



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION I  
475 ALLENDALE RD, STE 102  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

September 8, 2022

Daniel G. Stoddard  
Senior Vice President and Chief Nuclear Officer  
Dominion Energy, Inc.  
Innsbrook Technical Center  
5000 Dominion Blvd.  
Glen Allen, VA 23060-6711

SUBJECT: MILLSTONE POWER STATION, UNITS 2 AND 3 – TRIENNIAL FIRE  
PROTECTION INSPECTION REPORT 05000336/2022011 AND  
05000423/2022011

Dear Daniel Stoddard:

On August 19, 2022, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Millstone Power Station, Units 2 and 3 and discussed the results of this inspection with Michael O'Connor, Site Vice President, and other members of your staff. The results of this inspection are documented in the enclosed report.

No findings or violations of more than minor significance were identified during this inspection.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

Glenn T. Dentel, Chief  
Engineering Branch 2  
Division of Operating Reactor Safety

Docket Nos. 05000336 and 05000423  
License Nos. DPR-65 and NPF-49

Enclosure:  
As stated

cc w/ encl: Distribution via LISTSERV

SUBJECT: MILLSTONE POWER STATION, UNITS 2 AND 3 – TRIENNIAL FIRE PROTECTION INSPECTION REPORT 05000336/2022011 AND 05000423/2022011 DATED SEPTEMBER 8, 2022

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DOCUMENT NAME: <https://usnrc.sharepoint.com/teams/EngineeringBranch2/Shared Documents/Fire Protection/Triennial Fire Protection IRs/Millstone/Millstone TFP IR 2022-011.docx>

**ADAMS ACCESSION NUMBER: ML22251A051**

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**U.S. NUCLEAR REGULATORY COMMISSION  
Inspection Report**

Docket Numbers: 05000336 and 05000423

License Numbers: DPR-65 and NPF-49

Report Numbers: 05000336/2022011 and 05000423/2022011

Enterprise Identifier: I-2022-011-0014

Licensee: Dominion Energy Nuclear Connecticut, Inc.

Facility: Millstone Power Station, Units 2 and 3

Location: Waterford, CT 06385

Inspection Dates: August 1, 2022 to August 19, 2022

Inspectors: L. Dumont, Senior Reactor Inspector  
C. Hobbs, Reactor Inspector  
S. Makor, Reactor Inspector  
E. Miller, Reactor Inspector  
M. Patel, Senior Reactor Inspector

Approved By: Glenn T. Dentel, Chief  
Engineering Branch 2  
Division of Operating Reactor Safety

Enclosure

## **SUMMARY**

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a triennial fire protection inspection at Millstone Power Station, Units 2 and 3, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

### **List of Findings and Violations**

No findings or violations of more than minor significance were identified.

### **Additional Tracking Items**

None.

## INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

## REACTOR SAFETY

### 71111.21N.05 - Fire Protection Team Inspection (FPTI)

#### Structures, Systems, and Components (SSCs) Credited for Fire Prevention, Detection, Suppression, or Post-Fire Safe Shutdown Review (IP Section 03.01) (7 Samples)

The inspectors verified that components and/or systems will function as required to support the credited functions stated for each sample. Additional inspection considerations are located in the fire hazards analysis (FHA) or safe shutdown analysis (SSA).

- (1) Unit 2 - Auxiliary Feed Water System (TDAFW pump)
- (2) Unit 2 - Chemical and Volume Control System (CVCS)
- (3) Unit 2 - Electrical Distribution System – AC Power Cross-Tie from Unit 3
- (4) Unit 3 - Auxiliary Feed Water System (TDAFW pump)
- (5) Unit 3 - Chemical and Volume Control System (CVCS), RCS Letdown
- (6) Unit 3 - Residual Heat Removal System
- (7) Unit 3 - Fire Protection Water Supply System, including Fire Pumps and Tanks and Underground Buried Piping

### Fire Protection Program Administrative Controls (IP Section 03.02) (4 Samples)

The inspectors verified that the selected control or process is implemented in accordance with the licensee's current licensing basis. If applicable, ensure that the licensee's fire protection program (FPP) contains adequate procedures to implement the selected administrative control. Verify that the selected administrative control meets the requirements of all committed industry standards.

- (1) Unit 2 - Combustible Control Program
- (2) Unit 2 - Fire Brigade Training, Drills, and Qualifications
- (3) Unit 3 - Combustible Control Program
- (4) Unit 3 - Fire Brigade Training, Drills, and Qualifications

Fire Protection Program Changes/Modifications (IP Section 03.03) (3 Samples)

The inspectors verified the following:

- a. Changes to the approved FPP do not constitute an adverse effect on the ability to safely shutdown;
- b. The adequacy of the design modification, if applicable;
- c. Assumptions and performance capability stated in the SSA have not been degraded through changes or modifications;
- d. The FPP documents, such as the Updated Final Safety Analysis Report, fire protection report, FHA, and SSA were updated consistent with the FPP or design change; and
- e. Post-fire SSD operating procedures, such as abnormal operating procedures, affected by the modification were updated.

