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Dominion®

JUL 16 2014

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Serial No. 14-331
MPS Lic/LES R0
Docket No. 50-336
License No. DPR-65

DOMINION NUCLEAR CONNECTICUT, INC.
MILLSTONE POWER STATION UNIT 2
LICENSEE EVENT REPORT 2014-005-00
TRAIN A CONTAINMENT SPRAY INOPERABLE DUE TO GAS VOIDS

This letter forwards Licensee Event Report (LER) 2014-005-00 documenting a condition discovered at Millstone Power Station Unit 2 on May 17, 2014. This LER is being submitted pursuant to 10 CFR 50.73(a)(2)(i)(B) as any operation or condition which was prohibited by the plant's technical specifications.

If you have any questions or require additional information, please contact Mr. William D. Bartron at (860) 444-4301.

Sincerely,

Matt Adams
Plant Manager – Millstone

Attachments: 1

Commitments made in this letter: None

JE22
NRR

cc: U.S. Nuclear Regulatory Commission
Region I
2100 Renaissance Blvd, Suite 100
King of Prussia, PA 19406-2713

M. C Thadani
Sr. Project Manager - Millstone Power Station
U.S. Nuclear Regulatory Commission
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11555 Rockville Pike
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Rockville, MD 20852-2738

NRC Senior Resident Inspector
Millstone Power Station

ATTACHMENT

LICENSEE EVENT REPORT 2014-005-00
TRAIN A CONTAINMENT SPRAY INOPERABLE DUE TO GAS VOIDS

MILLSTONE POWER STATION UNIT 2
DOMINION NUCLEAR CONNECTICUT, INC.

NRC FORM 366 (02-2014) U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0104 EXPIRES: 01/31/2017

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Privacy and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE EVENT REPORT (LER)

(See Page 2 for required number of digits/characters for each block)

1. FACILITY NAME	2. DOCKET NUMBER	3. PAGE
Millstone Power Station – Unit 2	05000336	1 OF 3

4. TITLE

Train "A" Containment Spray Inoperable Due to Gas Voids

5. EVENT DATE			6. LER NUMBER			7. REPORT DATE			8. OTHER FACILITIES INVOLVED	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO.	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
										05000
05	17	2014	2014	- 005	- 00	07	16	2014	FACILITY NAME	DOCKET NUMBER 05000

9. OPERATING MODE	11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: *(Check all that apply)*			
3	☐ 20.2201(b)	☐ 20.2203(a)(3)(i)	☐ 50.73(a)(2)(i)(C)	☐ 50.73(a)(2)(vii)
	☐ 20.2201(d)	☐ 20.2203(a)(3)(ii)	☐ 50.73(a)(2)(ii)(A)	☐ 50.73(a)(2)(viii)(A)
	☐ 20.2203(a)(1)	☐ 20.2203(a)(4)	☐ 50.73(a)(2)(ii)(B)	☐ 50.73(a)(2)(viii)(B)
	☐ 20.2203(a)(2)(i)	☐ 50.36(c)(1)(i)(A)	☐ 50.73(a)(2)(iii)	☐ 50.73(a)(2)(ix)(A)
10. POWER LEVEL	☐ 20.2203(a)(2)(ii)	☐ 50.36(c)(1)(ii)(A)	☐ 50.73(a)(2)(iv)(A)	☐ 50.73(a)(2)(x)
	☐ 20.2203(a)(2)(iii)	☐ 50.36(c)(2)	☐ 50.73(a)(2)(v)(A)	☐ 73.71(a)(4)
000	☐ 20.2203(a)(2)(iv)	☐ 50.46(a)(3)(ii)	☐ 50.73(a)(2)(v)(B)	☐ 73.71(a)(5)
	☐ 20.2203(a)(2)(v)	☐ 50.73(a)(2)(i)(A)	☐ 50.73(a)(2)(v)(C)	☐ OTHER
	☐ 20.2203(a)(2)(vi)	☒ 50.73(a)(2)(i)(B)	☐ 50.73(a)(2)(v)(D)	Specify in Abstract below or in NRC Form 366A

12. LICENSEE CONTACT FOR THIS LER

LICENSEE CONTACT	TELEPHONE NUMBER *(Include Area Code)*
William D. Bartron, Supervisor Nuclear Station Licensing	860-444-4301

13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT

CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX

14. SUPPLEMENTAL REPORT EXPECTED	15. EXPECTED SUBMISSION DATE	MONTH	DAY	YEAR
☐ YES *(If yes, complete 15. EXPECTED SUBMISSION DATE)* ☒ NO				

