



Rosemount Nuclear Instruments, Inc.  
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25 November 2025

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

**Re: Notification under 10 CFR Part 21 for Rosemount Model 3154 Pressure Transmitters with Select Wire Wound Resistor Lots**

Pursuant to 10 CFR Part 21, section 21.21, Rosemount Nuclear Instruments, Inc. (RNII) is writing to inform you that certain Rosemount Model 3154 pressure transmitters have exhibited a higher field return rate as a result of electronics assembly failure caused by an open circuit condition in certain precision wire wound resistors.

Rosemount Nuclear Instruments, Inc., does not have complete information relating to specific plant applications and therefore cannot determine the potential effects of this condition on plant operation.

**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:**

This notification pertains to certain Model 3154 Pressure Transmitters or spare electronics assemblies manufactured between November 2015 and November 2022, listed in Appendix A.

This notification only pertains to Model 3154 Pressure Transmitters or spare electronics assemblies listed in Appendix A. All other Rosemount pressure transmitters are excluded from 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 safety function of the Rosemount Model 3154 pressure transmitter is to measure gage, absolute or differential pressure and transmit a proportional electrical signal within specified accuracy limits prior to, during, and following completion of the postulated design basis events.

RNII field return data indicates certain Rosemount Model 3154 pressure transmitters have exhibited a higher field return rate as a result of electronics assembly failure caused by an open circuit condition in certain precision wire wound resistors. Failure analysis determined the open circuit condition is a result of corrosion of the resistive wire element which leads to an annunciated off-scale low failure of the 4-20mA analog output signal (i.e. analog output failing below 4mA). In some cases, the off-scale

low failure may be preceded by observable erratic behavior of the analog output and/or analog output drift outside of published specifications. If the analog output is erratic or drifting outside of published specifications, the transmitter output should be considered unreliable.

Through third party testing of field failures and consultation with the wire wound resistor manufacturer, it was determined that the failures are a result of premature corrosion of the resistive wire element, which can lead to resistance drift and an electrically open condition. RNII investigation has determined the higher failure rate is associated with certain lots of wire wound resistors.

Failure rates within the listed population of Model 3154 remain very low and most users have not experienced this failure mode. Less than 0.65% of Model 3154's within the scope of this notification experienced this failure mode.

As of this notice, 70% of Model 3154 wire wound resistor failures occurred at two reactor sites, suggesting higher failure rates may be experienced at individual locations. This notification aims to broaden awareness of this potential failure mode.

**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 revised the design of all Rosemount 3150 series nuclear qualified pressure transmitters to utilize higher reliability precision resistor technologies. This revision is fully qualified and implemented for all Rosemount 3150 series models including, but not limited to, Rosemount Model 3154.

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:**

- RNII recommends that users review the application where any of the Model 3154 pressure transmitters listed in Appendix A are used to determine any safety consideration in the operation of the plant.
- RNII recommends reporting any observed failures in the Model 3154 pressure transmitters listed in Appendix A to RNII at the contact information below.
  - Model 3154 pressure transmitters exhibiting failure symptoms can be returned to RNII for repair.
  - Alternatively, electronics assembly replacement can be conducted by users on site. Replacement instructions are provided in Rosemount 3150 Series Reference Manual, 00809-0100-4835 Section 5, and spare electronics assembly information is provided in Section 6.
  - As indicated in Rosemount 3150 Series Reference Manual, 00809-0100-4835 Section 6, it is recommended as a general practice that users maintain 1 spare electronics assembly for every 25 Rosemount 3150 series pressure transmitters on site.
- RNII provides the following information to consider when reviewing applications:

- As of November 24, 2025, less than 0.65% of Model 3154's within the scope of this notification experienced this failure mode. 70% of reported failures occurred at two reactor sites.
- Rosemount Model 3154 pressure transmitters within the scope of this notification are considered fully functional unless failure symptoms consistent with the description in paragraph 4.0 are identified.

Rosemount Nuclear Instruments, Inc. is committed to the nuclear industry and 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 electronics assemblies please contact Rosemount Nuclear Instruments Inc at 952-949-5200 (RNII.info@emerson.com) or the appropriate world area support personnel listed below.

United States of America

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+19529495231

Sincerely,



Gerard Hanson

Vice President & General Manager

Rosemount Nuclear Instruments, Inc.

