



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

January 5, 2023

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

SUBJECT: MILLSTONE POWER STATION, UNITS 2 AND 3 – CYBER SECURITY  
INSPECTION REPORT 05000336/2022403 AND 05000423/2022403

Dear Daniel Stoddard:

On December 9, 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 William Bessette, Acting Plant Manager 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 – CYBER SECURITY  
INSPECTION REPORT 05000336/2022403 AND 05000423/2022403 DATED  
JANUARY 5, 2023

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DOCUMENT NAME: [https://usnrc.sharepoint.com/teams/EngineeringBranch2/Shared Documents/Cyber Security/\\_Baseline Inspections - OUO\\_SRI/2022/Millstone/MS Cyber Sec IR 2022-403.docx](https://usnrc.sharepoint.com/teams/EngineeringBranch2/Shared Documents/Cyber Security/_Baseline Inspections - OUO_SRI/2022/Millstone/MS Cyber Sec IR 2022-403.docx)

**ADAMS ACCESSION NUMBER: ML23005A148**

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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: 05000336/2022403 and 05000423/2022403

Enterprise Identifier: I-2022-403-0031

Licensee: Dominion Energy Nuclear Connecticut, Inc.

Facility: Millstone Power Station, Units 2 and 3

Location: P.O. Box 128, Waterford, CT 06385

Inspection Dates: December 5, 2022 to December 9, 2022

Inspectors: C. Hobbs, Reactor Inspector, Team Leader  
L. Manning, Information Systems Security Analyst  
M. Patel, Senior Reactor Inspector  
C. Priester, Cyber Security Contractor

Observers: K. Lawson-Jenkins, IT Specialist (NSIR/CSB)  
J. Rady, 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 cyber security 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) 2201, "Security Inspection Program for Commercial Nuclear Power Reactors." 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.

## SAFEGUARDS

### 71130.10 - Cybersecurity

#### Cybersecurity (1 Sample)

- (1) The inspectors reviewed implementation of Millstone's Cyber Security Plan and focused on evaluating changes to the program, critical systems, and critical digital assets. The following IP sections were completed and constitute completion of one sample:
  - 03.01, Review Ongoing Monitoring and Assessment Activities
  - 03.02, Verify Defense-in-Depth Protective Strategies
  - 03.03, Review of Configuration Management Change Control
  - 03.04, Review of Cyber Security Program
  - 03.05, Evaluation of Corrective Actions

In addition to the systems and programs that have been added or modified since the last cyber security inspection, the following systems were selected for inspection:

- System 2721, Plant Security System - Common (Security)
- System 2415, Inadequate Core Cooling System (ICCS) - Unit 2 (Safety Related)
- System 3346C, Station Blackout Diesel (SBO) - Unit 3 (Important to Safety)
- System 3410A, Saturation Monitoring (Incore Thermocouples) - Unit 3 (Safety Related)

## INSPECTION RESULTS

No findings were identified.

## EXIT MEETINGS AND DEBRIEFS

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

- On December 9, 2022, the inspectors presented the cyber security inspection results to William Bessette, Acting Plant Manager and other members of the licensee staff.

## DOCUMENTS REVIEWED

| Inspection Procedure | Type  | Designation                  | Description or Title   | Revision or Date |
|----------------------|---|------------------------------|--|------------------|
| 71130.10             | Corrective Action Documents                           | CR 1210808                   | Unable to Perform Cyber Security Procedure as Written  | 10/20/2022       |
|                      |   | CR 1211802                   | Cyber Security - Data Diode Baseline Configuration not Transmitted to Records  | 11/02/2022       |
|                      |   | CR 1212344                   | Cyber Security - Counterfeit or Fraudulent Cisco Equipment   | 11/08/2022       |
|                      |   | CR 1212376                   | Cyber Security - WOs Needed to walkdown CDAs and Update Gaps in Vulnerability Assessment Tool                        | 11/08/2022       |
|                      |   | CR 1213003                   | Cyber Security - CSIRT Activation  | 11/15/2022       |
|                      | Corrective Action Documents Resulting from Inspection | CR 1214247                   | Cyber Security - SBO Computer Panel Lock Configuration Not Maintained  | 12/01/2022       |
|                      |   | CR 1214551                   | Cyber Security Inspection - Inaccuracy in MP-REPORT-SCA-MP2-2415-Terminal Server                                     | 12/05/2022       |
|                      |   | CR 1214639                   | Cyber Security Inspection - Warehouse Pallet X-Ray Observation   | 12/06/2022       |
|                      |   | CR 1214642                   | Cyber Security Inspection - Cyber Security Kiosk NRC Observation   | 12/06/2022       |
|                      |   | CR 1214671                   | Cyber Security Inspection - SBO Diesel Keys  | 12/07/2022       |
|                      |   | CR 1214748                   | Cyber Security Inspection - CSIRT Drill Observation  | 12/07/2022       |
|                      |   | CR 1214833                   | NRC Identified: Key Issue Not Documented in Key Issue Log  | 12/08/2022       |
|                      |   | CR 1214854                   | Cyber Security Inspection - Password Changes for Personnel Transfers, NRC Observation                                | 12/08/2022       |
|                      |   | CR 1214856                   | Cyber Security Inspection - Alternate Periodicities for Cyber Security Controls, NRC Observation                     | 12/08/2022       |
|                      |   | CR 1214909                   | Cyber Security Inspection - NRC Observation for SCM / Cyber Procedure Improvements                                   | 12/09/2022       |
|                      | Engineering Changes                                   | PDCR 89-015                  | Millstone Unit 3, System No. 3410A, Inadequate Core Cooling System (ICCS) - Software Modification for Broadcast Mode | Revision 0       |
|                      | Engineering Evaluations                               | MP-REPORT-CBF-MP3-3410-ICCMS | Cyber Security Controls Assessment - MP3 ICCMS / RVLMS   | 08/24/2017       |
|                      |   | MP-REPORT-SCA-MP2-2415-      | Cyber Security Controls Assessment - MP2 Inadequate Core Colling Monitoring System Terminal Server                   | 11/03/2017       |

