

Part 21 (PAR)

Event # 52678

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|--|-------------------------|---|------------------------------|
| Rep Org: EMERSON PROCESS MANAGEMENT | | Notification Date / Time: 04/13/2017 15:53 (EDT) | |
| Supplier: FISHER CONTROLS INTERNATIONAL LLC | | Event Date / Time: 08/30/2016 (CDT) | |
| | | Last Modification: 04/13/2017 | |
| Region: 3 | Docket #: | | |
| City: MARSHALLTOWN | Agreement State: | Yes | |
| County: | License #: | | |
| State: IA | | | |
| NRC Notified by: KIM SAGAR | | Notifications: | DON JACKSON R1DO |
| HQ Ops Officer: HOWIE CROUCH | | | MARVIN SYKES R2DO |
| Emergency Class: NON EMERGENCY | | | MARK JEFFERS R3DO |
| 10 CFR Section: | | | JOHN KRAMER R4DO |
| 21.21(d)(3)(i) DEFECTS AND NONCOMPLIANCE | | | PART 21/50.55 REACTORS EMAIL |

PART 21 NOTIFICATION - IDENTIFIED FISHER 546S ELECTRO-PNEUMATIC TRANSDUCERS STANDARD MOUNTING BRACKETS FAILED SEISMIC TESTING STANDARDS

Fisher Controls International LLC issued Fisher Information Notice FIN 2017-02 to inform users that certain identified Model 546NS electro-pneumatic transducers, when mounted on the supplied standard mounting brackets, were determined to be not adequately robust at seismic test levels.

Affected customers have been notified.

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 Automation Solutions
Fisher Controls International LLC
301 South First Avenue
Marshalltown, IA 50158
Phone: (641) 754-2249
Benjamin.ahrens@emerson.com

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NRR



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

April 13, 2017

To Whom It May Concern:

Attached is a Fisher Information Notice, (FIN) 2017-02

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.

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
F (641) 754-2830

Fisher Information Notice: FIN 2017-02

13 April 2017

Subject:

Type 546NS Qualification

Equipment Affected by this Fisher Information Notice:

Items subject to this Fisher Information Notice (FIN) are confined to those devices and orders referred to in the attached **Appendix A** that utilize Fisher's standard seismic mounting bracket. Specifically, affected devices include 546NS electro-pneumatic transducers and their associated seismic qualification (FQR-55, FQR-67, FQR-73, FQR-74, FQR-79, FQR-82, FQR-92, FQR-94, FQR-95, FQR-96, FQR-97, Report 4F-3-1-2) when mounted to the standard seismic mounting bracket (Fisher drawing number 35A4153).

Purpose:

The purpose of this FIN is to alert affected customers that, as of 30 August 2016, Fisher Controls International LLC (Fisher) became aware of a situation which may affect the performance of the aforementioned devices, including its safety-related function. Fisher is informing affected customers of this circumstance in accordance with Section 21.21 (b) of 10 CFR 21.

Applicability:

This FIN applies only to the devices identified in **Appendix A**, which includes serial numbers and order numbers of the affected devices delivered to customers. For purposes of clarification, this FIN only applies to those devices listed in **Appendix A** that are mounted on the aforementioned standard seismic mounting bracket.

Discussion:

Fisher's published seismic literature and certifications, based on testing conducted by a third-party laboratory, exhibit inconsistencies when compared to more recent testing completed by Fisher. To resolve this issue, Fisher initiated a new round of in-house seismic testing on the 546NS and associated mounting hardware.

Testing revealed that device performance is heavily dependent on the manner in which the device is mounted. Based on this new information, Fisher's previously recommended standard seismic mounting bracket has been deemed to be not adequately robust at the seismic levels tested; whereas, Fisher's recommended bulkhead bracket for wall mounting (Fisher drawing number 22A7618) has been shown to be adequate.

Previous certifications qualified the devices (including device and seismic mounting bracket) as having no natural frequencies in the 5-100 Hz range, the new battery of testing did detect natural frequencies in this range when mounted on the standard seismic mounting bracket. None of those detected natural frequencies were found to be below 60 Hz. Rigid mounting



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

fixtures that did not feature the standard seismic mounting bracket did not exhibit natural frequencies in the 5-100 Hz range.

At the seismic levels tested and utilizing the previously recommended standard seismic mounting bracket, testing has shown that device performance may be negatively affected during and after high frequency seismic loading. At frequency levels above 30 Hz, devices mounted inadequately are shown to exhibit shifts in device output. In one testing configuration featuring the standard seismic mounting bracket, one of the recommended mounting bracket bolts failed.

Extent of Condition:

Appendix A includes all 546NS devices provided as safety-related and qualified to the prior seismic test report.

Action Required:

Fisher is currently engaged in an initiative to redesign the standard seismic mounting bracket and to update documentation referencing seismic qualification. In addition, a Corrective Action Request (CAR 1815) has been initiated by Fisher to manage bracket redesign and to prevent reoccurrence of this issue. If the Fisher standard seismic mounting bracket drawing number 35A4153 is used, the previously provided seismic qualification is to be disregarded. Fisher bulkhead wall-mounting bracket drawing number 22A7618 has been shown to be adequate under the tested seismic levels. If another mounting arrangement is used, it is up to the customer to determine whether their particular mounting configuration is adequately robust.

