

Dominion Nuclear Connecticut, Inc.
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APR 15 2013

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

Serial No. 13-137
MPS Lic/LES R0
Docket No. 50-423
License No. NPF-49

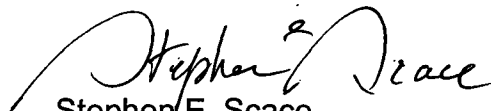
DOMINION NUCLEAR CONNECTICUT, INC.
MILLSTONE POWER STATION UNIT 3
LICENSEE EVENT REPORT 2013-001-00
IMPROPERLY SECURED ENCLOSURE CAUSED INOPERABILITY OF STEAM
GENERATOR PRESSURE TRANSMITTER

This letter forwards Licensee Event Report (LER) 2013-001-00 documenting a condition discovered at Millstone Power Station Unit 3 on February 19, 2013.

This LER is being submitted pursuant to 10 CFR 50.73(a)(2)(i)(B), 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,


Stephen E. Scace
Site Vice President – 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

J. S. Kim
Project Manager - Millstone Power Station
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Rockville, MD 20852-2738

NRC Senior Resident Inspector
Millstone Power Station

ATTACHMENT

LICENSEE EVENT REPORT 2013-001-00
IMPROPERLY SECURED
ENCLOSURE CAUSED INOPERABILITY OF
STEAM GENERATOR PRESSURE TRANSMITTER

MILLSTONE POWER STATION UNIT 3
DOMINION NUCLEAR CONNECTICUT, INC.

NRC FORM 366 U.S. NUCLEAR REGULATORY COMMISSION (10/2010)		APPROVED BY OMB: NO. 3150-0104		EXPIRES: 10/31/2013																																					
LICENSEE EVENT REPORT (LER) (See reverse for required number of digits/characters for each block)																																									
1. FACILITY NAME Millstone Power Station - Unit 3			2. DOCKET NUMBER 05000423		3. PAGE 1 OF 3																																				
4. TITLE Improperly Secured Enclosure Caused Inoperability of Steam Generator Pressure Transmitter																																									
5. EVENT DATE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:33%;">MONTH</th> <th style="width:33%;">DAY</th> <th style="width:33%;">YEAR</th> </tr> <tr> <td style="text-align: center;">02</td> <td style="text-align: center;">19</td> <td style="text-align: center;">2013</td> </tr> </table>		MONTH	DAY	YEAR	02	19	2013	6. LER NUMBER <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:33%;">YEAR</th> <th style="width:33%;">SEQUENTIAL NUMBER</th> <th style="width:33%;">REV NO.</th> </tr> <tr> <td style="text-align: center;">2013</td> <td style="text-align: center;">001</td> <td style="text-align: center;">00</td> </tr> </table>		YEAR	SEQUENTIAL NUMBER	REV NO.	2013	001	00	7. REPORT DATE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:33%;">MONTH</th> <th style="width:33%;">DAY</th> <th style="width:33%;">YEAR</th> </tr> <tr> <td style="text-align: center;">04</td> <td style="text-align: center;">15</td> <td style="text-align: center;">2013</td> </tr> </table>		MONTH	DAY	YEAR	04	15	2013																		
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FACILITY NAME William D. Bartron, Supervisor Nuclear Station Licensing			TELEPHONE NUMBER (Include Area Code) 860-444-4301																																						
13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT																																									
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ABSTRACT <i>(Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)</i> <p>On February 15, 2013, with Millstone Power Station Unit 3 operating in MODE 1 at 100 percent power, operators discovered that the insulating cover installed over 3MSS*PT526, "B" Steam Generator Pressure Transmitter (SGPT) Channel 3, was not properly secured. When found, it was incorrectly assessed as not impacting equipment operability. However, on February 19, 2013, upon further review by the Electrical Equipment Qualification program engineer, it was determined that the SGPT would not be adequately protected from a postulated high energy line break (HELB). Therefore, 3MSS*PT526 was declared inoperable per Technical Specification (TS) 3.3.2, Engineered Safety Features Instrumentation, on February 19, 2013. Information exists that 3MSS*PT526 was inoperable on February 15, 2013, when the problem was initially discovered. Since the condition existed for longer than allowed by TS 3.3.2, Action 20 (i.e., for more than six hours without the bistable being placed in trip), this is a reportable condition per 10 CFR 50.73 (a)(2)(i)(B) as an event or condition which was prohibited by the plant's Technical Specifications. Lack of awareness of the purpose of the enclosure boundary combined with the lack of clear labeling identifying the HELB enclosure resulted in a delay in declaring the equipment inoperable. Operations created and installed a new label for the insulating box around each SGPT clearly indicating the box is a HELB barrier and is part of the environmental qualification boundary.</p>																																									

