NUCLEAR ENERGY ADVISORY COUNCIL September 18, 2025 at 6:30 PM Millstone Simulator Training Building Waterford, CT

MINUTES

Members Present

Rep Kevin Ryan, Chair

Alternate Chair Mr. Jeffrey Semancik representing DEEP Commissioner Dykes

Mr. Craig Salonia Mr. R. Woolrich
Dr. James Sherrard Mr. Michael Quinn

Mr. Bill Sheehan Mr. J. McGunnigle (meeting only)

Sen Cathy Osten (tour only)

Member not present:

Mr. A. Jordan

1. Tour of Millstone Station. Council members participated in a tour of Millstone Station including Unit 3 emergency diesel generator, Unit 3 turbine building, and the Unit 2 Main Control Room. Dominion staff were available to answer questions for Council members. The tour was conducted from 4:30 PM to 6:00 PM.

2. Call to Order of Meeting

Council Chair Rep. Ryan called the meeting to order at 6:30 PM.

- 3. Approval of Minutes of previous Council meetings.
 - a. A motion was made to approve the minutes of the July 24, 2025 and July 29, 2025 Council meetings by Mr. Sheehan and seconded by Mr. Sherrard. The minutes were approved without objection.
- 4. Program Presentation by Dominion Nuclear Energy Inc. Mr. Mark Goolsbey, Operations Director; Mr. Alex Trespalacios, Plant Manager; Ms. Susan Adams, State Policy Director for New England; Mr. Chris Chapman, Director Plant Support; Mr. Adam McGuire, Director of Engineering; Mr. Bill Bessette, Director of Maintenance; and Mr. James Petty, Station Vice President (presentation attached).
 - a. Safety Mr. Chapman highlighted industrial safety performance at Millstone. He noted Dominion follows a "safety always" approach that focuses on protecting public health and safety and climate resiliency by understanding the threats and ensuring the plant can safely generate electricity. He also noted that the station has recently completed a State of Connecticut Workers Compensation audit that concluded the station has a healthy culture and an effective safety committee. (slide 2)
 - b. Millstone Unit status Mr. Chapman discussed the two-year power history curves for both Millstone Units 2 and 3 (slides 3 and 4):
 - i. Currently both Units 2 and 3 are at 100% power.

- ii. Millstone 2 had a forced shutdown In December 2024 following its completion of a scheduled refueling and maintenance outage to address a hot spot (high temperature) on the electrical disconnect switch on the output of the main generator. Maintenance on the switch was completed and the unit returned to full power.
- iii. Millstone Unit 3 completed a 15 day maintenance outage in September 2024 to replace a pressurizer safety relief valves that was exhibiting seat leakage.
- iv. Millstone Unit 3 completed a 32-day scheduled maintenance and refueling outage in April and May of 2025.
- v. In August of 2025, Millstone 3 was taken offline to replace the C reactor coolant pump (RCP) seal and to implement temporary design changes to capture any reactor coolant system (RCS) leakage from the seal.
- vi. In September 2025, Unit 3 reduced power to facilitate an online containment entry to enhance cooling the C RCP motor by removing motor cooler inspection covers to improve air flow.
- c. Mr. Petty discussed restructuring of the senior leadership team that was conducted across the Dominion nuclear fleet. The changes focused on forward looking and fleet first after benchmarking industry best performers. As part of the restructure, Dominion added a project manager director as a member of the senior leadership team to ensure success on large capital projects. It also consolidated work management and maintenance departments under a single director to improve performance. (slide 5)
- d. Nuclear Regulatory Commission (NRC) Findings Mr. Chapman briefed the Council that there were 9 NRC issued findings since last meeting, 4 of which were licensee identified. This is down from 19 findings reported at last year's briefing. (slide 6)
 - i. Mr. Semancik asked what Dominion attributed the reduction in findings to. Mr. Chapman responded that Dominion established a more robust relationship with the regulator to identify and address issues and address concerns earlier. They also have regular communication with operators to understand issues that may be of concern to them.
 - ii. Mr. Sheehan asked how long it takes to complete corrective actions. Mr. Chapman responded that all findings are in the Dominion corrective action system and the team works to understand cause within 30 days. Mr. Trespalacios added that there are no open corrective actions associated with any NRC findings. Mr. Petty also stated that the NRC conducts a Problem Identification and Resolution (PI&R) inspection every 3 years and there were no issues identified in the last PI&R.
- e. Mr. Chapman reviewed recent license amendments request submitted by Dominion. All NRC correspondence related to license amendments is reviewed by the Council as noted in section 4 of the minutes. (slide 7)
 - Dominion received NRC approval to use a new design of nuclear fuel that will allow them to transition from their current 18-month fuel cycles to 24-month fuel cycles. In addition, this new fuel design is considered Accident Tolerant Fuel (ATF).
 - NRC approved Dominion's request to extend inspection frequency for RCP flywheels.

