

# Rosemount Nuclear Instruments

Rosemount Nuclear Instruments, Inc.  
12001 Technology Drive  
Eden Prairie, MN 55344 USA  
Tel 1 (952) 828-8252  
Fax 1 (952) 828-8280

February 1, 2001

Re: Notification under 10 CFR Part 21 for Model 353C and 353C1 Conduit Seals

Pursuant to 10CFR Part 21 Paragraph 21.21(b), Rosemount Nuclear Instruments, Inc. (RNII) is writing to inform you of a potential nonconformance related to certain model 353C and 353C1 nuclear qualified conduit seals. (Model 353C and 353C1 are identical in construction except for the leadwire length). The nonconformance was the failure of RNII standard manufacturing acceptance and inspection tests to identify production units containing an electrical short condition. Only those units produced and shipped since the 10CFR Part 21 Notification of a similar problem on 20 September 1996 are potentially affected.

Since the earlier 10CFR Part 21 Notification of 20 September 1996, RNII has become aware of two additional model 353C conduit seals that were manufactured and received by the user in an output short condition. In both instances, the failures were detected by the customer in pre-installation checks and were not installed in the plant. Upon return to RNII, failure analysis confirmed that both units were shorted internally.

RNII completes a standard insulation resistance test on 100% of model 353C and 353C1 production units. The test measures the insulation resistance between each leadwire and between each leadwire and the conduit case. Additionally, an independent inspection step was included in the production process for 100% of production units as a corrective action from the earlier Part 21 Notification. This test and inspection would identify any unit exhibiting a short condition.

With respect to the two returned units with internal electrical shorts, RNII concludes that the insulation resistance test and the independent inspection were incorrectly completed.

RNII is notifying users of 353C and 353C1 conduit seals of a potential nonconformance in the acceptance testing completed on 100% of production units shipped since the previous Part 21 Notification (September 20, 1996). If the conduit seal has successfully been placed in operation, or completed a functional test by the customer that verifies the insulation resistance of the lead wires, this notification is not applicable.

IE19

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

Mr. Jeffrey W. Schmitt  
Vice President & General Manager  
Rosemount Nuclear Instruments, Inc.  
12001 Technology Drive  
Eden Prairie, MN 55344

**2.0 Identification of items supplied:**

Model 353C and 353C1 Conduit Seals

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

Rosemount Nuclear Instruments, Inc.  
12001 Technology Drive  
Eden Prairie, MN 55344

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

This notification relates to Model 353C and 353C1 conduit seals which exhibit an electrical short condition. Any model 353C and 353C1 conduit seal which does not indicate a short condition is deemed acceptable and this notification is not applicable to such units.

This notification is not applicable to units which are currently operational, or have successfully completed a functional test by the customer that would verify the insulation resistance of the lead wires.

RNII does not have sufficient information to determine the safety impact related to plant applications. Licensees must determine the impact on plant operations and plant safety and take action as deemed necessary.

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

RNII has identified that the nonconformance was due to failure of manufacturing functional tests and inspection steps to identify model 353C and 353C1 conduit seals in a short condition prior to shipment.

RNII recommends that all users of 353C and 353C1 conduit seals complete an Insulation Resistance (IR) Test, or other equivalent test which will identify a short output condition, on all conduit seals which are not currently operational (e.g. maintained in stores or as spare/replacements). If an IR test will be used, the test should be completed between the two leadwires and from each leadwire to the conduit case. Acceptance criteria is a minimum IR of 100 megohms at 100 V dc.

If a shorted conduit seal is identified, please contact Rosemount Nuclear Instruments, Inc. for return and replacement (if desired) at no charge.

If requested, RNII will perform acceptance testing of returned conduit seals from a customer (subject to the corrective action outlined below) at no charge.

RNII internal corrective actions are summarized as follows:

1. Production and Shipping Hold placed on all conduit seals in production or awaiting shipment.
2. Verification by a qualified technician or an engineer that each conduit seal unit meets all acceptance criteria prior to release of Production and/or Shipping Hold.
3. Operator training on acceptance test procedures and equipment.
4. Review and revision of manufacturing and inspection procedures as required to clarify the production and inspection processes.

No further action related to this issue is expected. Mr. Schmitt is responsible should any further action related to this issue be necessary.

**10CFR21 Notification**

**01 February, 2001**

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

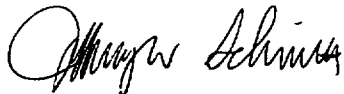
This notification applies to 353C and 353C1 conduit seals which are not currently operational and have not completed an appropriate acceptance test by the user that verifies the proper insulation resistance of the lead wires in the conduit seal assembly. Standard plant procedures for acceptance testing and installing RNII transmitter - conduit seals should be sufficient to identify this potential defect and no further action is recommended.