ABSTRACT *(Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)*

At 1933 on May 16, 2014 while in MODE 3, Millstone Power Station Unit 2 (MPS2) exceeded the Limiting Condition for Operation (LCO) of plant Technical Specification (TS) 3.6.2.1 'Containment Spray System' Action a.1 for an inoperable containment spray pump. The 'A' containment spray (CS) pump was declared inoperable at 0018 on May 17, 2014, the date of discovery, following completion of surveillance testing to determine the presence of gas voids. However, the gas was introduced earlier during the refueling outage and the TS LCO went into effect upon first entry into MODE 3 greater than 1750 psia on May 13, 2014, at 1933. TS 3.6.2.1 Action a.1 requires that the pump be restored to OPERABLE status within 72 hours or be in at least HOT STANDBY within the next 6 hours and reduce pressurizer pressure to less than 1750 psia within the following 6 hours. MPS2 had been in a MODE where the CS system was required to be OPERABLE for 70.5 hours prior to completion of the testing. The gases were successfully removed by venting and the system was restored to OPERABLE status at 1221 on May 17, 2014.

This condition is being reported as any operation or condition which was prohibited by the plant's technical specifications in accordance with 10 CFR 50.73 (a)(2)(i)(B). The condition was caused by not adequately venting the CS system and delays in communicating the surveillance results, combined with a need to schedule performance of the surveillance testing earlier in a refueling outage. Corrective actions planned will improve scheduling of the testing and will result in more timely communications of the results from completed testing.

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NARRATIVE

1. EVENT DESCRIPTION

At 1933 on May 16, 2014 while in MODE 3, Millstone Power Station Unit 2 (MPS2) exceeded the Limiting Condition for Operation (LCO) of plant Technical Specification (TS) 3.6.2.1 "Containment Spray System" Action a.1 for an inoperable containment spray pump. The 'A' containment spray (CS) pump was declared inoperable at 0018 on May 17, 2014, the date of discovery, following completion of surveillance testing to determine the presence of gas voids. However, the gas found was introduced earlier during the refueling outage. The TS LCO went into effect upon entry into MODE 3 greater than 1750 psia on May 13, 2014, at 1933. TS 3.6.2.1 Action a.1 requires that the pump be restored to OPERABLE status within 72 hours or be in at least HOT STANDBY within the next 6 hours and reduce pressurizer pressure to less than 1750 psia within the following 6 hours. MPS2 had been in a MODE where the CS system was required to be OPERABLE for approximately 70.5 hours prior to completion of the testing. The gases were successfully removed by venting and the system was restored to OPERABLE status at 1221 on May 17, 2014, 88 hours after entering an applicable MODE for TS 3.6.2.1.

This condition is being reported as any operation or condition which was prohibited by the plant's technical specifications in accordance with 10 CFR 50.73 (a)(2)(i)(B).

2. CAUSE

Exceeding the LCO time limit while removing gases was due to not adequately venting the CS system following maintenance performed during the outage and delays in communicating the surveillance results to Operations, combined with a need to schedule performance of the surveillance testing earlier in a refueling outage.

3. ASSESSMENT OF SAFETY CONSEQUENCES

The containment spray (CS) system is composed of two redundant independent trains. The CS system in conjunction with the containment air recirculation and cooling system provides sufficient heat removal capability to limit the post-accident containment pressure and structural temperature below the design values.

The safety consequences of this condition was determined to be low. The "A" Train of the CS system was considered to be unavailable because the amount of gas found during the ultrasonic testing exceeded engineering guidance for system operability. The "B" Train of the CS system was confirmed to be free of voids, and remained available to perform the safety function, if needed. In addition, both trains of containment air recirculation and cooling systems were available during the period to perform the safety function, if necessary. The period of unavailability of the "A" Train of the containment spray system was of short duration, approximately 88 hours, and occurred during MODE 3, while the plant was shutdown.

4. CORRECTIVE ACTION

Corrective actions planned will improve scheduling of system testing for gas voids after outages, and will result in more timely communications of the results from completed testing to Operations.

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NARRATIVE

4. CORRECTIVE ACTION (Continued)

Additional corrective actions are being taken in accordance with the station's corrective action program.

5. PREVIOUS OCCURRENCES

There have been no previous occurrences.

6. Energy Industry Identification System (EIIS) codes

- Containment Spray System – BE
- Pump – P