

Part 21 (PAR)

Event # 51643

<b>Rep Org:</b> FISHER CONTROLS INTERNATIONAL		<b>Notification Date / Time:</b> 01/08/2016 16:25 (EST)	
<b>Supplier:</b> FISHER CONTROLS INTERNATIONAL		<b>Event Date / Time:</b> 11/11/2015 (CST)	
<b>Last Modification:</b> 03/11/2016			
<b>Region:</b> 3	<b>Docket #:</b>		
<b>City:</b> MARSHALLTOWN	<b>Agreement State:</b>	Yes	
<b>County:</b>	<b>License #:</b>		
<b>State:</b> IA			
<b>NRC Notified by:</b> GEORGE BAITINGER	<b>Notifications:</b>	ANTHONY DIMITRIADIS	R1DO
<b>HQ Ops Officer:</b> JEFF ROTTON		ANTHONY MASTERS	R2DO
<b>Emergency Class:</b> NON EMERGENCY		KARLA STOEDTER	R3DO
<b>10 CFR Section:</b>		VIVIAN CAMPBELL	R4DO
21.21(a)(2)	INTERIM EVAL OF DEVIATION	PART 21/50.55 REACTORS	EMAIL

**PART 21 - COMMERCIAL GRADE CAP SCREWS PROVIDED WITH SAFETY RELATED FISHER TYPE 3570 POSITIONERS**

The following information was provided by the reporting organization via fax:

"Pursuant to 10 CFR 21.21(a)(2), Fisher Controls International LLC ('Fisher') is providing required written interim notification of a failure to comply concerning Type 3570 positioners when provided as safety-related equipment.

"On November 11, 2015, Fisher became aware of an issue with the dedication of a Type 3570 positioner. When replacement Type 3570 positioners are ordered, the two cap screws (SAE J429 Grade 5 cap screws/size 3/8-16x1.5) used for mounting the positioner to the actuator cylinder are also included. It was not clearly communicated to the end user that these mounting cap screws are included with the positioner. Further, the dedication plan only addresses the 3570 positioner and does not include dedication of the mounting cap screws.

"As a result, these cap screws had not been dedicated on any safety-related Type 3570 positioner orders. There is no reason to believe any of the cap screws supplied were defective, only that they were not dedicated and were therefore supplied as commercial grade items. There have been no reported failures of the cap screws in question.

"An extent-of-condition investigation is underway to identify all potentially affected bolt-on accessories. Any identified affected products will be reported per the requirements of 10 CFR 21.21 (b). This extent-of-condition review is expected to be completed by January 29, 2016.

"Corrective Action 1791 has been opened to document corrective actions taken to prevent reoccurrence.

JEI9  
NRR

"Should there be any further questions concerning this matter, please contact Benjamin Ahrens, Manager, Quality by email at Benjamin.Ahrens@Emerson.com or via phone at 641-754-2249.

Individual informing the NRC: Chad Engle, Director, Nuclear Business Unit, Fisher Controls International LLC, phone (641) 754-3011.

\*\*\* UPDATE FROM GEORGE BAITINGER TO HOWIE CROUCH VIA FAX AT 1528 EST ON 2/2/16 \*\*\*

The following information is summarized from a fax received from Emerson Process Management (Fisher Controls):

On January 22, 2016, Fisher Controls completed their extent-of-condition investigation and determined that seven of their thirty two product series have the potential to include non-dedicated cap screws and mounting studs.

The vendor plans to complete their final report within 45 days.

Notified R1DO (Rogge), R2DO (Musser), R3DO (Kozak), R4DO (Pick) and the Part 21 group via email.

\*\*\* UPDATE FROM LYNN SANDERS TO DONG PARK VIA EMAIL AT 1749 EST ON 3/11/16 \*\*\*

The following information is summarized from an email received from Emerson Process Management (Fisher Controls):

"The supplied instrument assemblies in question were subjected to the processing requirements of Fisher Controls FMP2K27 (Control of Commercial Grade Items to be Dedicated for Use in Nuclear Safety-Related Applications) and were supplied as safety-related components. However, Fisher supplied various mounting parts (in addition to the requested product) that were not processed under FMP2K27; thus, such parts were supplied as commercial items.

"This issue was first discovered in relation to the cap screws used for mounting a 3570 positioner (please see Interim Report dated 01/08/2016). Fisher conducted an extent-of-condition investigation to include all safety-related actuator-mounted accessories. In total, thirty-two (32) actuator-mounted item types were investigated. It is Fisher's opinion the failures to dedicate these mounting accessories do not pose an inherent safety risk.

"Additionally, there are no known field issues with respect to the affected equipment and all such non-dedicated equipment passed the required standard testing.

"Each affected customer needs to: (i) evaluate the application of each referenced item number for all respective orders; (ii) determine whether the incorrectly processed mounting parts are in violation of regulatory requirements; (iii) contact Fisher or otherwise arrange for the procurement of properly processed mounting parts for use in those applications found to be in violation. In addition, a Corrective Action Request (CAR 1791) has been initiated by Fisher to prevent reoccurrence of this issue."