- 1. Mr. Semancik asked in the boric acid in the RCS leakage form the C RCP seal had any effect on the assumptions of this analysis. Mr. Chapman responded that it did not.
- f. Mr. Chapman noted all NRC performance indicators for the station are green. (slide 8)
- g. Mr. Chapman noted the Dominion continues to perform required internal oversight audits and has not identified any significant issues in recent corrective action and fire protection audits. Mr. Goolsbey also briefed the Council on changes to Fleet Operations and Training program with more corporate oversight and the ability to levels of concern, (Slide 9)
 - i. Mr. Semancik asked if there was a separate report change for the Fleet Operations and Training program. Mr. Goolsbey responded "Yes" and that the stronger fleet assistance from the corporate functional area managers. Mr. Trespalacios added that there has been considerable improvement in the corporate response to urgent issues form the fleet as a result of this change. This also includes leveraging peer teams for steady-state improvement.
- h. Mr. Chapman discussed 5 reportable environmental events since the last Council presentation in September 2024. He acknowledged this was above the station goal of 0. (slide 10)
- i. Emergency Preparedness and Response update was provided by Mr. Chapman. Millstone made no emergency declarations since presentation to the Council in 2025. (slide 11) Mr. Goolsbey discussed the planned change to the offsite emergency plan that transitions away for warning sirens to the Integrated Public Alert & Warning System (IPAWS), FEMA's national system for local alerting that provides authenticated emergency and life-saving information to the public through mobile phones using Wireless Emergency Alerts, to radio and television via the Emergency Alert System, and on the National Oceanic and Atmospheric Administration's Weather Radio. The State Division of Emergency Management and Homeland Security (DEMHS) has approved this change. He noted that due to delays involving Fishers Island, the changeover is now scheduled for 1Q26. He further explained that instead of sirens, Millstone emergency alerts would be like amber alerts. Mr. Chapman noted that Dominion will only maintain sirens on Fishers Island, NY and will remove all others. (slide 12)
 - i. Mr. Sheehan noted that in response to recent flooding events in Texas, the communities with sirens had few issues, but those without sirens had more issues including the deaths at the campground. He suggested Dominion should reconsider this decision in light of this recent operational experience. He noted, as a Waterford resident, he has recommend to town officials that Waterford keep their sirens. Mr. Trespalacios noted that the issues in Kirk County, TX stemmed form a failure to implement IPAWS vice the decision to use IPAWS. Mr. Semancik noted that the decision to go to IPAWS was not a unilateral decision by Dominion but had the concurrence of the Connecticut Division of Emergency Management and Homeland Security and the Emergency Management directors in the Emergency Planning Zone communities. Mr. Petty noted that the Council still had some questions and asked his folks to follow up.