The end user must determine the full scope of this nonconformance as it relates to plant operations and plant safety and take action as deemed necessary.

Rosemount Nuclear Instruments, Inc. has a strong commitment to the nuclear industry and assures you that we are dedicated to the supply of high quality products and services to our customers. We are sorry for any inconvenience. If there are any questions, or you require additional information related to this issue, please contact Mike Dougherty (952) 828-5626, Gerard Hanson (952) 828-3480, Bob Cleveland (952) 828-8255, or Rustin Ekness (952) 828-8254.

Sincerely,

ROSEMOUNT NUCLEAR INSTRUMENTS, INC.



J. W. Schmitt  
Vice President & General Manager

**ATTACHMENT**  
**10CFR PART 21 NOTIFICATION 01 FEBRUARY 2001**  
**EXELON NUCLEAR GENERATION, LLC**

<b>Model</b>	<b>Serial</b>	<b>Customer P.O.</b>
353C1	518493	41J420
353C1	518494	41J420
353C1	519105	8831
353C1	519764	13745
353C1	519765	13745
353C1	519766	13745
353C1	519767	13745
353C1	519768	13745
353C1	519769	13745
353C1	519770	13745

**ATTACHMENT**  
**10CFR PART 21 NOTIFICATION 01 FEBRUARY 2001**  
**CONSUMERS ENERGY CORP.**

<b>Model</b>	<b>Serial</b>	<b>Customer P.O.</b>
353C1	515858	G0271232
353C1	515859	G0271232
0353C1	0512987	G0217866
0353C1	0512988	G0217866
0353C1	0512989	G0217866
0353C1	0512990	G0217866
0353C1	0512991	G0217866
0353C1	0512992	G0217866
0353C	0512993	G0217881
0353C	0512994	G0217881
0353C	0512995	G0217881
0353C	0512996	G0217881
0353C	0512997	G0217881
0353C	0512998	G0217881

**ATTACHMENT**  
**10CFR PART 21 NOTIFICATION 01 FEBRUARY 2001**  
**ENTERGY CORP.**

<b>Model</b>	<b>Serial</b>	<b>Customer P.O.</b>
353C1	517664	WP970290

**ATTACHMENT**  
**10CFR PART 21 NOTIFICATION 01 FEBRUARY 2001**  
**FISHER ROSEMOUNT AG**

<b>Model</b>	<b>Serial</b>	<b>Customer P.O.</b>
353C1	515549	20642
353C1	515550	20642
353C1	515551	20642
353C1	515552	20642
353C1	515553	20642
353C1	515554	20642
353C1	515555	20642
353C1	515556	20642
353C1	515557	20642
353C1	515558	20642
353C1	515559	20642
353C1	515560	20642
353C1	515561	20642
353C1	515562	20642
353C1	515563	20642
353C1	515564	20642
353C1	515565	20642
353C1	515566	20642
353C1	515567	20642
353C1	515568	20642
353C	518932	26266
353C	518933	26266
353C	518934	26266
353C	518935	26266
353C	518936	26266
353C	518937	26266
353C	518938	26266
353C	518939	26266
353C	518940	26266
353C	518941	26266
353C	518942	26266
353C	518943	26266
353C	518944	26266
353C	518945	26266
353C	518946	26266
353C	518947	26266



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**10CFR PART 21 NOTIFICATION 01 FEBRUARY 2001**  
**FISHER ROSEMOUNT AG**

<b>Model</b>	<b>Serial</b>	<b>Customer P.O.</b>
353C	518948	26266
353C	518949	26266
353C	518950	26266
353C	518951	26266
353C	518952	26266
353C	518953	26266
353C	518954	26266
353C	518955	26266
353C	518956	26266
353C	518957	26266
353C	518958	26266
353C	518960	26266
353C	518961	26266
353C	519847	28161