| Inspection Procedure | Type          | Designation                            | Description or Title   | Revision or Date |
|----------------------|---------------|--|--|------------------|
|                      |               | Terminal Server                        |  |                  |
|                      |               | MP-REPORT-SCA-MP3-3346C-Computer-HSI   | Cyber Security Controls Assessment - MP3 SBO Diesel HSI computer                                 | 07/24/2019       |
|                      |               | MP-REPORT-SCA-MP3-3346C-Controller-PLC | Cyber Security Controls Assessment - MP3 SBO Diesel Control Logix PLC                            | 10/20/2017       |
|                      |               | MP-REPORT-SCA-MP3-3410-Computer        | Cyber Security Controls Assessment - MP3 ICCMS / RVLIS   | 09/26/2018       |
|                      |               | MP-REPORT-SCA-MPS-2721-IDS-XFIELD      | Cyber Security Controls Assessment - Millstone Security Computer X-Field Processor               | 07/22/2020       |
|                      |               | MP-REPORT-SCA-MPS-2721-ISS-SWITCH      | Cyber Security Controls Assessment - Millstone Intake Structure Security Network ISS Switch      | 07/15/2021       |
|                      | Miscellaneous | Lesson Plan ICC017C                    | MP3 Operator Training - Inadequate Core Cooling Monitor / Reactor Vessel Level Monitoring System | Revision 4       |
|                      | Procedures    | CM-AA-CYB-10                           | Cyber Security Program   | Revision 3       |
|                      |               | ER-AA-102                              | Preventive Maintenance Program   | Revision 16      |
|                      |               | IT-AA-CYB-101                          | Cyber Security Configuration Control   | Revision 5       |
|                      |               | IT-AA-CYB-102                          | Nuclear Cyber Security Incident Response and Recovery  | Revision 6       |
|                      |               | IT-AA-CYB-103                          | Cyber Security Critical Digital Asset Identification   | Revision 8       |
|                      |               | IT-AA-CYB-106                          | Control and Protection of Portable Media Devices   | Revision 9       |
|                      |               | IT-AA-CYB-108                          | Cyber Security Controls Analysis   | Revision 8       |
|                      |               | IT-AA-CYB-113                          | Cyber Security Identification and Authentication   | Revision 4       |
|                      |               | IT-AA-CYB-118                          | Cyber Security Systems and Services Acquisition  | Revision 2       |
|                      |               | IT-AA-CYB-121                          | Cyber Security Risk Assessment and Patch Management  | Revision 2       |
|                      |               | IT-AA-CYB-125                          | Cyber Security Incident Response Drill   | Revision 1       |
|                      |               | MP-14-OPS-FAP400.KEY                   | Operations Key Control   | Revision 1       |
|                      |               | MS-AA-CYB-201                          | SCM Generation Cyber Security  | Revision 1       |
|                      |               | OP 3353.MB4C                           | Millstone Unit 3 - Main Board 4C Annunciator Response  | Revision 25      |
|                      |               | SY-AA-120-XRAY                         | X-Ray Search and Screening   | Revision 12      |

| Inspection Procedure | Type        | Designation | Description or Title | Revision or Date |
|----------------------|-------------|-------------|----------------------|------------------|
|                      | Work Orders | 53203256609 |                      | 06/17/2021       |
|                      |             | 53203314812 |                      | 01/03/2022       |
|                      |             | 53203320322 |                      | 03/02/2022       |
|                      |             | 53203337632 |                      | 06/30/2022       |
|                      |             | 53203358452 |                      | 11/26/2022       |