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 Automation Solutions
Fisher Controls International LLC
301 South First Avenue
Marshalltown, IA 50158
Phone: (641) 754-2249
Benjamin.ahrens@emerson.com

A handwritten signature in black ink, appearing to read "Scott Lustyk", with a long horizontal line extending from the end.

Scott Lustyk
Nuclear Business Unit Manager
Fisher Controls International LLC



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

Appendix A: Affected Devices

| Serial # | LBP Order # | Customer | Customer PO |
|---|-----------------|-----------------------------|------------------|
| 20562561-20562564 | 418 -40061232 | CERNAVODA | 40061232 |
| 20670892-20670905 | 418 -40061435 | CERNAVODA | 40061435 |
| 21266675-21266690 | 418 -40061888 | CERNAVODA | 40061888 |
| 17814405-1784410 | 418 -41620944 | CERNAVODA | 41620944 |
| 20634179-20634188, 20635326-20635330 | 418 -41637224 | CERNAVODA | 41637224 |
| F000733710 | 025 -D230336976 | CONTROL SOUTHERN INC | 775882 |
| F000733709 | 025 -D230336976 | CONTROL SOUTHERN INC | 775882 |
| F000733708 | 025 -D230336976 | CONTROL SOUTHERN INC | 775882 |
| F000733707 | 025 -D230336976 | CONTROL SOUTHERN INC | 775882 |
| 20136663 | 025 -D230267810 | CONTROL SOUTHERN INC | 250147 |
| 20136662 | 025 -D230267810 | CONTROL SOUTHERN INC | 250147 |
| 20136661 | 025 -D230267810 | CONTROL SOUTHERN INC | 250147 |
| 20136660 | 025 -D230267810 | CONTROL SOUTHERN INC | 250147 |
| 20136659 | 025 -D230267810 | CONTROL SOUTHERN INC | 250147 |
| 20136658 | 025 -D230267810 | CONTROL SOUTHERN INC | 250147 |
| 20136657 | 025 -D230267810 | CONTROL SOUTHERN INC | 250147 |
| 20136656 | 025 -D230267810 | CONTROL SOUTHERN INC | 250147 |
| 20136655 | 025 -D230267810 | CONTROL SOUTHERN INC | 250147 |
| 20136654 | 025 -D230267810 | CONTROL SOUTHERN INC | 250147 |
| 20136653 | 025 -D230267810 | CONTROL SOUTHERN INC | 250147 |
| 16139009 | 033 -A003079384 | DUKE ENERGY FAYETTE LLC | NM6715 |
| 16139008 | 033 -A003079384 | DUKE ENERGY FAYETTE LLC | NM6715 |
| 16139007 | 033 -A003079384 | DUKE ENERGY FAYETTE LLC | NM6715 |
| 16139006 | 033 -A003079384 | DUKE ENERGY FAYETTE LLC | NM6715 |
| 15992855 | 033-A003072573 | DUKE ENERGY FAYETTE LLC | ON45757 |
| 15992854 | 033-A003072573 | DUKE ENERGY FAYETTE LLC | ON45757 |
| | 033 -A003072573 | DUKE POWER CO | ON45757 |
| 17787113 | 019 -F506459 | EDISON MATERIAL SUPPLY, LLC | 6L266025 |
| 17787112 | 019 -F506459 | EDISON MATERIAL SUPPLY, LLC | 6L266025 |
| 17064557 | 019 -F502671A | EDISON MATERIAL SUPPLY, LLC | 6J262017-C.O.002 |
| 16902734 | 019 -F503889 | EDISON MATERIAL SUPPLY, LLC | 6X214040/EDISON |
| 16844762 | 019 -F503964 | EDISON MATERIAL SUPPLY, LLC | 6L224048 |
| 16584015 | 019 -F503145 | EDISON MATERIAL SUPPLY, LLC | 6H233008 |



