



## Facsimile

Emerson Automation Solutions  
Rosemount Nuclear and Subsea  
8200 Market Blvd  
Chanhassen, MN 55317 USA

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To: Operation Desk

cc:

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Company: NRC

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Date:

No. of pages (*including cover sheet*): 4

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From: Nathan Schukei

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Subject/Comments: Notification under 10 CFR  
Part 21 for Rosemount 3153N Series Pressure  
Transmitter with Rosemount 3159 Remote  
Seals with the LG1 option



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01 November 2022

U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001  
Attn: Document Control Desk

**Re:Notification under 10 CFR Part 21 for Rosemount 3153N Series Pressure Transmitters with Rosemount 3159 Remote Seals with the LG1 Option**

Pursuant to 10 CFR Part 21, section 21.21(a)(2), Rosemount Nuclear Instruments, Inc. (RNII) is writing to provide notification of a deviation in bolts provided with the LG1 option on Rosemount 3159 remote seals. Bolts provided with the LG1 option were delivered without the zinc plating required per Rosemount Nuclear Instruments Report D2019023 Rev B *Technical Authorization for the LG1 Option Code*.

**1.0 Name and address of the individual providing the information:**

Mr. Gerard Hanson  
Vice President & General Manager  
Rosemount Nuclear Instruments, Inc.  
8200 Market Blvd  
Chanhassen, MN 55317

**2.0 Identification of Items supplied:**

Rosemount 3153N Series Pressure Transmitters with Rosemount 3159 Remote Seals with the LG1 option, which were supplied to Constellation Energy's Dresden Generating Station and LaSalle County Nuclear Generating Station during a period from December 2019 to June 2022. See Appendix A for a list of affected serial numbers.

Rosemount 3153N Series Pressure Transmitters with Rosemount 3159 Remote Seals with the LG1 option are a subset of the Rosemount 3150 Series offering. All other Rosemount 3150 Series Pressure Transmitters supplied with Rosemount 3159 Remote Seals are not affected by this notification.

**3.0 Identification of firm supplying the item:**

Rosemount Nuclear Instruments, Inc.  
8200 Market Blvd  
Chanhassen, MN 55317

**4.0 Nature of the failure and potential safety hazard:**

The LG1 remote seal option supplies a modified Rosemount 3159 Remote Seal upper housing and hardware that is compatible with the legacy Rosemount 1159 Remote Seal lower housing. The remote seal bolts on units supplied with this option are specified to be SAE J429 Grade 8 with zinc-plating per ASTM F1941 5CN for corrosion resistance. RNII identified a single manufacturing lot of LG1 bolts lacked the required zinc-plating.

The SAE J429 Grade 8 bolts may experience corrosion without zinc-plating when exposed to prolonged environments with high humidity or with direct contact with aqueous solutions. Sufficient corrosion may result in a reduction of pressure boundary integrity.

As a result of the above information, RNII determined on October 25<sup>th</sup>, 2022 that a notification to affected licensees was warranted.

**5.0 The corrective action which has been taken; the name of the individual or organization responsible for that action; and the length of time taken to complete that action:**

RNII has quarantined all inventory of non-zinc-plated bolts. Further RNII has identified all Rosemount 3153N Series Pressure Transmitters with Rosemount 3159 Remote Seals with the LG1 option that were shipped with the affected bolts.

Non-conforming bolts were returned to the vendor to be zinc-plated and have subsequently been returned to RNII.

Orders in RNII's backlog have been inspected and confirmed to be equipped with the correct SAE J429 Grade 8 bolts with zinc-plating per ASTM F1941 5CN.

Mr. Gerard Hanson, VP&GM of Rosemount Nuclear Instruments, Inc. is responsible for any further factory action related to this issue.

**6.0 Any advice related to the potential failure of the item:**

The affected Rosemount 3153N Series Pressure Transmitters equipped with Rosemount 3159 Remote Seals with the LG1 option were supplied during a period from December 2019 to June 2022. RNII recommends end users evaluate the significance of this notice to their specific pressure transmitter applications and environments. RNII further recommends that end users replace the un-plated bolts in susceptible applications to mitigate the potential for corrosion induced failure over time.

