

Millstone Units 2 & 3

Annual Assessment Meeting for 2023

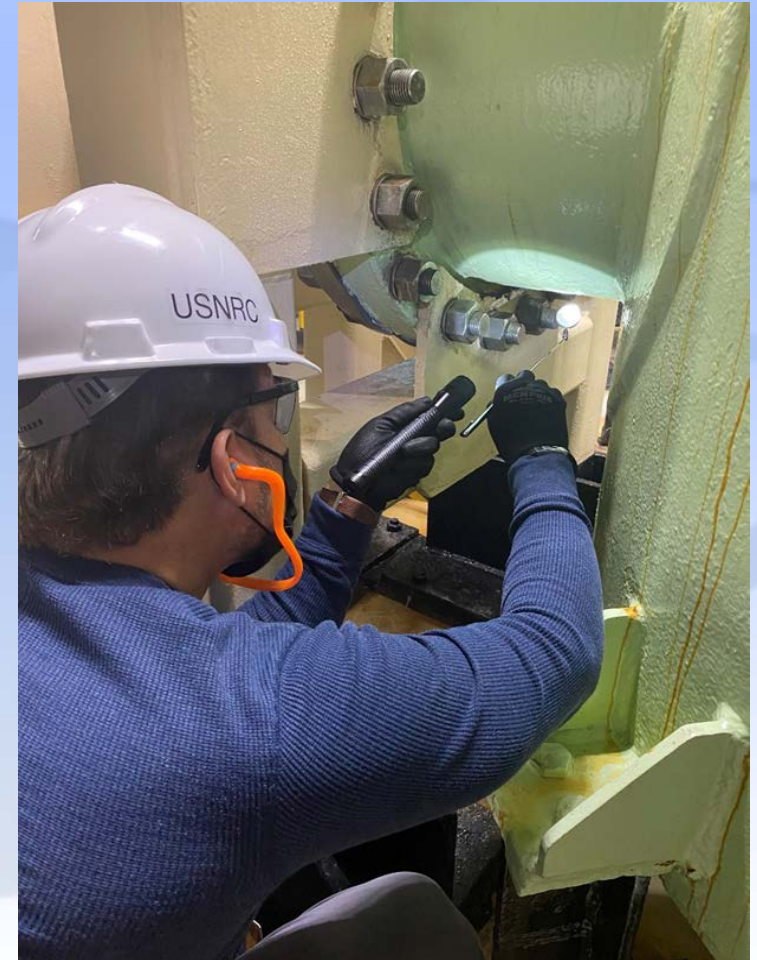
Reactor Oversight Process

**Nuclear Regulatory Commission
Region I**

May 16, 2024



- Opening Remarks
- 2023 Millstone Reactor Oversight Process (ROP) Assessment Summary
- Other NEAC Items of Interest
 - Security Special Inspection & Engineering Inspection Changes
 - U.S. Government Accountability Office (GAO) Audit
 - 2023 Millstone Finding Summary
 - Power History and Performance Indicators
 - Licensee Event Reports
- Q&A





