UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
2100 RENAISSANCE BLVD., SUITE 100
KING OF PRUSSIA, PA 19406-2713

April 5, 2017

MEETING SUMMARY

LICENSEE: DOMINION NUCLEAR CONNECTICUT, INC.

FACILITY: MILLSTONE POWER STATION

SUBJECT: SUMMARY OF PUBLIC MEETING

On March 22, 2017, at 6:00 p.m., the U.S. Nuclear Regulatory Commission (NRC) met with the Connecticut Nuclear Energy Advisory Council (NEAC) at the Waterford Public Library in Waterford, Connecticut. The NRC conducted the meeting to discuss its assessment of the safety performance at Millstone Power Station for 2016.

A notice of the NRC and NEAC meeting was issued on March 9, 2017, and was posted on the NRC's external (public) Web page. The meeting notice can be found in the NRC's Agencywide Documents Access and Management System (ADAMS) with Accession Number ML17068A058. ADAMS is accessible from the NRC Web page at: http://www.nrc.gov/reading-rm/adams.html.

The NRC discussed its assessment of the safety performance of Millstone Power Station for the period of January 1 through December 31, 2016, as documented in our letter dated March 1, 2017 (ADAMS Accession Number ML17059D364). Additional information relative to the NRC's Annual Assessment Process and the safety performance of Millstone Power Station can be found on the NRC's web site at: https://www.nrc.gov/reactors/operating/oversight.html.

Members of NEAC, the public, and members of the media attended the meeting and were offered the opportunity to question the NRC regarding Dominion's performance and the role of the agency in ensuring safe plant operations. Some of the questions required additional research with technical experts within the NRC. The answers regarding these topics are included as an enclosure to this letter.

/RA/
Thomas C. Setzer, Acting Chief
Projects Branch 2
Division of Reactor Projects

Enclosure:
Annual Assessment Meeting Public
Topics of Interest

SUBJECT: SUMMARY OF PUBLIC MEETING DATED APRIL 5, 2017

DISTRIBUTION: (via email)
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DOC NAME: G:\DRP\BRANCH2\Site Visits, Briefings, Meetings\2017 Annual Assessment Meetings\Millstone\Millstone 2017 AAM Meeting Summary.docx
ADAMS Accession Number: **ML17096A451**

☑ SUNSI Review		☑ Non-Sensitive ☐ Sensitive		☑ Publicly Available ☐ Non-Publicly Available	
OFFICE	RI/DRP	RI/DRP			
NAME	JPatel	TSetzer			
DATE	4/5/17	4/5/17			

OFFICIAL RECORD COPY

Annual Assessment Meeting Public Topics of Interest

Quantified impact associated with the Fukushima event
International Atomic Energy Agency report on radiation releases (Report by the Director General):
http://www-pub.iaea.org/MTCD/Publications/PDF/Pub1710-ReportByTheDG-Web.pdf

NRC Near Term Task Force Review of Insights from the Fukushima Dai-Ichi Accident:
https://www.nrc.gov/docs/ML1118/ML111861807.pdf

Quantified heat load of the Millstone Unit 1 spent fuel pool
In 2010, the Unit 1 heat load was calculated to be 1.11MBTU/hr and was extrapolated to 2020 to be 0.932MBTU/hr. Interpolating the data from the calculated model, the present heat load is approximately 1.0MBTU/hr.

Licensee seismic analyses associated with the Japan Lessoned Learned review
Seismic analyses and other pertinent information regarding the Japan Lessoned Learned review can be found at the following websites:
https://www.nrc.gov/reactors/operating/ops-experience/japan-dashboard/japan-plants.html
https://www.nrc.gov/reactors/operating/ops-experience/japan-dashboard/seismic-reevaluations.html

Hydrogen release during the Millstone Unit 3 Unusual Event on May 15, 2016
The first reading taken was 34 percent of LEL (lower explosive level), while the second reading taken was 22 percent of LEL. LEL is defined as 4 percent of Hydrogen in the atmosphere.

Millstone allegations data and trends
The 2016 Allegation Program Annual Trend Report is expected to be issued by the end of April 2017. The 2015 Allegation Program Annual Trend Report can be found at the following website:
https://www.nrc.gov/docs/ML1611/ML16119A431.pdf

Quantified reliability of the Unit 3 Turbine Driven Auxiliary Feedwater pump
In addition to the baseline inspection program, the NRC utilizes voluntary performance indicators (PI) to quantitatively assess licensee performance. Within this framework lies the Mitigating Systems Performance Index (MSPI), which is a monitor of the readiness of important safety systems to accomplish their safety functions in response to analyzed events. It objectively establishes unavailability and unreliability indices, UAI and URI respectively, by evaluating actual availability and reliability data for each monitored system against industry standards and unit specific performance limits over the last three years. The UAI and URI values are summed to establish the MSPI for each monitored system as a simplified core damage frequency which can be compared on scale from Green (nominal) through Red (significant decline in performance).

NRC Inspection Manual Chapter 0608, “Performance Indicator Program,” and Inspection Procedure 71151, “Performance Indicator Verification,” provide additional details for determining UAI, URI, and MSPI for a specified system. These are located in the NRC’s inspection manual and are available at the following website:
https://www.nrc.gov/reading-rm/doc-collections/insp-manual/

The Millstone Unit 3 Turbine Driven Auxiliary Feedwater Pump is evaluated for MSPI against the Heat Removal system PI which based upon last reported data is Green. Recent MSPI data can be found on the Millstone Unit 3 performance summary page: https://www.nrc.gov/reactors/operating/oversight/mill3/mill3-pi.html#MS08.

Unit 2 licensing exam failures, November 2016

The Millstone Unit 2 Operator Licensing Exam Report can be found at the following website: https://www.nrc.gov/docs/ML1633/ML16334A125.pdf

Following NRC's feedback to Dominion's training department, Dominion formally remediated the individuals with plans approved by Dominion's training and operations departments. The individuals were assigned a mentor and instructor to work on Job Performance Measures (JPMs) that were missed during the examination and additional JPMs to improve any performance gaps. The individuals successfully passed the subsequent examinations following remediation.

Status of Dominion's Decommissioning Trust Fund

Decommissioning trust fund information, and NRC is available at the following locations:
Unit 1: https://www.nrc.gov/docs/ML1608/ML16085A346.pdf
Units 2 and 3: https://www.nrc.gov/docs/ML1509/ML15093A103.pdf
NRC Analysis of Licensees' Decommissioning Funding Status Reports:
https://www.nrc.gov/docs/ML1535/ML15357A397.pdf