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

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|---------------------------|-----------------|-----------------------------|------------------|
| 16473207 | 019 -F502671 | EDISON MATERIAL SUPPLY, LLC | 6J262017-C.O.002 |
| 16472910 | 019 -F502671 | EDISON MATERIAL SUPPLY, LLC | 6J262017-C.O.002 |
| 16160435 | 019 -F501343 | EDISON MATERIAL SUPPLY, LLC | 6H211016,C.O.006 |
| 17787112-17787113 | 019 -F506459 | EDISON MATERIAL SUPPLY, LLC | 6L266025 |
| F001186495 | 026N-F000581 | ENTERGY | 10482239 |
| F001129685 | 026N-270276 | ENTERGY | 10478116 |
| F001129684 | 026N-270276 | ENTERGY | 10478116 |
| F001004399 | 026N-265021 | ENTERGY | 10463924 |
| F000855242 | 026N-258715 | ENTERGY | 10446345 |
| F000855241 | 026N-258715 | ENTERGY | 10446345 |
| F000855240 | 026N-258715 | ENTERGY | 10446345 |
| F000855239 | 026N-258715 | ENTERGY | 10446345 |
| F000855238 | 026N-258715 | ENTERGY | 10446345 |
| F000827649 | 026N-257359 | ENTERGY | 10443812 |
| F000827648 | 026N-257359 | ENTERGY | 10443812 |
| F000827647 | 026N-257359 | ENTERGY | 10443812 |
| F000784398 | 001 -H012A27163 | ENTERGY | 10437159 |
| F000784397 | 001 -H012A27163 | ENTERGY | 10437159 |
| F000784396 | 001 -H012A27163 | ENTERGY | 10437159 |
| 21266803-21266806 | 001 -A012036904 | ENTERGY | 10382494 |
| 17085054-17085055 | 001 -A01267420A | ENTERGY | 4500530127 |
| 17365113-17365116 | 001 -A01273068A | ENTERGY | 4500540500 |
| 1739533-17395934 | 001 -A01274673A | ENTERGY | 4500542266 |
| 17884458-17884460 | 001 -A01281768A | ENTERGY | 4500548543 |
| 20741188-20741191 | 001 -A012A10159 | ENTERGY | 10334166 |
| 20898008-20898012 | 001 -A012A13216 | ENTERGY | 10348361 |
| 21266843-21266847 | 001 -A012A18354 | ENTERGY | 1035168 |
| F000784396- F000784398 | 001 -H012A27163 | ENTERGY | 10437159 |
| 19592631 | 077X-83678454 | EPM | 253-KF35388SR |
| 19592630 | 077X-83678454 | EPM | 253-KF35388SR |
| 19592629 | 077X-83678454 | EPM | 253-KF35388SR |
| 19592628 | 077X-83678454 | EPM | 253-KF35388SR |
| 19592627 | 077X-83678454 | EPM | 253-KF35388SR |
| 19592601 | 077X-83678454 | EPM | 253-KF35388SR |
| 19592600 | 077X-83678454 | EPM | 253-KF35388SR |
| 19592599 | 077X-83678454 | EPM | 253-KF35388SR |
| 19592598 | 077X-83678454 | EPM | 253-KF35388SR |
| 19592597 | 077X-83678454 | EPM | 253-KF35388SR |
| 18668642 | 077X-38183844 | EPM | 860-SC300702 |
| 18668641 | 077X-38183844 | EPM | 860-SC300702 |



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

| | | | |