## Impacted Utilities

Site	Utility	Mail Address
Callaway	Ameren Corp.	8315 County Road 459 Steedman, MO 65077-1285
DC Cook	American Electric Power Co. Inc.	American Electric Power 500 Circle Drive, Buchanan, Michigan 49107-1395
Palo Verde	Arizona Public Service Co.	APS PO BOX 52034 Phoenix, AZ 85072-2034
Millstone North Anna Surry VC Summer	Dominion Energy, Inc.	DOMINION ENERGY, INC. INNSBROOK TECHNICAL CENTER 5000 DOMINION BOULEVARD GLEN ALLEN, VA 23060
Catawba Harris Robinson Mcguire Oconee	Duke Energy	Duke Energy PO Box 1006 Charlotte, NC 28201-1004
Davis-Besse	Energy Harbor	FENOC 5501 N. State Route 2 Oak Harbor, OH 43449-976
Beaver Valley	Energy Harbor	Beaver Valley Power Station P.O. Box 4 Shippingport, PA 15077
Columbia	Energy Northwest	ENERGY NORTHWEST 76 NORTH POWER PLANT LOOP RICHLAND WA 99354
Arkansas Nuclear One Indian Point River Bend Waterford 3	Entergy Operations Inc.	Entergy Nuclear Operation 1340 Echelon Parkway Jackson, MS 39213
Braidwood	Constellation Energy Generation LLC	EXELON GENERATION CO LLC 35100 S STATE RTE 53 BRACEVILLE IL 60407-9619
Byron	Constellation Energy Generation LLC	CONSTELLATION ENERGY GENERATION LLC BYRON WAREHOUSE 4450 N GERMAN CHURCH RD BYRON IL 61010-9750
Dresden	Constellation Energy Generation LLC	CONSTELLATION ENERGY GEN LLC DRESDEN WAREHOUSE 6500 NORTH DRESDEN RD MORRIS IL 60450-9765
Ginna	Constellation Energy Generation LLC	EXELON GENERATION CO LLC RE GINNA NUCLEAR POWER PLANT WAREHOUSE 1503 LAKE RD ONTARIO NY 14519-9364
LaSalle	Constellation Energy Generation LLC	CONSTELLATION ENERGY GEN LLC LASALLE WAREHOUSE 2601 N 21ST RD MARSEILLES IL 61341-9757
Quad Cities	Constellation Energy Generation LLC	CONSTELLATION ENERGY GEN LLC QUAD CITIES WAREHOUSE 22710 206TH AVE N CORDOVA IL 61242-9740

## Impacted Utilities

Site	Utility	Mail Address
Calvert Cliffs	Constellation Energy Generation LLC	CONSTELLATION ENERGY NUCLEAR GROUP LLC 1650 CALVERT CLIFFS PKWY LUSBY MD 20657-4700
St. Lucie	Florida Power & Light	Florida Power & Light St. Lucie Nuclear Plant 6501 S. Ocean Drive Jensen Beach, FL 34957
Turkey Point	Florida Power & Light	Florida Power & Light Turkey Point Nuclear Plant 9760 SW 344th Street Homestead, FL 33035
Farley Hatch Vogtle	Southern Nuclear Operating Co.	SOUTHERN NUCLEAR OPERATING COMPANY P. O. BOX 1295 BIRMINGHAM, AL 35201
Comanche Peak	Luminant Generation Company LLC	Luminant Generation Company LLC Comanche Peak NPP P.O. Box 1002 Glen Rose, TX. 76043
Point Beach	NextEra Energy Resources	NextEra Energy Resources 6610 Nuclear Road Two Rivers, WI 54241-9516
Seabrook	NextEra Energy Resources	NextEra Energy Resources Seabrook Station PO Box 300 Seabrook, NH 03874
Diablo Canyon	Pacific Gas & Electric	DIABLO CANYON MATERIALS FACILITY 4340 OLD SANTA FE ROAD SAN LUIS OBISPO, CA 93401
Salem/Hope Creek	PSEG	PSEG Nuclear, LLC P.O. Box 236 HANCOCKS BRIDGE, NJ 08038
South Texas Project	South Texas Project	STP NUCLEAR OPERATING COMPANY P.O. BOX 289 WADSWORTH, TX 77483
Browns Ferry Sequoyah Watts Bar	TVA	TVA Nuclear Power Group 1101 Market Street, LP 4AC; Chattanooga, Tennessee 37402-2801
Wolf Creek	Wolf Creek Nuclear Operating Corp.	WOLF CREEK NUCLEAR OPERATING CORP 1550 OXEN LN NE BURLINGTON KS 66839-9127
Monticello	Xcel Energy Inc	XCEL ENERGY INC MONTICELLO NUCLEAR GENERATING PLANT 2807 W COUNTY RD 75 MONTICELLO MN 55362-9601
Prairie Island	Xcel Energy Inc	PRAIRIE ISLAND NUCLEAR GENERATING PLANT (PINGP) 1717 WAKONADE DRIVE, EAST WELCH, MN 55089