Overall Assessment

**Millstone Units 2 and 3 operated safely in 2023
and continue to do so today**





Inspection and Oversight

- **Three full-time residents assigned to Millstone**



Justin Fuller
Senior Resident



Dominic Antonangeli
Resident Inspector



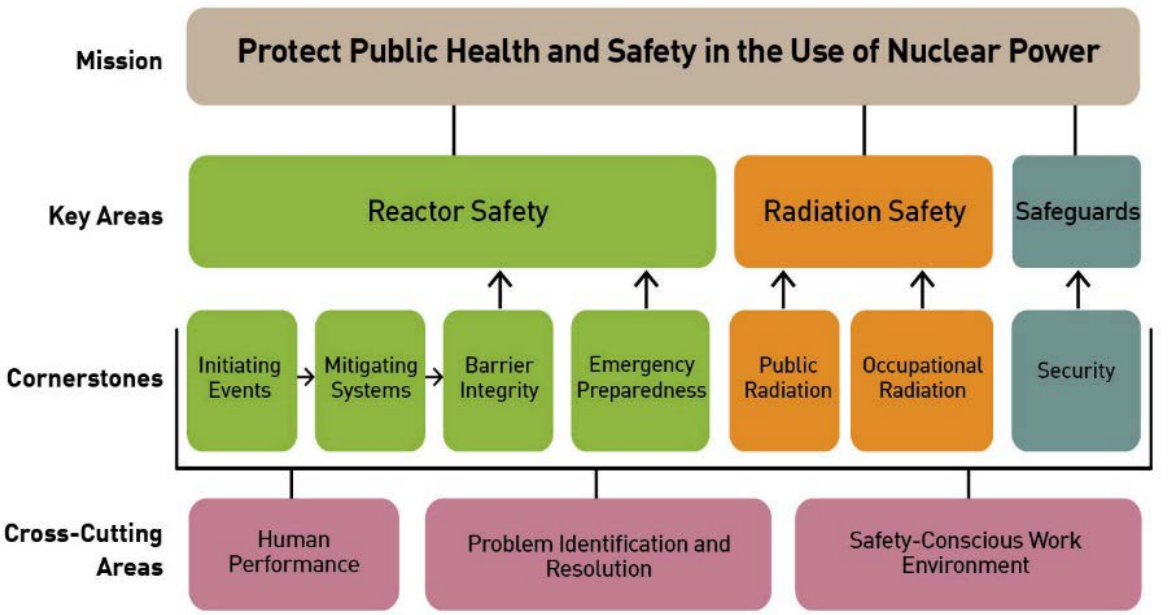
Earl Bousquet
Resident Inspector

- **Inspectors have unfettered access to all areas of the site**
- **Technical specialists conduct additional inspections**



Reactor Oversight Process

Reactor Oversight Framework



as of July 2015



Reactor Oversight Action Matrix Performance Indicators

Performance Indicators



Inspection Findings



as of July 2015





Action Matrix Concept

Licensee Response	Regulatory Response	Degraded Performance	Multiple/Repetitive Degraded Cornerstone	Unacceptable Performance
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Increasing Safety Significance

Increasing NRC Inspection Efforts

Increasing NRC/Licensee Management Involvement

Increasing Regulatory Actions



Millstone Units 2 & 3

2023 Assessment Summary

- Operated safely and in a manner that preserved the public health and safety and protected the environment
- Licensee Response Column
- 9063 hours of inspection and related activities
- Green Performance Indicators
- 19 Green Findings
 - Initiating Events = 2; Mitigating Systems = 11; Security = 6)
- 1 Apparent Violation (Security) – Final Significance Determination is in process



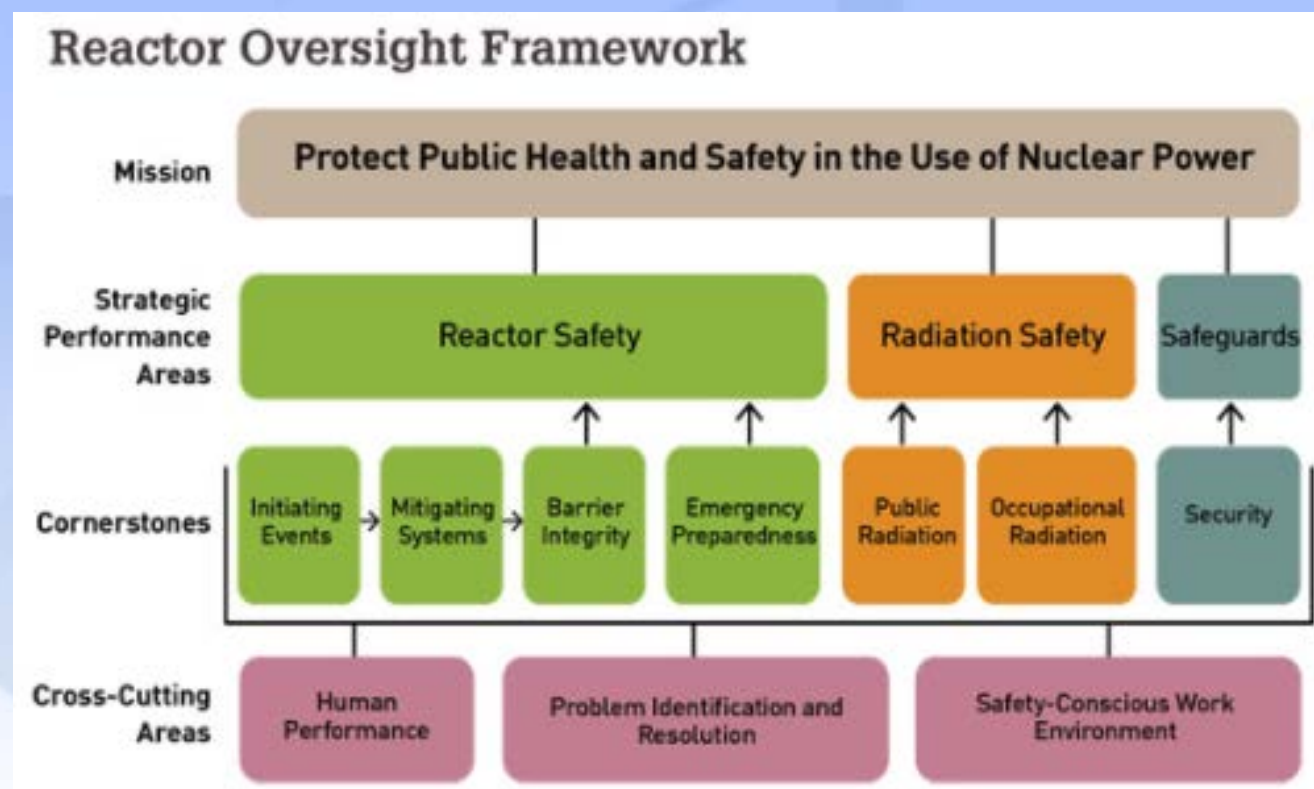
Safety Conscious Work Environment (SCWE)