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| 18668640 | 077X-38183844 | EPM | 860-SC300702 |
| 18668639 | 077X-38183844 | EPM | 860-SC300702 |
| 18668638 | 077X-38183844 | EPM | 860-SC300702 |
| 18668637 | 077X-38183844 | EPM | 860-SC300702 |
| 18668636 | 077X-38183844 | EPM | 860-SC300702 |
| 18668635 | 077X-38183844 | EPM | 860-SC300702 |
| 18668634 | 077X-38183844 | EPM | 860-SC300702 |
| 18668633 | 077X-38183844 | EPM | 860-SC300702 |
| 18668632 | 077X-38183844 | EPM | 860-SC300702 |
| 18668631 | 077X-38183844 | EPM | 860-SC300702 |
| 18668630 | 077X-38183844 | EPM | 860-SC300702 |
| 18668629 | 077X-38183844 | EPM | 860-SC300702 |
| 18668628 | 077X-38183844 | EPM | 860-SC300702 |
| 18668627 | 077X-38183844 | EPM | 860-SC300702 |
| 18668626 | 077X-38183844 | EPM | 860-SC300702 |
| 18668625 | 077X-38183844 | EPM | 860-SC300702 |
| 18668624 | 077X-38183844 | EPM | 860-SC300702 |
| 18668623 | 077X-38183844 | EPM | 860-SC300702 |
| F000708999 | 077R-83920265 | EPM ASIA PACIFIC PTE LTD | K130568071 |
| F000708998 | 077R-83920265 | EPM ASIA PACIFIC PTE LTD | K130568071 |
| F000708997 | 077R-83920265 | EPM ASIA PACIFIC PTE LTD | K130568071 |
| F000708996 | 077R-83920265 | EPM ASIA PACIFIC PTE LTD | K130568071 |
| F000708995 | 077R-83920265 | EPM ASIA PACIFIC PTE LTD | K130568071 |
| F000708994 | 077R-83920265 | EPM ASIA PACIFIC PTE LTD | K130568071 |
| F000708993 | 077R-83920265 | EPM ASIA PACIFIC PTE LTD | K130568071 |
| F000708992 | 077R-83920265 | EPM ASIA PACIFIC PTE LTD | K130568071 |
| F000708991 | 077R-83920265 | EPM ASIA PACIFIC PTE LTD | K130568071 |
| F000708990 | 077R-83920265 | EPM ASIA PACIFIC PTE LTD | K130568071 |
| F000463029 | 077R-83848049 | EPM ASIA PACIFIC PTE LTD | W120577191 |
| F000463028 | 077R-83848049 | EPM ASIA PACIFIC PTE LTD | W120577191 |
| F000463027 | 077R-83848049 | EPM ASIA PACIFIC PTE LTD | W120577191 |
| F000463026 | 077R-83848049 | EPM ASIA PACIFIC PTE LTD | W120577191 |
| F000463025 | 077R-83848049 | EPM ASIA PACIFIC PTE LTD | W120577191 |
| F000463024 | 077R-83848049 | EPM ASIA PACIFIC PTE LTD | W120577191 |
| F000463023 | 077R-83848049 | EPM ASIA PACIFIC PTE LTD | W120577191 |
| F000463022 | 077R-83848049 | EPM ASIA PACIFIC PTE LTD | W120577191 |
| F000463021 | 077R-83848049 | EPM ASIA PACIFIC PTE LTD | W120577191 |
| F000463020 | 077R-83848049 | EPM ASIA PACIFIC PTE LTD | W120577191 |
| F000463019 | 077R-83848049 | EPM ASIA PACIFIC PTE LTD | W120577191 |
| F000463018 | 077R-83848049 | EPM ASIA PACIFIC PTE LTD | W120577191 |
| F000458943 | 077R-83855493B | EPM ASIA PACIFIC PTE LTD | 253-KF37108SR |