- (1) Unit 2 - Battery Charger Replacement (201A/DC1)
- (2) Unit 3 - Fire Detection System Upgrade - Zone Panel 5
- (3) Unit 3 - Fire Detection System Upgrade - Main

**INSPECTION RESULTS**

No findings were identified.

**EXIT MEETINGS AND DEBRIEFS**

The inspectors verified no proprietary information was retained or documented in this report.

- On August 19, 2022, the inspectors presented the triennial fire protection inspection results to Michael O'Connor, Site Vice President, and other members of the licensee staff.

**DOCUMENTS REVIEWED**

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.21N.05	Corrective Action Documents	1096430		
		1096886		
		1129375		
		1154762		
		1170024		
		1174033		
		1176172		
		1192162		
		1199085		
		1203569		
		1203703		
		1204234		
		1204287		
		1204295		
		1204449		
	Corrective Action Documents Resulting from Inspection	1204812		
		1204841		
		1204885		
		1205026		
		1205334		
		1205672		
		1205713		
		1205739		
		1205739		
		1205758		
		1205762		
		1205762		
		1205861		
1205940				
1205951				
1249200				

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Engineering Changes	DM3-00-0055-05	Replacement of Electric Fire Pump M7-8	02/09/2005
		MP3-17-00149	MP3 Fire Detection System Upgrade	Revision 3
		MPS-18-00188	MP3 Fire Detection System Upgrade -- Zone Panel 5	Revision 0
	Engineering Evaluations	25203-SP-M2-SU-1046	Millstone Unit 2 Appendix R Compliance Report	Revision 1
		ETE-MP-2014-1214	Millstone Unit 3 Branch Technical Position 9.5-1 Compliance Report	Revision 4
		ETE-MP-2021-1035	Millstone Power Station Fire Protection Program Manual	Revision 0
	Miscellaneous		Zone Panel 5 System Upgrade Factory Acceptance Test Procedure	09/24/2019
			2021 Bravo Shift UBSD	09/29/2021
			Live fire training Bravo Shift with EB fire dept. offsite	07/15/2022
		25212-652-005VTM	Vendor Technical Manual - Simplex 4020 Panel	Revision 2
		BKG EOP 3509.1	Basis - Control Room, Cable Spreading Area, or Instrument Rack Room Fire	Revision 27
		TR-MP-TPG-2300	Fire Protection Programs Training Program Guide	Revision 6
		Procedures	AOP 2579A	Fire Procedure for Hot Standby Appendix R Fire Area R-1
	AOP 2579C		Fire Procedure for Hot Standby Appendix R Fire Area R-3	Revision 06
	AOP 2579L		Fire Procedure for Hot Standby Appendix R Fire Area R-13	Revision 08
	AOP 2579P		Fire Procedure for Hot Standby Appendix R Fire Area R-16	Revision 09
	C OP 200.18		Time Critical Action Verification and Validation	Revision 13
	C SP 600.24		Fire Brigade Equipment Inspection	Revision 2
	C SP 600.7		Electric Fire Pump M7-8 Annual Operability Demonstration	Completed 09/04/2021
	C SP 600.9		Diesel Fire Pump M7-7 Annual Operability Demonstration	Completed 07/11/2020
	CM-AA-FPA-100		Fire Protection/Appendix R (Fire Safe Shutdown) Program	Revision 19
CM-AA-FPA-101	Control of Combustible and Flammable Materials		Revision 15	
CM-AA-FPA-102	Fire Protection and Fire Safe Shutdown Review and		Revision 11	



Inspection Procedure	Type	Designation	Description or Title	Revision or Date
			Preparation Process and Design Change Process	
		EOP 2541 Appendix 7	TDAFW Pump Abnormal Startup	Revision 1
		EOP 3509	Fire Emergency	Revision 30
		EOP 3509.1	Control Room, Cable Spreading Area, or Instrument Rack Room Fire	Revision 27
		EOP 3509.2	Aux Building Elevation 24'6", South Floor Area, 43'6" & 66'6" Fire	Revision 8
		MP-PROC-OPS-SFP 10	Fire Prevention Inspections	Revision 09
		RPM 2.3.13	Inspection and Inventory of Self Contained Breathing Apparatus	Revision 2
		SA-AA-115	Conduct of Fire Drills	Revision 6
	Work Orders	53103046471		
		53103117263		
		53203236598		
		53203255322		
		53203255324		
		53203308271		
		53203319891		
		53203336288		
		53203344045		
		53203359004		
		53203359683		
53203359684				
53203359726				