**ATTACHMENT**  
**10CFR PART 21 NOTIFICATION 01 FEBRUARY 2001**  
**FISHER ROSEMOUNT KOREA LTD**

<b>Model</b>	<b>Serial</b>	<b>Customer P.O.</b>
353C	515046	FRKL98M-149/KEP
353C	515047	FRKL98M-149/KEP
353C	515048	FRKL98M-149/KEP
353C	515049	FRKL98M-149/KEP
353C	515050	FRKL98M-149/KEP
353C	515051	FRKL98M-149/KEP
353C	515052	FRKL98M-149/KEP
353C	515053	FRKL98M-149/KEP
353C	515054	FRKL98M-149/KEP
353C	515055	FRKL98M-149/KEP
353C	515056	FRKL98M-149/KEP
353C	515057	FRKL98M-149/KEP
353C	515058	FRKL98M-149/KEP
353C	515059	FRKL98M-149/KEP
353C	515060	FRKL98M-149/KEP
353C	515061	FRKL98M-149/KEP
353C	515062	FRKL98M-149/KEP
353C	515063	FRKL98M-149/KEP
353C	515064	FRKL98M-149/KEP
353C	515065	FRKL98M-149/KEP
353C	515066	FRKL98M-149/KEP
353C	515067	FRKL98M-149/KEP
353C	515068	FRKL98M-149/KEP
353C	515069	FRKL98M-149/KEP
353C	515070	FRKL98M-149/KEP
353C	515071	FRKL98M-149/KEP
353C	515072	FRKL98M-149/KEP
353C	515073	FRKL98M-149/KEP
353C	515074	FRKL98M-149/KEP
353C	515075	FRKL98M-149/KEP
353C	515076	FRKL98M-149/KEP
353C	515077	FRKL98M-149/KEP
353C	515078	FRKL98M-149/KEP
353C	515079	FRKL98M-149/KEP
353C	515080	FRKL98M-149/KEP
353C	515081	FRKL98M-149/KEP

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**FISHER ROSEMOUNT KOREA LTD**

<b>Model</b>	<b>Serial</b>	<b>Customer P.O.</b>
353C	515082	FRKL98M-149/KEP
353C	515083	FRKL98M-149/KEP
353C	515084	FRKL98M-149/KEP
353C	515085	FRKL98M-149/KEP
353C	515086	FRKL98M-149/KEP
353C	515087	FRKL98M-149/KEP
353C	515088	FRKL98M-149/KEP
353C	515089	FRKL98M-149/KEP
353C	515090	FRKL98M-149/KEP
353C	515091	FRKL98M-149/KEP
353C	515092	FRKL98M-149/KEP
353C	515093	FRKL98M-149/KEP
353C	515094	FRKL98M-149/KEP
353C	515095	FRKL98M-149/KEP
353C	515096	FRKL98M-149/KEP
353C	515097	FRKL98M-149/KEP
353C	515098	FRKL98M-149/KEP
353C	515099	FRKL98M-149/KEP
353C	515100	FRKL98M-149/KEP
353C	515101	FRKL98M-149/KEP
353C	515102	FRKL98M-149/KEP
353C	515103	FRKL98M-149/KEP
353C	515104	FRKL98M-149/KEP
353C	515105	FRKL98M-149/KEP
353C	515106	FRKL98M-149/KEP
353C	515107	FRKL98M-149/KEP
353C	515108	FRKL98M-149/KEP
353C	515109	FRKL98M-149/KEP
353C	515110	FRKL98M-149/KEP
353C	515111	FRKL98M-149/KEP
353C	515112	FRKL98M-149/KEP
353C	515113	FRKL98M-149/KEP
353C	515114	FRKL98M-149/KEP
353C	515115	FRKL98M-149/KEP
353C	515116	FRKL98M-149/KEP
353C	515117	FRKL98M-149/KEP

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**FISHER ROSEMOUNT KOREA LTD**

<b>Model</b>	<b>Serial</b>	<b>Customer P.O.</b>
353C	515118	FRKL98M-149/KEP
353C	515119	FRKL98M-149/KEP
353C	515120	FRKL98M-149/KEP
353C	515121	FRKL98M-149/KEP
353C	515451	FRKL98M-266/KEP
353C	515452	FRKL98M-266/KEP
353C	515453	FRKL98M-266/KEP
353C	515454	FRKL98M-266/KEP
353C	515455	FRKL98M-266/KEP
353C	515787	FRKL98M-430/KEP
353C	515788	FRKL98M-430/KEP
353C	515789	FRKL98M-430/KEP
353C	515790	FRKL98M-430/KEP
353C	515791	FRKL98M-430/KEP
353C	515792	FRKL98M-430/KEP
353C	515793	FRKL98M-430/KEP
353C	515794	FRKL98M-430/KEP

**ATTACHMENT**  
**10CFR PART 21 NOTIFICATION 01 FEBRUARY 2001**  
**FISHER ROSEMOUNT SA**

<b>Model</b>	<b>Serial</b>	<b>Customer P.O.</b>
353C	513472	41627
353C	513473	41627
353C	513474	41627
353C	513483	41627
353C	513484	41627
353C	513485	41627
353C	513851	41627
353C	513852	41627
353C	513853	41627
353C	513854	41627
353C	513889	42156
353C	513890	42156
353C	516554	47164
353C	516555	47164
353C	516556	47164
353C	516557	47164
353C	516558	47164
353C	516559	47164
353C	516560	47164
353C	516561	47164
353C	517884	49097
353C	517885	49097
353C	517886	49097
353C	517887	49097
353C	517888	49097
353C	517889	49097
353C	517890	49097
353C	517891	49097
353C	518651	34980243
353C	518652	34980243
353C	518653	34980243
353C	518654	34980243
353C	518655	34980243
353C	518656	34980243
353C	519508	34982423
353C	519509	34982423
353C	519560	34982972

