



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

October 24, 2011

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 CYCLE 12 CORE OPERATING LIMITS REPORT
(TAC NO. ME6365)

Dear Mr. Heacock:

By letter dated May 19, 2011 (Agencywide Documents Access and Management System Accession No. ML11152A148), Dominion Nuclear Connecticut, Inc. (DNC or the licensee) submitted the Millstone Power Station, Unit No. 2 (MPS2) Cycle 21 Core Operating Limits Report in accordance with the MPS2 Technical Specifications. The U.S. Nuclear Regulatory Commission staff has reviewed the information submitted by the licensee, and based on this review, determined that additional information is required to complete the review.

The draft questions were sent to Mr. William Bartron, of your staff, to ensure that the questions were understandable, the regulatory basis for the questions was clear, and to determine if the information was previously docketed. On October 18, 2011, Ms. Wanda Craft, of your staff, agreed that you would provide a response by November 30, 2011.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Carleen J. Sanders".

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

Docket No. 50-336

Enclosure:
Request for Additional Information

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REQUEST FOR ADDITIONAL INFORMATION

CORE OPERATING LIMITS REPORT

DOMINION NUCLEAR CONNECTICUT, INC.

MILLSTONE POWER STATION, UNIT NO. 2

DOCKET NO. 50-336

By letter dated May 19, 2011 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML11152A148), Dominion Nuclear Connecticut, Inc. (DNC or the licensee) submitted the Millstone Power Station, Unit No. 2 (MPS2) Cycle 21 Core Operating Limits Report (COLR) in accordance with the MPS2 Technical Specifications (TSs). Generic Letter (GL) 88-16, "Removal of Cycle-Specific Parameter Limits from Technical Specifications," provided guidance to licensee's on removing cycle-specific parameters from the TSs and placing them into a formal report to be submitted to the U.S. Nuclear Regulatory Commission (NRC). By letter dated October 12, 1990 (ADAMS Accession No. ML012890108), the NRC approved an amendment for MPS2 to remove the cycle-specific parameter limits from the TSs and placed the limits in the COLR.

In accordance with GL 88-16, the COLR "includes the values of cycle-specific parameter limits that have been established using an NRC-approved methodology and consistent with all applicable limits of the safety analysis," and shall be submitted to the NRC staff for information. MPS2 TSs state the core operating limits for the linear heat rate shall be established and documented in the COLR. The MPS2 TSs further state that the analytical methods used to determine the core operating limits shall be those previously reviewed and approved by the NRC, specifically those methods described in the documents referenced in MPS2 TS 6.9.1.8b. In the May 19, 2011, letter DNC states that there is an "[a]ddition of a penalty factor to account for the impact of the offset incore instrument (ICI) detectors on the linear heat rate measurement," for Cycle 21 at MPS2.

In order to complete its review of the MPS2 Cycle 21 COLR, the NRC staff needs the following additional information:

1. Please provide a detailed description of the methodology used to determine the linear heat rate measurement. Is this methodology approved by the NRC, and is it described in the documents referenced in TS 6.9.1.8b?
2. Describe the methodology used to generate a penalty factor to account for the impact of the offset ICI detectors on the linear heat rate measurement. Is this methodology approved by the NRC, and is it described in the documents referenced in TS 6.9.1.8b?
3. Is the impact of the offset ICI detectors on the revised acceptable operating region (Figure 2.5-1) conservative? Is the revised penalty factor specified in item 2.5 conservative?

Enclosure

4. Provide documentation (e.g. any analysis or evaluation) of the impact of the offset ICI detectors on the linear heat rate measurement.
5. Please provide any Title 10 of the *Code of Federal Regulations*, Part 50.59 design change screening and/or evaluations related to the offset ICI detectors.

October 24, 2011

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/ra/

Carleen J. Sanders, Project Manager
Plant Licensing Branch I-2
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