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

| | | | |
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| F000458942 | 077R-83855493B | EPM ASIA PACIFIC PTE LTD | 253-KF37108SR |
| F000458941 | 077R-83855493B | EPM ASIA PACIFIC PTE LTD | 253-KF37108SR |
| F000458938 | 077R-83855493B | EPM ASIA PACIFIC PTE LTD | 253-KF37108SR |
| F000458937 | 077R-83855493B | EPM ASIA PACIFIC PTE LTD | 253-KF37108SR |
| F000458936 | 077R-83855493B | EPM ASIA PACIFIC PTE LTD | 253-KF37108SR |
| F000458935 | 077R-83855493B | EPM ASIA PACIFIC PTE LTD | 253-KF37108SR |
| F000458934 | 077R-83855493B | EPM ASIA PACIFIC PTE LTD | 253-KF37108SR |
| F000499537 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499536 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
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| F000499519 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499518 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499517 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499516 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499515 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499509 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499508 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499507 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499506 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499443 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499442 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
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| F000499439 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499438 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499437 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499436 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499435 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499434 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499433 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |



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

| | | | |
|-------------------|-----------------|--------------------------------|---------------|
| F000499432 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499431 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499430 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499429 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F000499428 | 418 -40062847 | EPM ROMANIA SRL | 40062847 |
| F001117883 | 550 -4125120337 | EPM VALVE AUTOMATION INC | 4125120337 |
| F001117882 | 550 -4125120337 | EPM VALVE AUTOMATION INC | 4125120337 |
| F001117881 | 550 -4125120337 | EPM VALVE AUTOMATION INC | 4125120337 |
| F000769371 | 550 -4125091243 | EPM VALVE AUTOMATION INC | 4125091243 |
| F000769370 | 550 -4125091243 | EPM VALVE AUTOMATION INC | 4125091243 |
| 21293604 | 550 -4125065938 | EPM VALVE AUTOMATION INC | 4125065938 |
| 21293603 | 550 -4125065938 | EPM VALVE AUTOMATION INC | 4125065938 |
| 14615972 | 030W-3099-28 | EXPERITEC, INC | 573052 |
| 14615971 | 030W-3099-28 | EXPERITEC, INC | 573052 |
| 14613229 | 030W-3099-28 | EXPERITEC, INC | 573052 |
| 14613228 | 030W-3099-28 | EXPERITEC, INC | 573052 |
| 14613227 | 030W-3099-28 | EXPERITEC, INC | 573052 |
| 15707165 | 008-A008047932 | FIRSTENERGY CORP | 7037562 |
| 15707164 | 008-A008047932 | FIRSTENERGY CORP | 7037562 |
| 16445854-16445855 | 014M-A204107486 | FPL | P010781 |
| 17753352 | 010 -A001095229 | FPL - TURKEY POINT NUCLEAR | 78429 |
| 17753351 | 010 -A001095229 | FPL - TURKEY POINT NUCLEAR | 78429 |
| 17753350 | 010 -A001095229 | FPL - TURKEY POINT NUCLEAR | 78429 |
| 17753350-17753352 | 010 -A001095229 | FPL - TURKEY POINT NUCLEAR | 78429 |
| 16445855 | 014M-A204107486 | FPL ENERGY/NUCLEAR/POINT BEACH | P010781 |
| 16445854 | 014M-A204107486 | FPL ENERGY/NUCLEAR/POINT BEACH | P010781 |
| 15296887 | 009H-00266319 | INTERNATIONAL FLOW SERVICES LP | 18410 |
| 15296886 | 009H-00266319 | INTERNATIONAL FLOW SERVICES LP | 18410 |
| 15280675 | 009H-00264273 | INTERNATIONAL FLOW SERVICES LP | 18395 |
| 15280674 | 009H-00264273 | INTERNATIONAL FLOW SERVICES LP | 18395 |
| 20427213-20427215 | 077R-83737157 | KHNP | 253-KF36019SR |
| 20766026-20766027 | 077R-83769039 | KHNP | 253-KF36392SR |
| 19615274-19615280 | 077X-83677856 | KHNP | 253-KF35234SR |
| F001134541 | 049 -Z100833 | LAKESIDE PROCESS CONTROLS LTD | 253450 |
| F001128489 | 049 -Z100802 | LAKESIDE PROCESS CONTROLS LTD | 209914 |
| F001128488 | 049 -Z100802 | LAKESIDE PROCESS CONTROLS LTD | 209914 |
| F001128487 | 049 -Z100802 | LAKESIDE PROCESS CONTROLS LTD | 209914 |
| F001128486 | 049 -Z100802 | LAKESIDE PROCESS CONTROLS LTD | 209914 |
| F001128485 | 049 -Z100802 | LAKESIDE PROCESS CONTROLS LTD | 209914 |
| F001128484 | 049 -Z100802 | LAKESIDE PROCESS CONTROLS LTD | 209914 |
| F001128482 | 049 -Z100802 | LAKESIDE PROCESS CONTROLS LTD | 209914 |



