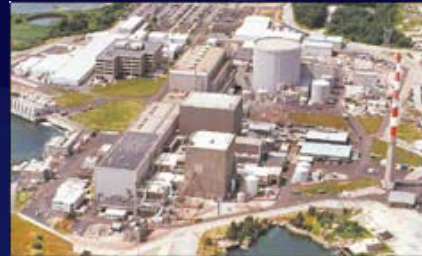




# **Millstone Annual Assessment Meeting**



**Reactor Oversight Process – 2019**

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**Nuclear Regulatory Commission - Region I  
King of Prussia, PA  
April 21, 2020**

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## **Agenda**

- **Opening Remarks – Dan Schroeder**
- **2019 Millstone ROP Assessment Summary – Dan Schroeder**
- **Millstone Senior Resident Inspector Summary – Justin Fuller**
- **Millstone Significant License Changes – Rich Guzman**
- **MSP2 Pressurizer Weld Issues – David Rudland & Jonathan Ortega-Luciano**
- **COVID – 19 Response – Dan Schroeder**
- **ROP Enhancement – Dan Schroeder**
- **NEAC Member Question and Answer – Dan Schroeder**
- **Public Question and Answer – Dan Schroeder**

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## How To Ask a Question



- You can type in your question at any time using the WebEx app. Questions will be addressed during the Question-and-Answer session at the end, - or -



- You can wait until the Question-and-Answer session at the end and ask your question by verbally asking it or typing in your question



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## Opening Remarks



**Daniel Schroeder**  
Branch Chief  
Division of Reactor Projects

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## Millstone 2019 Assessment Summary

- Millstone Units 2 & 3 operated safely and in a manner that preserved the public health and safety and protected the environment
- Millstone Units 2 & 3 remained in the Licensee Response column of the Action Matrix
- 8,777 hours of inspection and related activities
- 9 Green Non-Cited Violations (NCVs)

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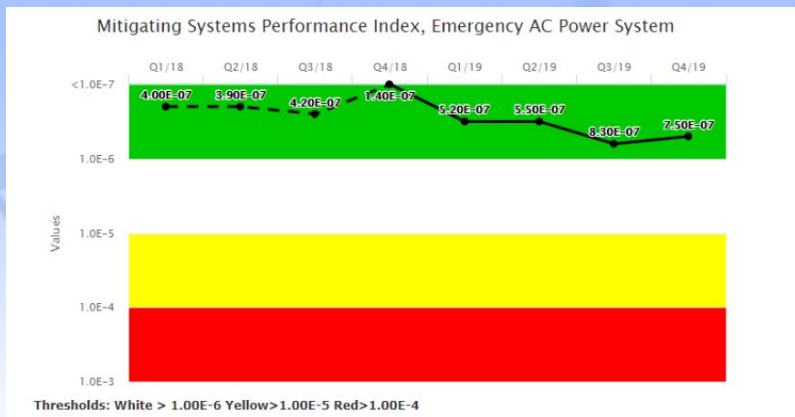
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## Millstone 2019 Assessment Summary (Con't)

- 2 Allegations in 2019
- All Green Performance Indicators
- Unit 3 Emergency AC Power MSPI – Close to Threshold



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## Millstone Senior Resident Inspector Summary



**Justin Fuller**  
Senior Resident Inspector



## Millstone Resident Staff

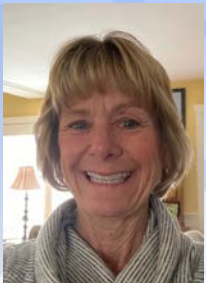
**Chris Highley**  
Resident Inspector



**Eben Allen**  
Resident Inspector



**Amanda Rancourt**  
Program Assistant





## Millstone 2019 Power History

### Unit 2

- April 22, 2019 – Power Reduction
- July 25, 2019 – Power Reduction
- December 27, 2019 – Manual Reactor Trip

### Unit 3

- April 11, 2019 – Scheduled Refueling Outage
- December 17, 2019 – Technical Specification Required Reactor Shutdown



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## Emergency Diesel Generator (EDG) Issues (2019)

- Unit 3: Cooling water leak (ML19224B324)
- Unit 3: Run Failure (ML19312A324)
- Unit 2: Fuel Oil Calculation (ML20044C873)
- Mitigating Systems Performance Index (MSPI) Emergency AC Power



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## Triennial Fire Protection Inspection

### Inspection Report 2019010 (ML19261A879)

- Control of Transient Combustibles
- Inadequate Alternative Shutdown Procedure

**Prevention**  
Minimizing the potential for fires and explosions

**Suppression**  
Rapidly detecting, controlling and extinguishing fires that do occur

**Safe Shutdown**  
Ensuring operators can shut down the reactor safely despite a fire



**Fire Protection Program for Operating Reactors**



## Millstone Significant License Changes



**Richard Guzman**  
NRC Project Manager  
Office of Nuclear Reactor  
Regulation



## Millstone Significant License Changes

- Millstone Unit 2 Primary/Secondary Coolant Activity Limits
- Millstone Unit 2 AC Offsite Source (permanent and one-time allowed outage time changes)
- Emergency Action Level (EAL) Changes



## MP2 Pressurizer Weld Issues

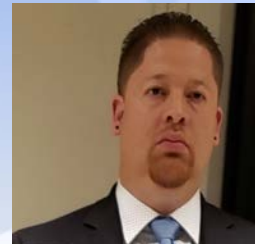
**Kerri Kavanagh**  
Chief, Quality  
Assurance and Vendor  
Inspection Branch