- j. Mr. Goolsbey discussed environmental releases (slide 13) and noted the Advanced Liquid Processing system has essentially reduced radioactive liquid discharges to zero.
- k. Mr. Chapman discussed major equipment improvements planned for both Units 2 and 3 over the next year. These design changes are intended to maintain safety and provide reliability for future operations. (slides 14 and 15)
 - i. Ms. Adams provided an update on nuclear policy issues. Connecticut recently passed Senate Bill 4 which, in part lifted the moratorium on construction of any new nuclear generating facilities provided the host municipality votes to opt in. It also has DEEP administer up to \$5M in state bond funds to support communities in early site permitting activities. She noted this was indicative of a national trend as 25 states passed pro-nuclear legislation such as lifting moratoriums and streamlining permitting. (slide 16) Ms. Adams noted the state currently has a 10 year power purchase agreement (PPA) with Millstone that expires in 2029. Connecticut has passed a bill to allow a new PPA provided at least two other states also support the PPA. Massachusetts, Maine and Rhode Island all passed legislation to allow them to enter into a PPA for electricity generated by nuclear power. Dominion would still like to extend the PPA. Dominion prefers to a regulated-like structure in order to support capital outlay and is willing to include 100% of its output in a PPA. (slide 17)
- I. Topics requested by the Council (slide 18)
 - i. Unit 3 RCP Seals.
 - Mr. Chapman provided background on RCPS seals at Unit 3, Dominion was originally challenged by RCP service life of Westinghouse seals and had good experience with the Flowserve seals at Unti 2. Mr. Goolsbey noted the original Westinghouse RCP seals could have up to 50 gpm each of RCS leakage in a loss of offsite power scenario. Mr. Petty added, however, that Westinghouse has since come up with a low leakage seal. So, station management made a decision to move to Flowserve seals at Unit 3, but the larger RCPs at Unit 3 required significant design changes that have resulted in a number of unplanned outages. While they have fixed some of the earlier issues such as pitting of the seal faces, this has resulted in new issues causing high leakage. As a result they will be changing to a new seal vendor.
 - 1. Mr. Semancik asked if the failure modes were well understood to ensure that the safety function (limiting RCS leakage on a loss of offsite power) was not adversely impacted. Mr. Chapman answered that the design has a static abeyance seal that is not in paly during normal operating conditions. The failed seals have been carefully autopsied to understand failure mechanisms and effects. Mr. Trespalacios added that the station has strict Operational Decision Making guidelines in place to have operator take action to shutdown before any major adverse impacts to the seals.
 - Mr. Semancik asked how Millstone was managing current RCP seal leakage into containment, especially with respect to understanding and mitigating any adverse effects from boric acid corrosion on any targets, especially the reactor vessel head. Mr. Chapman responded that they have a fleet team of

experts monitoring the sela leakage weekly. They have conducted containment entries to clear boric acid build up on the C RCP motor and remove some motor covers to improve cooling flow. They are also monitoring boron buildup in containment ventilation air coolers. Mr. Petty added that they have conducted drone flights in containment to look for targets. From a nuclear safety perspective, he stated there was nothing driving them to shutdown and replace the seals until at least January. However, they are ready to execute a replacement if necessary.

- ii. Mr. Goolsbey discussed the status of the decommissioned Unit 1. Currently all 2,284 spent nuclear fuel (SNF) bundles from Unit 1 remain in the wet storage pool Dominion is moving forward with a plan to move the SNF to dry cask storage to eliminate the liability associated with maintaining the building and cooling systems.
 - Mr. Sheehan asked if there was room on the Independent Spent Fuel Storage Installation (ISFSI) pad. Mr. Goolsbey responded that there is enough room on the pad to support station operations through 2045 with the Unit 1 fuel added, but that Dominion is evaluating whether it makes more sense to build a dedicated pad for Unit 1 fuel.
 - 2. Mr. Sheenan asked about what approvals were needed. Mr. Goolsbey responded that they need approval from the NRC, town, and siting council. He noted the schedule was to select a vendor in 2026. He estimated that it would take 5 to 7 years to build out the ISFIS and transfer all the Unit 1 SNF. Mr. Sheehan recommended that Dominion communicate and coordinate with local residents before and throughout the process.
- iii. Mr. Goolsbey discussed license duration for both units. He noted that both Unit 2 and Unit 3 are in the period of extended operations, that period after the original license expiration (40 years) and within the subsequent 20-year license extension approved by the NRC. He also stated that Dominion is currently working on license amendment requests for both units to extend their operating licenses by another 20 years (to 80 years). He said Dominion was the only utility that already has multiple stations licensed to 80 years, Millstone will be the 4th station extended. Dominion expects to submit the license amendments in the 1st quarter of 2028 and that the NRC will take about 12 months to review and approve.
- iv. Mr. Goolsbey discussed how Dominion will be the first station in the Dominion fleet to transition from 18-month to 2-year fuel cycles. Millstone units 2 and 3 will refuel every spring, alternating units. This will provide a repeatable and steady operational cadence for the station and eliminate 7 refueling shutdowns in 20-year supplemental license renewal period. Planned outages will be conducted in the spring to minimize environmental effects by reducing cooling water flow during winter flounder larvae season. They expect to start with Unit 3 refueling in spring 2028 followed by Unit 2 in spring 2029.
 - 1. Mr. Semancik asked in the 24-month fuel required any changes to SNF dry casks. Mr. Goolsbey responded that Dominion is already using new casks that can handle the higher burnup SNF.