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

| | | | |
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| F001128481 | 049 -Z100802 | LAKESIDE PROCESS CONTROLS LTD | 209914 |
| F001128480 | 049 -Z100802 | LAKESIDE PROCESS CONTROLS LTD | 209914 |
| F001128479 | 049 -Z100802 | LAKESIDE PROCESS CONTROLS LTD | 209914 |
| F001128478 | 049 -Z100802 | LAKESIDE PROCESS CONTROLS LTD | 209914 |
| F001128477 | 049 -Z100802 | LAKESIDE PROCESS CONTROLS LTD | 209914 |
| F001128476 | 049 -Z100802 | LAKESIDE PROCESS CONTROLS LTD | 209914 |
| F001128475 | 049 -Z100802 | LAKESIDE PROCESS CONTROLS LTD | 209914 |
| F001128474 | 049 -Z100802 | LAKESIDE PROCESS CONTROLS LTD | 209914 |
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| F001128472 | 049 -Z100802 | LAKESIDE PROCESS CONTROLS LTD | 209914 |
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| F001128468 | 049 -Z100802 | LAKESIDE PROCESS CONTROLS LTD | 209914 |
| F001011769 | 049 -Z100352 | LAKESIDE PROCESS CONTROLS LTD | 234564 rel 358 |
| F001011768 | 049 -Z100352 | LAKESIDE PROCESS CONTROLS LTD | 234564 rel 358 |
| F000975534 | 049 -Z100240 | LAKESIDE PROCESS CONTROLS LTD | 250171 |
| F000975533 | 049 -Z100240 | LAKESIDE PROCESS CONTROLS LTD | 250171 |
| F000975532 | 049 -Z100240 | LAKESIDE PROCESS CONTROLS LTD | 250171 |
| F000975531 | 049 -Z100240 | LAKESIDE PROCESS CONTROLS LTD | 250171 |
| F000975530 | 049 -Z100240 | LAKESIDE PROCESS CONTROLS LTD | 250171 |
| F000975529 | 049 -Z100240 | LAKESIDE PROCESS CONTROLS LTD | 250171 |
| F000975528 | 049 -Z100240 | LAKESIDE PROCESS CONTROLS LTD | 250171 |
| F000975527 | 049 -Z100240 | LAKESIDE PROCESS CONTROLS LTD | 250171 |
| F000975526 | 049 -Z100240 | LAKESIDE PROCESS CONTROLS LTD | 250171 |
| F000894457 | 049 -N100028 | LAKESIDE PROCESS CONTROLS LTD | 201265 |
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| F000832937 | 049 -7049542663 | LAKESIDE PROCESS CONTROLS LTD | 238478 |
| F000832936 | 049 -7049542663 | LAKESIDE PROCESS CONTROLS LTD | 238478 |
| F000832935 | 049 -7049542663 | LAKESIDE PROCESS CONTROLS LTD | 238478 |
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| F000832921 | 049 -7049542663 | LAKESIDE PROCESS CONTROLS LTD | 238478 |
| F000832920 | 049 -7049542663 | LAKESIDE PROCESS CONTROLS LTD | 238478 |
| F000832919 | 049 -7049542663 | LAKESIDE PROCESS CONTROLS LTD | 238478 |
| F000754512 | 049 -7049532749 | LAKESIDE PROCESS CONTROLS LTD | 196503 |
| F000754511 | 049 -7049532749 | LAKESIDE PROCESS CONTROLS LTD | 196503 |
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| F000719599 | 049 -7049530415 | LAKESIDE PROCESS CONTROLS LTD | 196503 |
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| F000719595 | 049 -7049530415 | LAKESIDE PROCESS CONTROLS LTD | 196503 |
| F000663420 | 049 -7049525895 | LAKESIDE PROCESS CONTROLS LTD | 236984 |
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| F000663411 | 049 -7049525895 | LAKESIDE PROCESS CONTROLS LTD | 236984 |
| F000622655 | 049 -7049520325 | LAKESIDE PROCESS CONTROLS LTD | 193325 |
| F000622654 | 049 -7049520325 | LAKESIDE PROCESS CONTROLS LTD | 193325 |
| F000622653 | 049 -7049520325 | LAKESIDE PROCESS CONTROLS LTD | 193325 |
| F000622652 | 049 -7049520325 | LAKESIDE PROCESS CONTROLS LTD | 193325 |
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| F000622650 | 049 -7049520325 | LAKESIDE PROCESS CONTROLS LTD | 193325 |
| F000622649 | 049 -7049520325 | LAKESIDE PROCESS CONTROLS LTD | 193325 |
| F000584199 | 049 -7049518285 | LAKESIDE PROCESS CONTROLS LTD | 192553 |
| F000584198 | 049 -7049518285 | LAKESIDE PROCESS CONTROLS LTD | 192553 |
| F000584197 | 049 -7049518285 | LAKESIDE PROCESS CONTROLS LTD | 192553 |
| F000584196 | 049 -7049518285 | LAKESIDE PROCESS CONTROLS LTD | 192553 |
| F000584195 | 049 -7049518285 | LAKESIDE PROCESS CONTROLS LTD | 192553 |
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| F000526675 | 049 -7049512509 | LAKESIDE PROCESS CONTROLS LTD | 191239 |
| F000526674 | 049 -7049512509 | LAKESIDE PROCESS CONTROLS LTD | 191239 |
| F000526673 | 049 -7049512509 | LAKESIDE PROCESS CONTROLS LTD | 191239 |
| F000526672 | 049 -7049512509 | LAKESIDE PROCESS CONTROLS LTD | 191239 |
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| F000459022 | 049 -7049497880 | LAKESIDE PROCESS CONTROLS LTD | 229352 |
| F000459021 | 049 -7049497880 | LAKESIDE PROCESS CONTROLS LTD | 229352 |
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| F000458806 | 049 -7049495352 | LAKESIDE PROCESS CONTROLS LTD | 186356 |
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| 19438076 | 049 -8049401410 | LAKESIDE PROCESS CONTROLS LTD | 150690 |
| 19438075 | 049 -8049401410 | LAKESIDE PROCESS CONTROLS LTD | 150690 |



