

Part 21 (PAR)

Event # 51494

Rep Org: EMERSON PROCESS MANAGEMENT		Notification Date / Time: 10/23/2015 16:53 (EDT)	
Supplier: FISHER CONTROLS INTERNATIONAL LLC		Event Date / Time: 09/02/2015 (CDT)	
Last Modification: 10/23/2015			
Region: 3	Docket #:		
City: MARSHALLTOWN	Agreement State:	Yes	
County:	License #:		
State: IA			
NRC Notified by: DENNIS SWANSON		Notifications: ALAN BLAMEY	R2DO
HQ Ops Officer: DONG HWA PARK		PART 21/50.55 REACTORS	EMAIL
Emergency Class: NON EMERGENCY			
10 CFR Section:			
21.21(d)(3)(i)	DEFECTS AND NONCOMPLIANCE		
50.55(e)	CONSTRUCT DEFICIENCY		

PART-21 REPORT - CLOSED SWITCH NOT ACTUATING WHEN VALVE IS FULLY CLOSED

The following is a summary of a submitted facsimile:

"Items subject to this Fisher Information Notice (FIN) were provided to Catawba Nuclear Station (CNS) per CNS Order 00178457 (Fisher Order Number 033-D800306145). Specifically, Fisher supplied an 8 inch Design A11 Butterfly Valve with a Type 1052 Actuator and TopWorx Switches, serial number F000458892 ('Equipment'). The issue is with the closed switch not actuating when the valve is fully closed.

"The purpose of this FIN is to alert CNS that as of 2 September 2015, Fisher Controls International LLC (Fisher) became aware of a situation which may affect the performance of the Equipment, including its safety-related function.

"If there are any technical questions or concerns, please contact: Ben Ahrens, Quality Manager, Emerson Process Management, Fisher Controls International LLC, 301 South 1st Avenue, Marshalltown, La 50158, Phone: (641) 754-2249, benjamin.ahrens@emerson.com"

IE19
NRR



Facsimile

301 South First Ave
Marshalltown, IA 50158

T 641-754-3011
F 641-754-2830

To: NRC Operations Center - Attn: Bill Huffman
Fax: 301-816-5151
From: Dennis Swanson, Emerson Process Management
Date: 10/23/2015
Pages: 5
(Incl cover)

Attachment: Fisher Information Notice – (FIN) 2015-03

For technical questions please contact George Baitinger at (641) 754-2026.



Fisher Controls International LLC
301 South First Ave.
P.O. Box 190
Marshalltown, Iowa 50158-0190
USA
T (641) 754-3011
F (641) 754-2830

October 23, 2015

To Whom It May Concern:

Attached is a Fisher Information Notice, (FIN) 2015-03.

Emerson Process Management – Fisher Valves complies with the reporting requirements of 10 CFR Part 21 Section 21.21 (b) and 10 CFR Part 50.55 (e) by informing the U.S. Nuclear Regulatory Commission Licensees or Purchaser of deviations or failures to comply.

Please review the attached FIN notice for applicability to your facility.

A handwritten signature in black ink, appearing to read "George Baitinger".

George Baitinger
Director, Quality Americas

Attachments





Fisher Controls International LLC
301 South First Ave
P.O. Box 190
Marshalltown, Iowa 50158-0190
USA
T (641) 754-3011
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Fisher Information Notice: FIN 2015-03

22 October 2015

Subject: Safety Related Switch Misalignment

From:

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

Equipment Affected by this Information Notice:

Items subject to this Fisher Information Notice (FIN) were provided to Catawba Nuclear Station (CNS) per CNS Order 00178457 (Fisher Order Number 033 -D800306145). Specifically, Fisher supplied an 8" Design A11 Butterfly Valve with a Type 1052 Actuator and TopWorx Switches, serial number F000458892 ("Equipment"). The issue is with the closed switch not actuating when the valve is fully closed.

Purpose:

The purpose of this FIN is to alert CNS that as of 2 September 2015, Fisher Controls International LLC (Fisher) became aware of a situation which may affect the performance of the Equipment, including its safety-related function.

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



Fisher Information Notice: FIN 2015-03**Applicability:**

This FIN applies only to the subject Equipment supplied by Fisher Controls to CNS via the aforementioned order.

Discussion:

The switches are operated by Target Magnets on a bracket which is attached to a hub in the actuator housing. The hub rotates based on valve shaft rotation. The shaft and hub are indexed for proper disc positioning. For the subject valve, the proper alignment and indexing for disc/shaft pinning was incorrect. This misalignment resulted in a misalignment of the Target Magnets to the closed switch, such that it would not actuate when the disc was fully closed. The open switch was also misaligned, but not to an extent that prevents the switch from actuating.

This issue was discovered following receipt of the Equipment by CNS. Duke's diagnostic testing determined the closed limit switch was not actuating with the valve fully closed. Further examination was performed by Fisher Lifecycle Services Colombia, which confirmed this finding.

It is assumed that the ostensibly identical valve assembly provided on Order 033 -D800306145 (Item CC2A) has successfully undergone functional testing and does not have the same defect.

Action Required:

Fisher will provide CNS with a properly pinned Disc/Shaft Assembly which will properly align Hub and Target Magnet Bracket allowing for proper switch actuation. In addition, a Corrective Action Request (CAR 1772) has been initiated by Fisher to prevent reoccurrence of this issue.



Fisher Information Notice: FIN 2015-03

10 CFR 21 Implications:

Fisher requests that the recipient of this notice 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 1st Avenue
Marshalltown, IA 50158
Phone: (641) 754-2249
benjamin.ahrens@emerson.com