Cross-Cutting Aspects

- No Human Performance Concerns
- 2022 Problem Identification and Resolution (PI&R) Inspection
 - 2024 Biennial PI&R is in progress
- No SCWE concerns

Allegations

- 3 allegations in 2023 (National Avg. = 3.6)
- Resident inspectors and regional staff are highly accessible and take all allegation matters seriously





Connecticut Nuclear Energy Advisory Council

ITEMS OF INTEREST



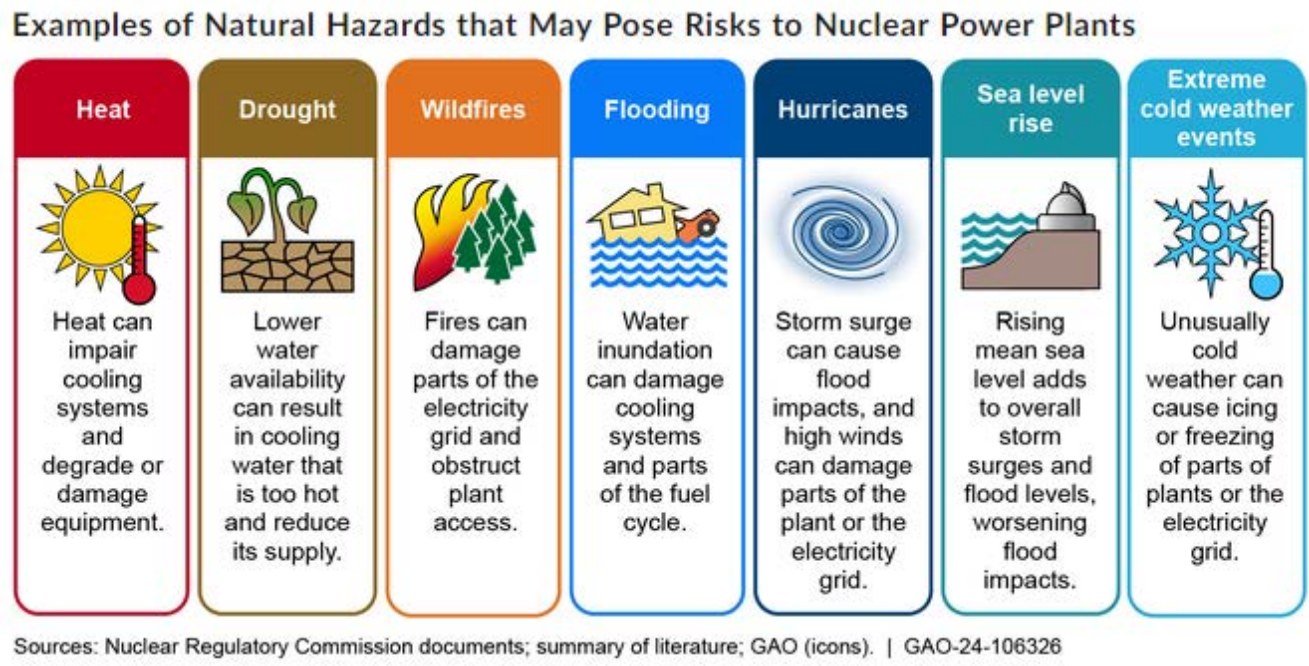
Security & Engineering Inspections

- **Special Inspection November 16, 2023 (ML24010A182)**
 - Choice Letter Issued April 25, 2024 (ML24116A045)
 - Dominion Accepted the Finding and Apparent Violation on May 2, 2024 (ML24123A204)
 - Final significance determination is in progress
- **IP 71111.21M: Comprehensive Engineering Team Inspection (CETI) Changes**
 - CETI is the latest iteration of engineering team inspections that began in 1985 as safety system functional inspections
 - Improvements made over time based on Operating Experience, Industry Events, and PRA
 - IP 71111.21M Incorporates Design Basis Assurance Inspection (TEAM), 50.59 Inspection, and Heat Exchanger / Heat Sink Inspection



GAO Audit on Nuclear Power Plant Climate Resilience

- **GAO-24-106326**