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| 19438073 | 049 -8049401410 | LAKESIDE PROCESS CONTROLS LTD | 150690 |
| 19438072 | 049 -8049401410 | LAKESIDE PROCESS CONTROLS LTD | 150690 |
| 19418741 | 049 -8049400946 | LAKESIDE PROCESS CONTROLS LTD | 150690 |
| 19418740 | 049 -8049400946 | LAKESIDE PROCESS CONTROLS LTD | 150690 |
| 19418739 | 049 -8049400946 | LAKESIDE PROCESS CONTROLS LTD | 150690 |
| 19418738 | 049 -8049400946 | LAKESIDE PROCESS CONTROLS LTD | 150690 |
| 19418737 | 049 -8049400946 | LAKESIDE PROCESS CONTROLS LTD | 150690 |
| 19418736 | 049 -8049400946 | LAKESIDE PROCESS CONTROLS LTD | 150690 |
| 19418735 | 049 -8049400946 | LAKESIDE PROCESS CONTROLS LTD | 150690 |
| 19365860 | 049 -8049396305 | LAKESIDE PROCESS CONTROLS LTD | 189196 |
| 19365859 | 049 -8049396305 | LAKESIDE PROCESS CONTROLS LTD | 189196 |
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| 19365849 | 049 -8049396305 | LAKESIDE PROCESS CONTROLS LTD | 189196 |
| 19365848 | 049 -8049396305 | LAKESIDE PROCESS CONTROLS LTD | 189196 |
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| 19365845 | 049 -8049396305 | LAKESIDE PROCESS CONTROLS LTD | 189196 |
| 19365844 | 049 -8049396305 | LAKESIDE PROCESS CONTROLS LTD | 189196 |
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| 19365840 | 049 -8049396305 | LAKESIDE PROCESS CONTROLS LTD | 189196 |
| 19365839 | 049 -8049396305 | LAKESIDE PROCESS CONTROLS LTD | 189196 |
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| 19365837 | 049 -8049396305 | LAKESIDE PROCESS CONTROLS LTD | 189196 |
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| 19365341 | 049 -8049396299 | LAKESIDE PROCESS CONTROLS LTD | 189486 |
| 19365340 | 049 -8049396299 | LAKESIDE PROCESS CONTROLS LTD | 189486 |
| 18847878 | 049 -8049363031 | LAKESIDE PROCESS CONTROLS LTD | 135423 |
| 18847877 | 049 -8049363031 | LAKESIDE PROCESS CONTROLS LTD | 135423 |
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| 18788956 | 049 -8049360027 | LAKESIDE PROCESS CONTROLS LTD | 134755 |
| 18788955 | 049 -8049360027 | LAKESIDE PROCESS CONTROLS LTD | 134755 |
| 18788954 | 049 -8049360027 | LAKESIDE PROCESS CONTROLS LTD | 134755 |
| 18788953 | 049 -8049360027 | LAKESIDE PROCESS CONTROLS LTD | 134755 |
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| 18788950 | 049 -8049360027 | LAKESIDE PROCESS CONTROLS LTD | 134755 |
| 18788949 | 049 -8049360027 | LAKESIDE PROCESS CONTROLS LTD | 134755 |
| 18788948 | 049 -8049360027 | LAKESIDE PROCESS CONTROLS LTD | 134755 |
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| 18788946 | 049 -8049360027 | LAKESIDE PROCESS CONTROLS LTD | 134755 |
| 18788945 | 049 -8049360027 | LAKESIDE PROCESS CONTROLS LTD | 134755 |
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| 18788942 | 049 -8049360027 | LAKESIDE PROCESS CONTROLS LTD | 134755 |
| 18788941 | 049 -8049360027 | LAKESIDE PROCESS CONTROLS LTD | 134755 |
| 18737331 | 049 -8049352423 | LAKESIDE PROCESS CONTROLS LTD | 170128 |
| 18737330 | 049 -8049352423 | LAKESIDE PROCESS CONTROLS LTD | 170128 |
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| 18509449 | 049 -8049340153 | LAKESIDE PROCESS CONTROLS LTD | 163988 |
| 18509448 | 049 -8049340153 | LAKESIDE PROCESS CONTROLS LTD | 163988 |
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| 18431666 | 049 -8049337648 | LAKESIDE PROCESS CONTROLS LTD | 161801 |
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| 18431661 | 049 -8049337056 | LAKESIDE PROCESS CONTROLS LTD | 163603 |
| 17148934 | 049 -8049249445 | LAKESIDE PROCESS CONTROLS LTD | 82PN60481-9001 |
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| 16590886 | 049 -8049225081 | LAKESIDE PROCESS CONTROLS LTD | 115157 |
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| 16562151 | 049 -8049223047 | LAKESIDE PROCESS CONTROLS LTD | 29371 |
| 16562150 | 049 -8049223047 | LAKESIDE PROCESS CONTROLS LTD | 29371 |
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| 16539922 | 049 -8049220971 | LAKESIDE PROCESS CONTROLS LTD | 98186 |
| 16539921 | 049 -8049220971 | LAKESIDE PROCESS CONTROLS LTD | 98186 |
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| 16474419 | 049 -8049216042 | LAKESIDE PROCESS CONTROLS LTD | 108138 |
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| 16474416 | 049 -8049216042 | LAKESIDE PROCESS CONTROLS LTD | 108138 |
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| 16347850 | 049 -8049206517 | LAKESIDE PROCESS CONTROLS LTD | 265412-P4 |
| 16347849 | 049 -8049206517 | LAKESIDE PROCESS CONTROLS LTD | 265412-P4 |
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| 16125596 | 049-8049188629 | LAKESIDE PROCESS CONTROLS LTD | 85783 |
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| 16125585 | 049-8049188629 | LAKESIDE PROCESS CONTROLS LTD | 85783 |