**David Rudland**  
Senior Technical  
Advisor for  
Materials, NRR



**Jonathan Ortega-Luciano**  
Reactor Ops Engineer





## **MP2 Pressurizer Weld Issues**

- **In Sept 2019 and Jan 2020, Framatome identified deviations in the post weld heat treatment of welds in certain large components**
- **These deviations pertain to the control of temperature within the ranges specified in the ASME code**
- **The Millstone pressurizer was mentioned in both Part 21 discussions**



## **MP2 Pressurizer Weld Issues**

- **NRC staff reviewed Framatome's Part 21 evaluation for the first issue and determined there is no immediate safety concern for those basic components supplied to U.S. reactors**
- **A meeting to discuss the second PWHT issue is scheduled for May 19, 2020**
- **NRC staff will participate in a vendor inspection of Framatome Saint-Marcel site in September 2020**





## ***NRC Actions in Response to COVID-19***

- **Monitoring plant activities through inspections and oversight.**
- **Maintaining emergency response capabilities within Regional IRCs and HQ.**
- **Risk-informing “eyes-on” inspections through residents and regional inspections.**



## ***NRC Requirements Related to COVID-19***

- **2010 Regulatory Issue Summary (RIS)**
  - <https://www.nrc.gov/docs/ML1005/ML100539611.pdf>
- **Minimum Shift Staffing**
  - Operators
  - Security
  - Emergency Response Organization
- **NRC Coronavirus Website**  
<https://www.nrc.gov/reading-rm/doc-collections/faq/coronavirus.html>



## Millstone Response to COVID-19

- Asked staff to follow CDC prevention guidelines
- Implemented social distancing guidelines and encouraged telework for many employees
- Asked employees to stay home if they have symptoms

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## ROP Enhancement

**Overall goal – further improve the risk-informed and performance-based aspects of the ROP taking into account NRC Principles of Good Regulation**



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## ROP Enhancement (Con't.)

Phase 1 completed June 2019 (SECY-19-0067/ML19070A036)

– Key impact on inspectors is modest reduction in baseline inspection samples



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## ROP Enhancement (Con't.)

- Decision made Feb 2020 to discontinue project and return to normal work management practices
- Other nearer term work (formerly Phase 2) underway – expect to complete in 2020
  - Focuses on ISFSI inspections, Cross-cutting issues Program and PI&R Inspection Program
  - RP inspection procedures already completed
- Longer term work such as reviewing certain aspects of the PI Program and improving SDP tools will continue as priorities permit
- Web page below being retired when a more general “Current Activities” web page is developed

<https://www.nrc.gov/reactors/operating/oversight/rop-enhancement.html>

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## How to contact the NRC ([www.nrc.gov](http://www.nrc.gov))

 <b>Mailing Address</b> U.S. Nuclear Regulatory Commission Washington, DC 20555-0001  1-800-368-5642, 301-415-7000 TTD: 301-415-5575		<b>Report a Concern</b>	
		24-Hour Ops Ctr for Emergencies 301-816-5100  NRC Waste, Fraud or Abuse 1-800-233-3497 (OIG hotline)	Safety or Security Concern 1-800-695-7403  FAR Contractor Reporting Form
<b>Get General Help or Information</b>			
Human Resources* 301-415-7400	Public Document Room * 1-800-397-4209 Fax: 301-415-3548  NRC Forms*  Web Site Questions or Concerns*		
<b>Provide Comments or Views</b>			
Documents for Comment		Index of All Contact Pages	

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## Office of Public Affairs

<b>Diane Screnci</b> <a href="mailto:Diane.Screnci@nrc.gov">Diane.Screnci@nrc.gov</a> <b>610-337-5330</b>	<b>Neil Sheehan</b> <a href="mailto:Neil.Sheehan@nrc.gov">Neil.Sheehan@nrc.gov</a> <b>610-337-5331</b>
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## NRC Social Media Channels



- Blog: <http://public-blog.nrc-gateway.gov/>
- Flickr: <http://www.flickr.com/photos/nrcgov/>
- Twitter: <https://twitter.com/nrcgov>
- YouTube: <http://www.youtube.com/user/NRCgov>
- RSS: <http://www.nrc.gov/public-involve/listserver.html#rss>



## Annual Assessment Meeting Feedback

**1. Mail in NRC feedback form that will be emailed to all attendees**

- OR -

**2. Scan QR Code on back of form with smart device**



- OR -

**3. Through any computer by going to the Public Meeting Schedule and pressing the “Meeting Feedback” link for this meeting, or pressing the “[...more]” link for this meeting and then pressing the “Meeting Feedback” link on the “Meeting Details” page.**

The form is titled "NRC PUBLIC MEETING FEEDBACK" and includes instructions for attendees. It contains a table for providing feedback on various aspects of the meeting.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1. This meeting followed the stated process.	5	4	3	2	1
2. This meeting helped me to understand the topics discussed.	5	4	3	2	1
3. This meeting included formal, written, and verbal communication.	5	4	3	2	1
4. The meeting staff, team, or other individuals and staff were courteous to the attendees.	5	4	3	2	1
5. Attendees, including those participating remotely, were given sufficient opportunity to ask questions or make comments.	5	4	3	2	1
6. Attendees were listened to and acknowledged by NRC staff.	5	4	3	2	1
7. The presentation and explanation given by the NRC staff were understandable, but not repetitive.	5	4	3	2	1
8. An attendee present with the NRC staff who participated in the meeting.	5	4	3	2	1



# **Question & Answers with members of the Connecticut Nuclear Energy Advisory Council**