<https://www.gao.gov/products/gao-24-106326>
- **3 recommendations for the NRC**



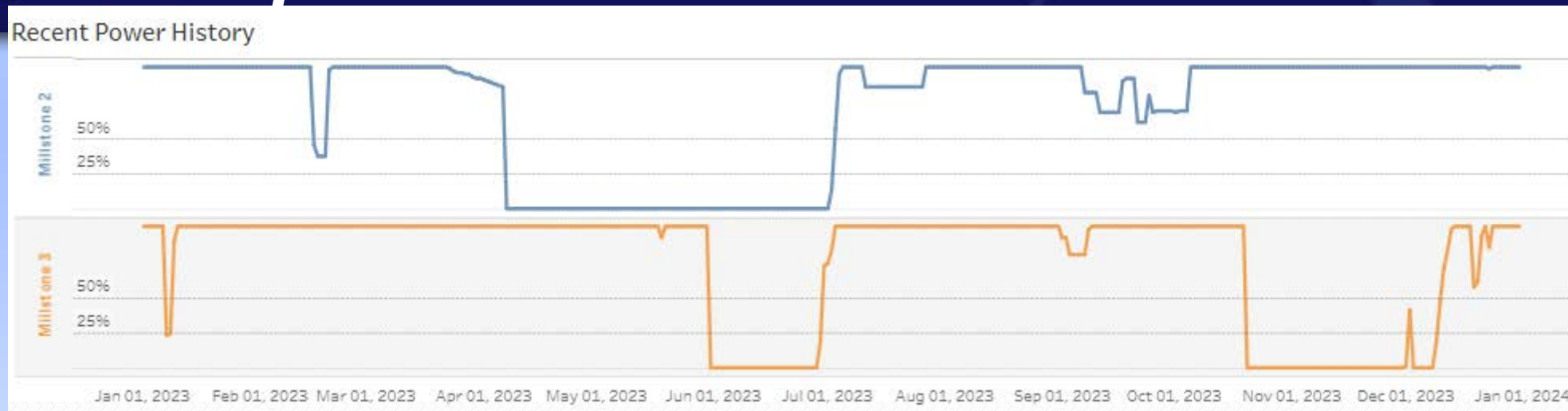


Millstone Finding Summary - 2023

- **13 Green Findings in 2023**
 - 9 NRC-Identified GREEN Findings
 - 4 Self-Revealed GREEN Findings
- **Unit 3 Service Water Through-Wall Leak**
 - NCV 05000423/2023001-01, Through-Wall Leak on Unit 3 Service Water Piping
- **Unit 2 Service Water Pipe Tunnel (Infrequently Accessed Area)**
 - NCV 05000336/2023002-01, Failure to Perform General Condition Monitoring Inspections and System Engineering Walkdowns of Portions of the Safety-Related Service Water System in Accordance with Documented Procedures



Millstone Power History & Unplanned Downpower Performance Indicator - 2023



Date	Unit	Impact – Unplanned Power Change (<i>Power Change > 20%</i>)	Cause
February 14, 2023	2	100% to 34%	Feedwater heater tube leak
May 30, 2023	3	Automatic Trip (Unplanned Scram)	Ground on Main Generator Output Breaker
September 20, 2023	2	92% to 61%	Circ Pump Motor Issues
December 2, 2023	3	56% to 16%	Condenser Tube Leak
December 18, 2023	3	82% to 55%	Circ Water Traveling Screen
January 8, 2024	3	Manual – Controlled Shutdown	Unisolable Main Feedwater Leak