**LICENSEE EVENT REPORT (LER)
CONTINUATION SHEET**

1. FACILITY NAME	2. DOCKET	6. LER NUMBER			3. PAGE
Millstone Power Station - Unit 3	05000423	YEAR	SEQUENTIAL NUMBER	REV NO.	2 OF 3
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NARRATIVE

1. EVENT DESCRIPTION

On February 15, 2013, at 2313 hours, with Millstone Power Station Unit 3 (MPS3) operating in Mode 1 at 100 percent power, operators discovered that the insulating cover installed over 3MSS*PT526, "B" Steam Generator [SG] Pressure Transmitter (SGPT) [MON] Channel 3, was not properly secured. When the problem was found, it was incorrectly assessed as not impacting equipment operability. However, on February 19, 2013, upon further review by the Electrical Equipment Qualification (EEQ) program engineer, it was determined that without the insulation box fully secured in place, the transmitter would not be adequately protected from a postulated high energy line break (HELB). Therefore, 3MSS*PT526 was declared inoperable per Technical Specification (TS) 3.3.2, Engineered Safety Features Actuation System Instrumentation, on February 19, 2013, at 1122 hours.

Information exists that 3MSS*PT526 was inoperable on February 15, 2013, when the problem was initially discovered. Since the condition existed for longer than allowed by TS 3.3.2, Action 20 (i.e., for more than six hours without the bistable being placed in trip), this is a reportable condition per 10 CFR 50.73 (a)(2)(i)(B) as an event or condition which was prohibited by the plant's Technical Specifications.

Operations subsequently closed and secured the insulation box to restore the correct Equipment Qualification (EQ) configuration on February 19, 2013, at 12:04, and the TS Action Statement was exited at 1310 hours. Because 3MSS*PT526 was restored to an operable condition less than six hours after it was declared inoperable, the bistable was not required to be placed in the trip condition as required by TS 3.3.2, Action 20. The insulation box limits the internal transmitter box ambient temperature to a peak temperature of 293 degrees F during a postulated HELB per Calculation US(B)-330, Revision 6 and Equipment Qualification Report (EQR) 134-1-4. Without the insulation box completely enclosing the transmitter, equipment qualification was not maintained because the maximum allowed qualification temperature of 318 degrees F would be exceeded during a HELB, and therefore the instrument operability could not be assured.

After the identification of the improperly secured enclosure on 3MSS*PT526, the other 11 MPS3 SGPTs were walked down and inspected on February 19, 2013. The inspections determined the enclosures were closed and intact, and therefore were in a condition such that the pressure transmitters were OPERABLE.

2. CAUSE

Lack of awareness of the purpose of the enclosure boundary combined with the lack of clear labeling identifying the HELB enclosure resulted in a delay in declaring the equipment inoperable.

3. ASSESSMENT OF SAFETY CONSEQUENCES

The twelve steam generator pressure transmitters (SGPTs) provide input to the main steam line isolation (MSLI) signal that closes the fast acting main steam isolation valves (MSIVs) located on each main steam line downstream of the four steam generators (SGs). Three transmitters are provided for each of the steam generators. Sustained uncontrolled steam release from more than one SG is prevented following a postulated steam system piping failure (SLB) by the automatic trip of the MSIVs.

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NARRATIVE

For a SLB inside containment, MSLI is activated by either high containment pressure or low steam line pressure, or manual operator action from the control room. For a SLB outside containment, manual operator action from the control room would be taken to isolate the SG if the SGPTs failed to automatically provide inputs for MSLI.

In this instance, one of three transmitters provided for activating the MSLI for a steam generator was found inoperable. With one SGPT inoperable, the other two operable transmitters can perform the safety function if needed. The two operable SGPTs would have functioned to support identifying and isolating a faulted steam generator due to either a steam line break or a feed line break in the main steam valve building. Therefore no loss of safety function is assumed. Regarding long term monitoring, the remaining operable SGPTs would have provided their post accident monitoring function for the required mission time, i.e., 30 days. In addition, there are alternate indications which could have been used, including SG level, auxiliary feedwater flow and reactor coolant system temperature if one or more SGPTs were to fail. Therefore, the safety consequences for this event are low.

4. CORRECTIVE ACTION

Operations created and installed a new label for the insulating box around each of the Steam Generator Pressure transmitters that indicates the box is a HELB barrier and is part of the EQ boundary for the transmitter.

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

5. PREVIOUS OCCURRENCES

MPS3 LER 2012-001-00, Main Steam Line Pressure Transmitters Declared Inoperable, reported a condition where the MPS3 SGPTs were declared inoperable because gaskets in Litton-Veam connector seals were not replaced after maintenance was performed in January 2012.

Energy Industry Identification System (EIIIS) codes are identified in the text as [XX].