



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

August 10, 2010

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: GENERIC LETTER 2004-02 SUPPLEMENTAL RESPONSE – MILLSTONE  
POWER STATION, UNIT NO. 2 (TAC NO. MC4694)

Dear Mr. Heacock:

By letters dated March 4, and September 1, 2005; November 15, and December 19, 2007; February 29, and December 18, 2008; March 13, 2009; and July 8, 2010,<sup>1</sup> Dominion Nuclear Connecticut, Inc. (Dominion, or the licensee) submitted responses to Generic Letter (GL) 2004-02, "Potential Impact of Debris Blockage on Emergency Recirculation during Design Basis Accidents at Pressurized-Water Reactors," for Millstone Power Station, Unit No. 2 (MPS2). The U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the submittals using a process that involved a detailed review by a team of 10 subject matter experts, with focus on the review areas described in the NRC's "Revised Content Guide for GL 2004-02 Supplemental Responses" (ADAMS Accession No. ML073110389). The review process also included a separate review of the submittals, informed by inputs from the subject matter experts, which focused on whether the overall corrective actions for GL 2004-02 at MPS2 are adequate.

The NRC staff is satisfied with Dominion's response to the NRC staff's request for additional information dated February 4, 2010 (ADAMS Accession No. ML100070068) and has no further questions for MPS2 at this time. Several public teleconferences were held regarding Dominion's response to the NRC staff's questions.<sup>2</sup> The NRC staff's review of Dominion's actions regarding Millstone Power Station, Unit No. 3 is ongoing, and no statements in this letter apply to that unit.

As you may be aware, the NRC has not issued a final safety evaluation (SE) on WCAP-16793-NP, "Evaluation of Long-Term Cooling Considering Particulate, Fibrous, and Chemical Debris in the Recirculating Fluid." The NRC staff has reviewed the GL 2004-02 submittals for MPS2 and determined that Dominion currently intends to rely on the conclusions reached in WCAP-16793-

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<sup>1</sup> Agencywide Document Access and Management System (ADAMS) Accession Nos. ML050630559, ML052500378, ML073190553, ML090860438, ML080650561, ML083650005, ML090750436, and ML102010413, respectively.

<sup>2</sup> Public teleconferences were held on April 8, 2010, April 20, 2010, and June 7, 2010 (ADAMS Accession Nos. ML101250623, ML101170575, and ML101590648, respectively).

NP. Assuming disposition of WCAP-16793-NP results in NRC staff issuance of an SE, the NRC intends to send a letter requesting that Dominion confirm whether it still intends to rely on the conclusions reached in WCAP-16793-NP for MPS2. In addition, the letter will likely request a response within 60 days describing: (1) the means Dominion used to determine the amount of debris that bypasses the emergency core cooling system strainer; (2) the fiber loading expected per fuel assembly for the cold-leg and hot-leg break scenarios based on information available as of the date of the letter; (3) the available head loss margins with bases for the cold-leg and hot-leg break scenarios using the WCAP-16793 acceptance criteria; and (4) Dominion's planned actions for MPS2 should it exceed an acceptance criterion. The NRC staff will notify you of the expected timeline for any needed actions at the time the SE is issued, or will notify you of expectations for additional licensee actions should an SE not be issued. The NRC is not requesting any information from Dominion on this subject at this time.

If you have any further questions on this matter, please contact me at 301-415-1603.

Sincerely,



Carleen Sanders, Project Manager  
Plant Licensing Branch I-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

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