Millstone Licensee Event Reports - 2023

Event Date	Unit	Topic	Status
October 6, 2022	3	Emergency Core Cooling System Gas Void	Closed
May 9, 2023	2	Service Water Pipe Leak	Open – Review In Progress
May 30, 2023	3	Unit 3 Trip	Open – Review In Progress
July 6, 2023	2	Auxiliary Feedwater Check Valve	Closed
September 4, 2023	3	Auxiliary Feedwater Flow Control Valve	Open – Review In Progress
October 11, 2023	3	Reactor Coolant System Temperature Detector	Open – Review In Progress
October 20, 2023	3	Reactor Coolant System Isolation Valve Leakage	Open
November 8, 2023	Common	Security Event	Open
December 10, 2023	3	Oil Leakage from Containment Recirculation System Pump	Open



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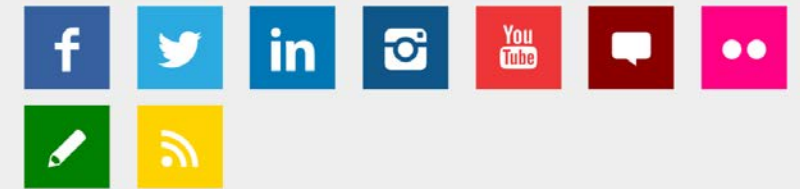
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Annual Assessment Meeting Feedback

NRC FORM 659 U.S. NUCLEAR REGULATORY COMMISSION **APPROVED BY OMB: NO. 3150-0217** **EXPIRES: 02/28/2026**
(02-21-2023)

**NRC PUBLIC MEETING
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Estimated burden per response to comply with this voluntary information request: 15 minutes. The information will be used to assess the effectiveness of NRC staff communications and outreach with the public. Send comments regarding the estimate to the FOIA Library, and Information Collection Office (L-6-3306), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by email to info@nrc.gov and the OMB reviewer at: OMB Office of Information and Regulatory Affairs, (3150-0217), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503, email 0306-0001@omb.eop.gov. The NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless the document requesting or requiring the collection displays a currently valid OMB control number.

Meeting Date: 03/16/2023 Meeting Title: Milestone Annual Assessment Meeting 2022

Thank you for attending this public meeting hosted by the NRC. In order to help us understand your views about this meeting and improve future meetings, please take a couple minutes to answer the questions below.

There are several ways you can provide your feedback:

- 1) Scanning the Quick Response (QR) Code on the back of this form with your smartphone to link directly to our feedback page. If you do not have a QR reader on your mobile device, you can use your App store to access available QR scanning applications suitable for your device.
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- 3) By filling out this hard copy of our "Public Meeting Feedback Form" and providing it to an NRC staff member or mailing it in.

Please fold on the dotted lines with Business Reply side out, tape the bottom, and mail back to the NRC.

Note: You have up to 30 days after the meeting has ended to submit feedback on the public meeting that you've attended. Thank you again for your participation.

Please address the following statements in terms of your experience at the meeting. 1 is "strongly disagree" and 5 is "strongly agree."

	"STRONGLY DISAGREE"	"DISAGREE"	"NEITHER DISAGREE OR AGREE"	"AGREE"	"STRONGLY AGREE"
1. The meeting achieved its stated purpose.	1	2	3	4	5
2. This meeting helped me to understand the topics discussed.	1	2	3	4	5
3. The meeting location, format, starting time, and duration were reasonably convenient.	1	2	3	4	5
4. The meeting facility, room set up, microphones, and visuals used contributed to the success of the meeting.	1	2	3	4	5
5. Attendees, including those participating remotely, were given sufficient opportunity to ask questions or express their views.	1	2	3	4	5
6. Attendees were listened to and understood by NRC staff.	1	2	3	4	5
7. The presentations and explanations given by the NRC staff were understandable, fair and balanced.	1	2	3	4	5
8. I am satisfied overall with the NRC staff who participated in the meeting.	1	2	3	4	5

OPTIONAL

Name _____ Organization _____

Telephone No. _____ E-Mail _____ ☐ Check here if you would like a member of NRC staff to contact you.

NRC 659 (02-21-2023)

How to Submit feedback:

- Scan QR Code
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Meeting number: **20240627**



Questions and Answers





This ends the Meeting

Thank You for Attending