- Mr. Ryan asked if there was any possibility of restarting Unit 1. Mr.
 Goolsbey responded that Unit 1 was too far into the decommissioning to be restarted. Dominion is not pursuing Unit 1 restart.
- v. Mr. Sheehan asked if Dominion could provide any status update on the proposal to co-locate a Data Center at Millstone. Mr. Goolsbey responded Dominion is not actively pursuing any data center deal.

5. Public Comment

a. No members of the public were in attendance.

6. Council Business

Next Council meeting will be at 7 PM Thursday, December 19, 2025 at Waterford Town Hall for discussion and drafting of the annual report.

7. NRC Correspondence Reviewed since past meeting.

The following list of NRC Correspondence was reviewed.

- a. Millstone Power Station, Units 2 and 3 Integrated Inspection Report 05000336/2025002 and 05000423/2025002 dated August 12, 2025.
- b. NRC Docket No. PRM–50–123; NRC–2020–0155, Public Protective Actions During a General Emergency. Federal Register Vol. 90, No. 137, July 21, 2025.

8. Other material reviewed

NEAC reviewed the following information:

 Wagner et al, INL/RPT-25-85463, Reevaluation of Radiation Protection Standards for Workers and the Public Based on Current Scientific Evidence. Idaho National Laboratory, July 2025.

9. Adjournment

Motion was made by Mr. Sheehan and seconded by Mr. McGunnigle to adjourn; no objections; unanimous vote in favor; meeting adjourned at 7:40 PM.



Safety

Standards first, safety always

Commitment to protect the health and safety of the public



Millstone Current Status

Millstone Unit 2

- 308 days online
- 99.95% capacity factor YTD
- 4134 days since last automatic reactor trip (2092 days manual trip)

Millstone Unit 3

- 45 days online
- 82.31% capacity factor YTD
- 842 days since last automatic reactor trip

Station Capacity Factor

- 2023: 74.59%
- 2024: 91.81%
- 2025 YTD: 89.2%



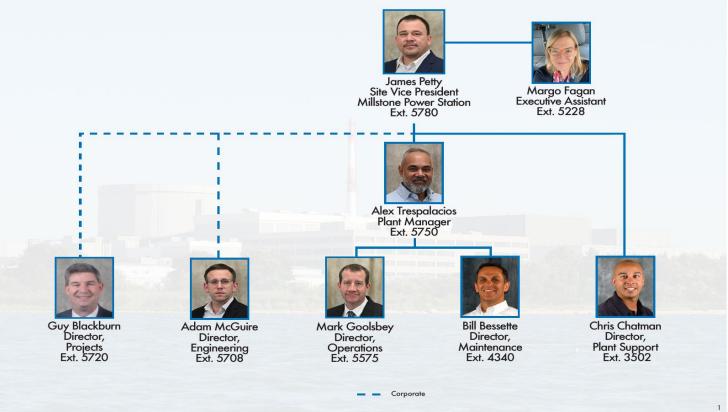
Operations Power History





Millstone Senior Leadership Team





NRC Findings

Significant reduction in numbers of NCVs in 2025

- First half 2025 1 NCV
- Second half 2024 8 NCVs

Nine Green Non-cited violations/findings identified since Sept 2024

- All are very low risk significance
- 4 are Licensee identified.
- All are in our corrective action system

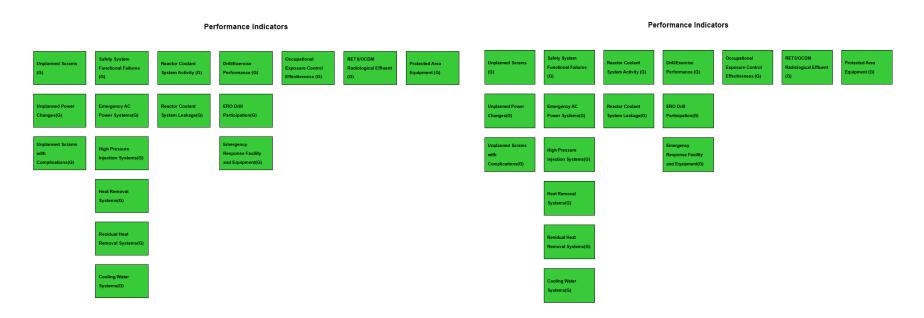


License Amendment Requests

- License Amendment Requests Approved by the NRC
 - Millstone Unit 3 GAIA Fuel for Reload (November 2024)
 - Millstone Unit 3 TSTF-427 RCP Flywheel Inspection Frequency Extension (December 2024)



