



**Proprietary Information – Withhold Under 10 CFR 2.390**

March 7, 2013

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

Serial No. 12-578A  
NSSLWDC 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 30-DAY REPORT FOR EMERGENCY CORE COOLING SYSTEM**  
**MODEL CHANGES (TAC NO. ME7881)**

By letter dated January 25, 2012, Dominion Nuclear Connecticut, Inc. (DNC) submitted the Millstone Power Station Unit 2 (MPS2) 30-Day Report for Emergency Core Cooling System Model Changes. The report documented changes to, or errors discovered in, an acceptable Small Break Loss of Coolant Accident (SBLOCA) evaluation model (EM) application for the emergency core cooling system for MPS2, in accordance with 10 CFR 50.46(a)(3)(ii). By letter dated August 28, 2012, the NRC transmitted a request for additional information (RAI) to DNC related to the report. DNC responded to the RAI in a letter dated November 1, 2012.

In a telephone call between NRC and DNC on November 20, 2012, DNC agreed to perform additional sensitivity studies which would combine the effects of certain modeling assumptions for the MPS2 SBLOCA. Attachment 1 provides the summary report of the sensitivity studies. The report contains proprietary AREVA information. The non-proprietary version of the report is provided in Attachment 2. It is respectfully requested that Attachment 1 be withheld from public disclosure in accordance with 10 CFR 2.390. The AREVA application for withholding and affidavit is provided in Attachment 3.

As shown in the attached report, the SBLOCA current licensing basis peak clad temperature of 1801°F remains conservative. Since the MPS2 SBLOCA current licensing basis peak clad temperature is conservative and consistent with the Reference 1 NRC approved methodology, no additional reporting under 10 CFR 50.46(a)(3)(ii) is warranted.


DNC understands that Supplement 1 of the Reference 1 AREVA S-RELAP5 based PWR SBLOCA evaluation model is currently with the NRC for review and approval. As stated in the DNC letter dated November 1, 2012, within one year of NRC approval of Supplement 1 of Reference 1, DNC plans to submit a reanalysis of the SBLOCA event using Supplement 1 of Reference 1.

**Attachment 1 contains information that is being withheld from public disclosure under 10 CFR 2.390. Upon separation from Attachment 1, this letter is decontrolled.**

A002  
NRC

If you have any questions regarding this submittal, please contact William D. Bartron at (860) 444-4301.

Sincerely,



Eugene S. Grecheck  
Vice President – Nuclear Engineering and Development

References:

1. AREVA Report EMF-2328(P)(A), Revision 0, "PWR Small Break LOCA Evaluation Model, S-RELAP5 Based," March 2001.

Attachments:

1. Millstone Unit 2 Small Break LOCA Sensitivity Study Summary Report (Proprietary)
2. Millstone Unit 2 Small Break LOCA Sensitivity Study Summary Report (Non-Proprietary)
3. AREVA application for withholding and affidavit

Commitments made in this letter: None

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