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May 1, 2012

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

Serial No. 12-271
NSSL/WDC R0
Docket No. 50-336
License No. DPR-65

DOMINION NUCLEAR CONNECTICUT, INC.
MILLSTONE POWER STATION UNIT 2
SUPPLEMENT TO RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION
REGARDING THE CYCLE 21 CORE OPERATING LIMITS REPORT (TAC NO.
ME6365)

Dominion Nuclear Connecticut, Inc. (DNC) submitted the Millstone Power Station Unit 2 (MPS2) Cycle 21 Core Operating Limits Report (COLR) to the Nuclear Regulatory Commission (NRC) in a letter dated May 19, 2011. The COLR included the values of cycle-specific parameter limits and was submitted to the NRC for information. In a letter dated October 24, 2011, the NRC transmitted a request for additional information (RAI) to DNC related to the MPS2 Cycle 21 COLR. In letters dated November 30, 2011 and January 18, 2012, DNC responded to the RAIs.

In the November 30, 2011 response to the RAI, DNC stated:

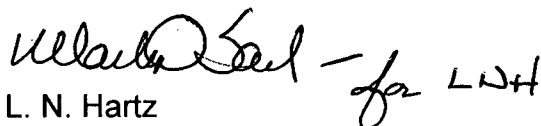
“For Cycle 20 operation, no change was needed to the acceptable operation regions as defined in the COLR figures (i.e., tents) and the impact on F_Q^N (or Linear Heat Generation Rate (LHGR)) was accommodated within the known conservatism of the methodology.”

In a phone call on April 4, 2012, the NRC requested DNC provide the Cycle 20 calculated F_Q^N uncertainty, including the impact of the offset incore instrument (ICI) detector strings on the uncertainty. This letter supplements the DNC responses dated November 30, 2011 and January 18, 2012 to the NRC request for additional information dated October 24, 2011, and provides the additional requested information.

For MPS2 Cycle 20 operation, AREVA determined that the total F_Q^N uncertainty was 1.0690. This value includes the statistical uncertainty on F_Q^N and bias (or penalty) associated with the offset ICI detector strings. This value was less than the Cycle 20 COLR linear heat rate measurement-calculational uncertainty factor of 1.07. As a result, no additional penalty on F_Q^N was required for Cycle 20 operation.

If you have any questions regarding this submittal, please contact Wanda Craft at (804) 273-4687.

Sincerely,



L. N. Hartz
Vice President – Nuclear Support Services

ADD1

Commitments made in this letter:

1. None

cc: U.S. Nuclear Regulatory Commission
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