Notified R1DO (Dimitriadis), R2DO (Suggs), R3DO (Riemer), R4DO (Proulx), and the Part 21 group via email.

\*\*\*\*\*



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301 South First Ave  
P.O. Box 190  
Marshalltown, Iowa 50158-0190  
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T (641) 754-3011  
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## **Fisher Information Notice: FIN 2016-02**

**10 March 2016**

**Subject:** Accessory Mounting Part Dedication

### **Equipment Affected by this Information Notice:**

Items subject to this Fisher Information Notice (FIN) are confined to the equipment ("Equipment") and orders referred to in Table 1 attached below.

### **Purpose:**

The purpose of this FIN is to alert the customer that, as of 11 November 2015, Fisher Controls International LLC (Fisher) became aware of a situation which may affect the performance of the Equipment, including their safety-related function.

Fisher is informing the affected customers of this circumstance in accordance with Section 21.21 (b) of 10 CFR 21.

### **Applicability:**

This FIN applies only to the Equipment identified in Table 1, which lists serial and order numbers that were delivered to affected customers.

### **Discussion:**

The supplied instrument assemblies in question were subjected to the processing requirements of Fisher Controls FMP2K27 (Control of Commercial Grade Items to be Dedicated for Use in Nuclear Safety-Related Applications) and were supplied as safety-related components. However, for the orders referenced in attached Table 1, Fisher supplied various mounting parts (in addition to the requested product) that were not processed under FMP2K27; thus, such parts were supplied as commercial items.

This issue was first discovered in relation to the cap screws used for mounting a 3570 positioner (please see Interim Report dated 01/08/2016, NRC Log No. 2016-01-00). Fisher conducted an extent-of-condition investigation to include all safety-related actuator-mounted accessories. In total, thirty-two (32) actuator-mounted item types were investigated. It is Fisher's opinion the failures to dedicate these mounting accessories do not pose an inherent safety risk.



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Additionally, there are no known field issues with respect to the affected Equipment and all such non-dedicated Equipment passed the required standard testing.

**Action Required:**

Each affected customer needs to: (i) evaluate the application of each referenced item number for all respective orders; (ii) determine whether the incorrectly processed mounting parts are in violation of regulatory requirements; (iii) contact Fisher or otherwise arrange for the procurement of properly processed mounting parts for use in those applications found to be in violation. In addition, a Corrective Action Request (CAR 1791) has been initiated by Fisher to prevent reoccurrence of this issue.

**10 CFR 21 Implications:**

Fisher requests that the recipient of this FIN review it and take appropriate action in accordance with 10 CFR 21. If there are any technical questions or concerns, please contact:

Ben Ahrens  
Quality Manager  
Emerson Process Management  
Fisher Controls International LLC  
301 South First Avenue  
Marshalltown, IA 50158  
Phone: (641) 754-2249  
[Benjamin.ahrens@emerson.com](mailto:Benjamin.ahrens@emerson.com)

A handwritten signature in black ink, appearing to read 'Chad Engle', written in a cursive style.

Chad Engle  
Nuclear Business Unit Director  
Fisher Controls International LLC  
301 South First Avenue  
Marshalltown, IA 50158  
Fax: (641) 754-2854