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| 15770050 | 049-8049176655 | LAKESIDE PROCESS CONTROLS LTD | 27793 |
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| 15619168 | 049-8049167637 | LAKESIDE PROCESS CONTROLS LTD | 50333 |
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| 15618466 | 049-8049167585 | LAKESIDE PROCESS CONTROLS LTD | 50334 |
| 15618465 | 049-8049167585 | LAKESIDE PROCESS CONTROLS LTD | 50334 |
| 15591249 | 049-8049165830 | LAKESIDE PROCESS CONTROLS LTD | 46060 |
| 15591248 | 049-8049165830 | LAKESIDE PROCESS CONTROLS LTD | 46060 |
| 15590695 | 049-8049165756 | LAKESIDE PROCESS CONTROLS LTD | 46574 |
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| F000687133 | 067L-ZNM7329197 | LAURENTIDE CONTROLS LTD | 4500410785 |
| F000687132 | 067L-ZNM7329197 | LAURENTIDE CONTROLS LTD | 4500410785 |
| F000687131 | 067L-ZNM7329197 | LAURENTIDE CONTROLS LTD | 4500410785 |
| F000687130 | 067L-ZNM7329197 | LAURENTIDE CONTROLS LTD | 4500410785 |



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| F000556913 | 067L-ZNM7318023 | LAURETIDE CONTROLS LTD | 4500403499 |
| F000556912 | 067L-ZNM7318023 | LAURETIDE CONTROLS LTD | 4500403499 |
| F000556911 | 067L-ZNM7318023 | LAURETIDE CONTROLS LTD | 4500403499 |
| F000556910 | 067L-ZNM7318023 | LAURETIDE CONTROLS LTD | 4500403499 |
| F000556909 | 067L-ZNM7318023 | LAURETIDE CONTROLS LTD | 4500403499 |
| 20110979 | 067A-FNM7090910 | LAURETIDE CONTROLS LTD | 4500346385 |
| 20110978 | 067A-FNM7090910 | LAURETIDE CONTROLS LTD | 4500346385 |
| 17606328-17606335 | 067L-FM67137855 | LAURETIDE CONTROLS LTD | 4501522014 |
| 17083535-17083547 | 067L-FN67112352 | LAURETIDE CONTROLS LTD | 4501112195/HYDRO |
| FDM0023598 | 067L-ZNM7290707 | LAURETIDE CONTROLS LTD | 4500365895 |
| 14489153 | 002-A009005175 | MAINE YANKEE ATOMIC POWER COMPANY | 97-01352 |
| 14489152 | 002-A009005175 | MAINE YANKEE ATOMIC POWER COMPANY | 97-01352 |
| 15978588-15978589 | 001 -A01250966A | NEBRASKA PUBLIC POWER DISTRICT | |
| 16260675 | 067A-C767069583 | NEW BRUNSWICK POWER | 4500139909 |
| 16260674 | 067A-C767069583 | NEW BRUNSWICK POWER | 4500139909 |
| 16260673 | 067A-C767069583 | NEW BRUNSWICK POWER | 4500139909 |
| 16260672 | 067A-C767069583 | NEW BRUNSWICK POWER | 4500139909 |
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| 16260661 | 067A-C767069583 | NEW BRUNSWICK POWER | 4500139909 |
| 20142752 | 014 -A204338384 | NEXTERA ENERGY POINT BEACH LLC | 2288846 |
| | 002 -A0090209735 | NORTH ATLANTIC ENERGY SERVICE CO | 2170726 |
| F000459783 | 029 -238878 | OMAHA PUBLIC POWER DISTRICT | 194651 |
| F000459782 | 029 -238878 | OMAHA PUBLIC POWER DISTRICT | 194651 |
| 18246917 | 029 -146501 | OMAHA PUBLIC POWER DISTRICT | 110616 |
| 18246916 | 029 -146501 | OMAHA PUBLIC POWER DISTRICT | 110616 |
| 17810903 | 029 -137703 | OMAHA PUBLIC POWER DISTRICT | 97064 |
| 17810902 | 029 -137703 | OMAHA PUBLIC POWER DISTRICT | 97064 |
| 17810901 | 029 -137703 | OMAHA PUBLIC POWER DISTRICT | 97064 |



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| 17810900 | 029 -137703 | OMAHA PUBLIC POWER DISTRICT | 97064 |
| 17149177-17149179 | 029 -123844 | OMAHA PUBLIC POWER DISTRICT | 76167 |
| 18532834-18532835 | 029 -151009 | OMAHA PUBLIC POWER DISTRICT | 116623 |
| 18877595 | 003 -V028200405 | PUBLIC SERVICE ELECTRIC AND GAS CO | 4500489167 |
| 19029596 | 003 -V028203178 | PUBLIC SERVICE ELECTRIC AND GAS CO | 4500503136 |
| 21318277-21318281 | 025 -D230310987 | TENNESSEE VALLEY AUTHORITY | 552734 |
| 20952618-20952619 | 025 -D2300294218 | TENNESSEE VALLEY AUTHORITY | 440120 |
| | 014M-A2044075771 | WISCONSIN ELECTRIC POWER CO | 4500407119 |
| 14530568 | 030W-2713-28 | WOLF CREEK NUCLEAR OPER.CORP. | 572082 |
| 14530567 | 030W-2713-28 | WOLF CREEK NUCLEAR OPER.CORP. | 572082 |
| 14530566 | 030W-2713-28 | WOLF CREEK NUCLEAR OPER.CORP. | 572082 |
| 14530565 | 030W-2713-28 | WOLF CREEK NUCLEAR OPER.CORP. | 572082 |
| 14530564 | 030W-2713-28 | WOLF CREEK NUCLEAR OPER.CORP. | 572082 |
| 14530563 | 030W-2713-28 | WOLF CREEK NUCLEAR OPER.CORP. | 572082 |
| 14252750 | 030W-1455-28 | WOLF CREEK NUCLEAR OPER.CORP. | 569436 |
| 14252749 | 030W-1455-28 | WOLF CREEK NUCLEAR OPER.CORP. | 569436 |
| 14252748 | 030W-1455-28 | WOLF CREEK NUCLEAR OPER.CORP. | 569436 |
| 14252747 | 030W-1455-28 | WOLF CREEK NUCLEAR OPER.CORP. | 569436 |
| 13909674 | 015R-A89C42901 | XCEL | PJ3258CQ |
| 13909673 | 015R-A89C42901 | XCEL | PJ3258CQ |
| 19556895-19556896 | 014 -A307320292 | XCEL | 33350 |