Millstone NRC Performance Indicators



Unit 2 Second Quarter 2025 NRC Performance Indicators

Unit 3 Second Quarter 2025 NRC Performance Indicators



Millstone Nuclear Oversight Summary

Performance

- Robust Fleet Operations & Training
 - Letter of Concern
 - Area of Concern
 - Elevation



Environmental Impacts

Date of Notification	Correspondence Number	Reason for Notification
Oct-24	D19339- Electronic 5-day	DSN 001-B11 Total Suspended Solid (TSS) permit exceedance while draining RBCCW sump
Feb-25	D19361 – Electronic 5-day	DSN 001-B Loss of continuous monitoring. Suspected faulty probe which was replaced
Feb-25	D19365 – Electronic 5-day	DSN 006-1 Loss of pH due to faulty probe outside of calibration specifications
Feb-25	D19367- Electronic 5-day	DSN 001-B –Loss of continuous monitoring for pH. The probe is operational but faulty communication cable to plant processing computer (PPC)
Jul-25	S19389 – Electronic 5-day	Observed oil sheen from diesel fuel release to Long Island Sound through stormwater outfall DSN 006-1



Emergency Plan Event Declarations

No Emergency Plan Event Declarations in 2025

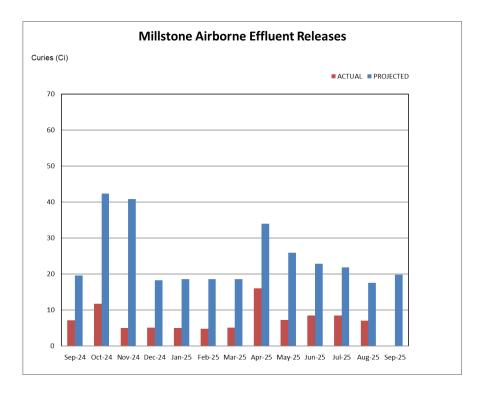


Offsite Emergency Plan Changes

1Q 2026 IPAWS implementation



Airborne Effluent Releases



- Releases continue to be below projections
- Data publicly available on our website

Millstone Gaseous Radioactive Doses - August 2025						
Dose category	Unit	Limit	Actual	% of limit		
Noble gas gamma	mrad	0.833	0.0000030	less than 0.0004		
Noble gas beta	mrad	1.67	0.0000075	less than 0.0004		
lodine, particulates, tritium	mrem	1.25	0.0069	less than 0.553		
Total, whole body	mrem	2.08	0.0051	less than 0.244		



Improvements & Increased Safety and Reliability

Station Improvements since September 2024

- Replacement of 2 U3 MSVB dampers (SLCRS)
- Unit 1 345KV Tie Line Removal (Final Line)
- U2 Containment Integrated Leak Rate Test
- U3 C RPCCW Heat Exchanger replacement
- U3 Intake equipment / material condition improvements
- U3 Main Generator Output breaker replacement
- U2 CST Trench repairs



Improvements & Increased Safety and Reliability

Upcoming Unit 2 Improvements

- C Service Water Strainer replacement
- Intake equipment / material condition improvements
- A RCP Motor overhaul
- C and D RCP seal replacements



Impact of Recent Legislation

CT Public Act No. 25-173 (Senate Bill 4) - AN ACT CONCERNING ENERGY AFFORDABILITY, ACCESS AND ACCOUNTABILITY

- Allows new nuclear to be built throughout CT
 - Prior to this bill, new nuclear could only be built at existing generation plants (Millstone)
- Requires DEEP to establish an advanced nuclear reactor site readiness fund of \$5M
 - This is a competitive funding program to provide grants or loans to support early site permitting, regional infrastructure assessments, community engagement and other expenses to advance site readiness.



Impact of Recent Legislation, continued

Power Purchase Agreement – Expires in 2029

2024:

CT Public Act 24-38 (Senate Bill 385) This bill permits the Commissioner of DEEP to coordinate with two other New England states to procure nuclear power.

2025:

Clean Energy Bills were passed MA, ME and RI providing the necessary authority to join CT in a multi-state procurement agreement for nuclear power

We are currently in conversations with these NE states and hope to reach an agreement in early 2026.



Other Topics

- Unit 3 Reactor Coolant Pump seals
- Unit 1 Decommissioning
- Life Extension
- 2 Year Fuel Cycles



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