Rosemount Nuclear Instruments, Inc. is committed to the nuclear industry and we assure you that we are dedicated to the supply of high-quality products and services to our customers. If there are any questions, or for customer inquiries for obtaining replacement bolts please contact Rosemount Nuclear Instruments Inc at 952-949-5200 (RNII.info@emerson.com) or Nathan Schukei (Customer Care Manager) at 952-949-5213.

Sincerely,



Gerard Hanson  
Vice President & General Manager  
Rosemount Nuclear Instruments, Inc.

Appendix A: 10 CFR PART 21 Notification - 31 October 2022					
CONSTELLATION ENERGY GEN LLC / EXELON GENERATION CO LLC					
Purchase Order Number	Model Number	Serial Number	Ship Date	Site	RNII Sales Order
00690790	3153ND4R2S2A7 / 3159B025P2B1F1K00LG1	19CHNQ0020986	12-Dec-19	LaSalle County Nuclear Generating Station	5546136
00690790	3153ND4R2S2A7 / 3159B025P2B1F1K00LG1	19CHNQ0020987	12-Dec-19	LaSalle County Nuclear Generating Station	5546136
00690790	3153ND4R2S2A7 / 3159B025P2B1F1K00LG1	19CHNQ0020988	12-Dec-19	LaSalle County Nuclear Generating Station	5546136
00690790	3153ND2R2S1A7 / 3159H015P2B1F1K13LG1	19CHNQ0020990	12-Dec-19	LaSalle County Nuclear Generating Station	5546136
00690790	3153ND2R2S1A7 / 3159H015P2B1F1K13LG1	19CHNQ0020991	12-Dec-19	LaSalle County Nuclear Generating Station	5546136
00690790	3153ND2R2S1A7 / 3159H015P2B1F1K13LG1	19CHNQ0020992	12-Dec-19	LaSalle County Nuclear Generating Station	5546136
00690790	3153ND2R2S1A7 / 3159H015P2B1F1K13LG1	19CHNQ0020993	12-Dec-19	LaSalle County Nuclear Generating Station	5546136
00690790	3153ND2R2S1A7 / 3159H015P2B1F1K13LG1	19CHNQ0020994	12-Dec-19	LaSalle County Nuclear Generating Station	5546136
00690790	3153ND2R2S1A7 / 3159H015P2B1F1K13LG1	19CHNQ0020995	12-Dec-19	LaSalle County Nuclear Generating Station	5546136
00690790	3153ND2R2S1A7 / 3159H015P2B1F1K13LG1	19CHNQ0020996	12-Dec-19	LaSalle County Nuclear Generating Station	5546136
00690790	3153ND2R2S1A7 / 3159H015P2B1F1K13LG1	19CHNQ0020997	12-Dec-19	LaSalle County Nuclear Generating Station	5546136
00690790	3153ND2R2S1A7 / 3159H015P2B1F1K13LG1	19CHNQ0020998	12-Dec-19	LaSalle County Nuclear Generating Station	5546136
00722631	3153ND2R2S2A7 / 3159B010P2B1F1K00LG1	20CHNQ0021948	13-Apr-20	Dresden Generating Station	5930404
1331706	3153ND2R2S2A7 / 3159B010P1B1F1K00LG1	21CHNQ0024620	10-Sep-21	Dresden Generating Station	6382968
1331706	3153ND2R2S2A7 / 3159B010P1B1F1K00LG1	21CHNQ0024621	10-Sep-21	Dresden Generating Station	6382968
1331706	3153ND2R2S2A7 / 3159B010P1B1F1K00LG1	21CHNQ0024622	10-Sep-21	Dresden Generating Station	6382968
1331706	3153ND2R2S2A7 / 3159B010P1B1F1K00LG1	21CHNQ0024623	10-Sep-21	Dresden Generating Station	6382968
00076959 REL 00614	3153ND2R2S2A7 / 3159B010P1B1F1K00LG1	22CHNQ0025704	6-Jun-22	Dresden Generating Station	6582776
00076959 REL 00614	3153ND2R2S2A7 / 3159B010P1B1F1K00LG1	22CHNQ0025705	6-Jun-22	Dresden Generating Station	6582776
00076959 REL 00614	3153ND2R2S2A7 / 3159B010P1B1F1K00LG1	22CHNQ0025706	6-Jun-22	Dresden Generating Station	6582776
00076959 REL 00614	3153ND2R2S2A7 / 3159B010P1B1F1K00LG1	22CHNQ0025707	6-Jun-22	Dresden Generating Station	6582776