCKET NO. 50-336

By letter dated December 17, 2012 (Agencywide Documents Access and Management Systems Accession No. ML12362A391), Dominion Nuclear Connecticut, Inc. submitted a license amendment request to revise Technical Specification (TS) 1.39, "Storage Pattern," TS 3.9.18, "Spent Fuel Pool - Storage," TS 3.9.19, "Spent Fuel Pool - Storage Patterns," TS 5.3.1, "Fuel Assemblies," TS 5.6.1, "Criticality," and TS 5.6.3, "Capacity" for Millstone Power Station, Unit No. 2 (Millstone), as a result of a new criticality safety analysis for fuel assembly storage in the Millstone fuel storage racks. In order to complete its review, the Nuclear Regulatory Commission (NRC) staff needs the following additional information:

1. Discuss if the neutron absorbing capability of the borated stainless steel rodlets will be maintained such that degradation of the material does not exceed the assumptions made in the criticality analysis of record.
 - a. Describe how long each borated stainless steel rodlet may be used in the spent fuel pool over the life of the spent fuel pool.
 - b. Discuss whether a removed borated stainless steel rodlet can be reused in other fuel assemblies. In addition, describe how there is reasonable assurance that the re-used rodlet maintains the criticality analysis' assumed boron content of 2 percent. Include in the discussion, the expected maximum calculated fluence over the life of the spent fuel pool which includes time after the reactor is decommissioned; and if there would be any significant change in the material properties at this calculated fluence.
 - c. Is the program for surveillance and inspection of the poison rodlets described in the letter dated July 16, 1993, currently used at Millstone? If so, discuss in more detail the visual inspection aspect of the program including the parameters to be monitored and acceptance criteria to ensure that there is no material degradation occurring and that the boron content in the rodlets remains at the criticality analysis' assumed boron content of 2 percent.

Enclosure

April 26, 2013

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

SUBJECT: MILLSTONE POWER STATION, UNIT NO. 2 - REQUEST FOR ADDITIONAL
INFORMATION REGARDING SPENT FUEL STORAGE LICENSE
AMENDMENT (TAC NO. MF0435)

Dear Mr. Heacock:

By letter dated December 17, 2012 (Agencywide Documents Access and Management System Accession No. ML12362A391), Dominion Nuclear Connecticut, Inc. submitted a license amendment request to revise Technical Specification (TS) 1.39, "Storage Pattern," TS 3.9.18, "Spent Fuel Pool - Storage," TS 3.9.19, "Spent Fuel Pool - Storage Patterns," TS 5.3.1, "Fuel Assemblies," TS 5.6.1, "Criticality," and TS 5.6.3, "Capacity" for Millstone Power Station, Unit No. 2 (Millstone), as a result of a new criticality safety analysis for fuel assembly storage in the Millstone fuel storage racks.

The Nuclear Regulatory Commission (NRC) staff is reviewing the submittal and has determined that additional information is needed to complete its review. The specific questions are found in the enclosed request for additional information (RAI). The NRC staff is requesting a response to the RAI within 45 days of the date of this letter.

If you have any questions regarding this issue, please contact me at (301) 415-1016.

Sincerely,

/ra/

Nadiyah S. Morgan, Project Manager
Plant Licensing Branch 1-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-336

Enclosure:

RAI

cc w/encl: Distribution via Listserv

DISTRIBUTION:

PUBLIC	RidsNrrDorlLpl1-1	RidsNrrPMMillstone
LPL1-1 R/F	RidsNrrLAKGoldstein	RidsAcrcAcnw_MailCTR
RidsNrrDorlDpr	RidsRgn1MailCenter	EWong, NRR
RidsOGCMailCenter	RidsNrrDeEsgb	NMorgan, NRR

ADAMS Accession No.: ML13114A156 *Via email **See memo dated April 23, 2013

OFFICE	LPLI-1/PM	LPLI-1/LA	DE/ESGB/BC	LPLI-1/BC
NAME	NMorgan	KGoldstein	MYoder for GKulesa	SMeighan (A) (DPickett for)
DATE	4/26/2013	4/26/2013*	4/23/2013**	4/26/2013

OFFICIAL RECORD COPY