**ATTACHMENT**  
**10CFR PART 21 NOTIFICATION 01 FEBRUARY 2001**  
**FISHER ROSEMOUNT SA**

<b>Model</b>	<b>Serial</b>	<b>Customer P.O.</b>
353C	519561	34982972
353C	519984	34983538
353C	519985	34983538
353C	520354	34983538
0353C	0512896	40556
0353C	0512897	40556
0353C	0512898	40556
0353C	0512899	40556
0353C	0512900	40556
0353C	0513001	40540
0353C	0513002	40540
0353C	0513003	40540
0353C	0513004	40540
0353C	0513005	40540
0353C	0513006	40540
0353C	0513007	40540
0353C	0513011	40480
0353C	0513012	40480
0353C	0513013	40480

**ATTACHMENT**  
**10CFR PART 21 NOTIFICATION 01 FEBRUARY 2001**  
**FLORIDA POWER CORP.**

<b>Model</b>	<b>Serial</b>	<b>Customer P.O.</b>
353C1	513815	F340598D
353C1	513891	F340598D
353C1	513892	F340598D
353C1	513893	F340598D
353C1	513894	F340598D
353C1	513961	F340598D
353C1	515126	F742063D

**ATTACHMENT**  
**10CFR PART 21 NOTIFICATION 01 FEBRUARY 2001**  
**GEORGIA POWER CO**

<b>Model</b>	<b>Serial</b>	<b>Customer P.O.</b>
353C	520322	6047349/002
353C	520323	6047349/002
353C	520324	6047349/002
353C	520325	6047349/002
353C	520326	6047349/002
353C	520327	6047349/002
353C	520328	6047349/002
353C	520329	6047349/002
353C	520330	6047349/002
353C	520331	6047349/002



**ATTACHMENT**  
**10CFR PART 21 NOTIFICATION 01 FEBRUARY 2001**  
**KOREA ELECTRIC POWER CORP.**

<b>Model</b>	<b>Serial</b>	<b>Customer P.O.</b>
353C	513818	OH962UA92800
353C	513819	OH962UA92800
353C	513820	OH962UA92800
353C	513821	OH962UA92800
353C	518415	OH982K1-0410-0
353C	518463	OH992KA-0150-0
353C	518464	OH992KA-0150-0
353C	518465	OH992KA-0150-0
353C	518466	OH992KA-0150-0
353C	518467	OH992KA-0150-0
353C	518468	OH992KA-0150-0
353C	518469	OH992KA-0150-0
353C	518470	OH992KA-0150-0
353C	520044	C99NKR1-0191-490
353C	520045	C99NKR1-0191-490
353C	520046	C99NKR1-0191-490
353C	520047	C99NKR1-0191-490

**ATTACHMENT**  
**10CFR PART 21 NOTIFICATION 01 FEBRUARY 2001**  
**NORTHEAST NUCLEAR ENERGY CO.**

<b>Model</b>	<b>Serial</b>	<b>Customer P.O.</b>
353C1	517607	2098093
353C1	517608	2098093
353C1	517609	2098093
353C1	517610	2098093
353C1	517611	2098093
353C1	517612	2098093
353C1	517613	2098093
353C1	517614	2098093
0353C1	0512781	954476
0353C1	0512782	954476
0353C1	0512783	954476
0353C1	0512784	954476
0353C1	0512785	954476
0353C1	0512786	954476
0353C1	0512787	954476
0353C1	0512788	954476
0353C1	0512789	954476
0353C1	0512790	954476
0353C1	0512791	954476
0353C1	0512792	954476
0353C1	0512793	954476

**ATTACHMENT**  
**10CFR PART 21 NOTIFICATION 01 FEBRUARY 2001**  
**PACIFIC GAS AND ELECTRIC CO.**

**Model**

0353C

**Serial**

0509319

**Customer P.O.**

4500012253

**ATTACHMENT**  
**10CFR PART 21 NOTIFICATION 01 FEBRUARY 2001**  
**ROSEMOUNT NUCLEAR INSTRUMENTS, INC.**

<b>Model</b>	<b>Serial</b>	<b>Customer P.O.</b>
0353C	0512821	NRSES 9501
0353C	0512822	NRSES 9501
0353C	0512823	NRSES 9501
0353C	0512839	NRSES 9501

**ATTACHMENT**  
**10CFR PART 21 NOTIFICATION 01 FEBRUARY 2001**  
**TVA**

<b>Model</b>	<b>Serial</b>	<b>Customer P.O.</b>
353C1	514001	P-97N2T-202656-000
353C1	514002	P-97N2T-202656-000