## FIN 2016-02

Table 1

Serial #	Customer Name	Plant Site/End User	Customer PO	Shipped Date	Product Description
19081939	AE Ehrke and Co	Domestic	304555-000 OP	7/9/10	DVC6015 POSITIONER
19081938	AE Ehrke and Co	Domestic	304555-000 OP	7/9/10	DVC6015 POSITIONER
19081937	AE Ehrke and Co	Domestic	304555-000 OP	7/9/10	DVC6015 POSITIONER
19081936	AE Ehrke and Co	Domestic	304555-000 OP	7/9/10	DVC6015 POSITIONER
19029556	Askalon AB	Ringhals Nuclear Power Plant	124-138856	6/1/09	DVC6035 POSITIONER
19029555	Askalon AB	Ringhals Nuclear Power Plant	124-138856	6/1/09	DVC6016 POSITIONER
17792289	Duke Energy Carolinas, LLC	Capital Westward Systems & Control	50132	2/14/08	DVC6015 POSITIONER
19012251	Emerson Process Management - AG	-	41048733	5/13/09	3610J POSITIONER
19012250	Emerson Process Management - AG	-	41048733	5/13/09	3610J POSITIONER
18896144	Emerson Process Management - Asia	KHNP Wolsung Nuclear Power Plant	253-KF34466SR	3/5/10	3570 POSITIONER
19160240	Emerson Process Management - Asia	KHNP Wolsung Nuclear Power Plant	253-KF34720SR	10/5/09	3570 POSITIONER
18898493	Emerson Process Management - Asia	KHNP Wolsung Nuclear Power Plant	253-KF34466SR	3/5/10	3570 POSITIONER
18823653	Emerson Process Management - Asia	KHNP Wolsung Nuclear Power Plant	253-KF34476SR	3/19/09	3570 POSITIONER
17872862	Emerson Process Management - Asia	-	253-KF33495	2/14/07	3570 POSITIONER
17602697	Emerson Process Management - Asia	-	253-KF33022C	4/19/06	3570 POSITIONER
17602696	Emerson Process Management - Asia	-	253-KF33022C	4/19/06	3570 POSITIONER
16345525	Emerson Process Management - Asia	-	NWS3-01M0034-760	9/24/02	3570 POSITIONER
16345526	Emerson Process Management - Asia	-	NWS3-01M0034-760	9/24/02	3570 POSITIONER
16345527	Emerson Process Management - Asia	-	NWS3-01M0034-760	9/24/02	3570 POSITIONER
16345528	Emerson Process Management - Asia	-	NWS3-01M0034-760	9/24/02	3570 POSITIONER
F000463017	Emerson Process Management - Asia	KHNP Wolsung Nuclear Power Plant	W120577191	7/1/15	3570 POSITIONER
F000463016	Emerson Process Management - Asia	KHNP Wolsung Nuclear Power Plant	W120577191	7/1/15	3570 POSITIONER
18926898	Emerson Process Management - Asia	KHNP Wolsung Nuclear Power Plant	253-KF34466SR	2/26/10	3610J POSITIONER
18926897	Emerson Process Management - Asia	KHNP Wolsung Nuclear Power Plant	253-KF34466SR	2/26/10	3610J POSITIONER
17905411	Emerson Process Management - Asia	-	253-KF33495D	3/2/07	3610J POSITIONER
16345521	Emerson Process Management - Asia	-	NWS3-01M0034-760	9/24/02	3610J POSITIONER
16345522	Emerson Process Management - Asia	-	NWS3-01M0034-760	9/24/02	3610J POSITIONER
16345523	Emerson Process Management - Asia	-	NWS3-01M0034-760	9/24/02	3610J POSITIONER
16345524	Emerson Process Management - Asia	-	NWS3-01M0034-760	9/24/02	3610J POSITIONER
19363836	Emerson Process Management - Belgium	Westinghouse Electric Sweden	4500315767	3/31/10	DVC6035 POSITIONER
19363835	Emerson Process Management - Belgium	Westinghouse Electric Sweden	4500315767	3/31/10	DVC6015 POSITIONER

Table 1

Serial #	Customer Name	Plant Site/End User	Customer PO	Shipped Date	Product Description
19362540	Emerson Process Management - Belgium	Westinghouse Electric Sweden	4500315767	3/31/10	DVC6015 POSITIONER
19118224	Emerson Process Management - Belgium	Westinghouse Electric Sweden	4500299608	6/29/09	DVC6035 POSITIONER
19118223	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500299608	6/29/09	DVC6015 POSITIONER
19118222	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500299608	6/29/09	DVC6015 POSITIONER
18486582	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6015, DVC6010 POSITIONERS
18486581	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6015, DVC6010 POSITIONERS
18486210	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6035 POSITIONER
18486209	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6035 POSITIONER
18486208	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6035 POSITIONER
18486207	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6035 POSITIONER
18486206	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6035 POSITIONER
18486205	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6035 POSITIONER
18486204	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6035 POSITIONER
18486203	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6035 POSITIONER
18486199	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6015 POSITIONER
18486198	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6015 POSITIONER
18486197	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6015 POSITIONER
18486196	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6010 POSITIONER
18486195	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6010 POSITIONER
18486194	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6010 POSITIONER
18486193	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6010 POSITIONER
18486192	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6015 POSITIONER
18486191	Emerson Process Management - Belgium	Ringhals Nuclear Power Plant	4500253569	4/17/09	DVC6015 POSITIONER
20794174	Emerson Process Management - Romania	Societatea Nationala Nuclearelectrica	40061525	9/4/12	3570 POSITIONER
20794173	Emerson Process Management - Romania	Societatea Nationala Nuclearelectrica	40061525	9/4/12	3570 POSITIONER
F000458992	Entergy Nuclear Operations, Inc.	Indian Point Energy Center	10395579	6/29/15	3570 POSITIONER
F000458991	Entergy Nuclear Operations, Inc.	Indian Point Energy Center	10395579	6/29/15	3570 POSITIONER
19398719	Entergy Nuclear Operations, Inc.	Entergy Nuclear Operations	10263509 REV. 001	10/8/10	3610J POSITIONER
19386322	Entergy Nuclear Operations, Inc.	Entergy Nuclear Operations	10263509 REV. 001	10/7/10	3610J POSITIONER
18014135	Entergy Nuclear Operations, Inc.	Entergy Nuclear Operations	4500551583	4/24/07	3570 POSITIONER
18886423	RE Mason Services, Inc.	Domestic	NU-02SR730499	3/25/09	DVC6015 POSITIONER