



Fisher Controls International LLC
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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



IE22
NRR



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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



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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:

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Quality Manager
Emerson Automation Solutions
Fisher Controls International LLC
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Phone: (641) 754-2249
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A handwritten signature in black ink, appearing to read "Scott Lustyk", written over a horizontal line.

Scott Lustyk
Nuclear Business Unit Manager
Fisher Controls International LLC



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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



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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



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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
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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
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F000463020	077R-83848049	EPM ASIA PACIFIC PTE LTD	W120577191
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F000463018	077R-83848049	EPM ASIA PACIFIC PTE LTD	W120577191
F000458943	077R-83855493B	EPM ASIA PACIFIC PTE LTD	253-KF37108SR



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F000458942	077R-83855493B	EPM ASIA PACIFIC PTE LTD	253-KF37108SR
F000458941	077R-83855493B	EPM ASIA PACIFIC PTE LTD	253-KF37108SR
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F000458936	077R-83855493B	EPM ASIA PACIFIC PTE LTD	253-KF37108SR
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F000499434	418 -40062847	EPM ROMANIA SRL	40062847
F000499433	418 -40062847	EPM ROMANIA SRL	40062847



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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
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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
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F001128485	049 -Z100802	LAKESIDE PROCESS CONTROLS LTD	209914
F001128484	049 -Z100802	LAKESIDE PROCESS CONTROLS LTD	209914
F001128482	049 -Z100802	LAKESIDE PROCESS CONTROLS LTD	209914



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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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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
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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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F000832925	049 -7049542663	LAKESIDE PROCESS CONTROLS LTD	238478
F000832924	049 -7049542663	LAKESIDE PROCESS CONTROLS LTD	238478



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F000832923	049 -7049542663	LAKESIDE PROCESS CONTROLS LTD	238478
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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
F000754510	049 -7049532749	LAKESIDE PROCESS CONTROLS LTD	196503
F000754509	049 -7049532749	LAKESIDE PROCESS CONTROLS LTD	196503
F000754508	049 -7049532749	LAKESIDE PROCESS CONTROLS LTD	196503
F000754507	049 -7049532749	LAKESIDE PROCESS CONTROLS LTD	196503
F000754506	049 -7049532749	LAKESIDE PROCESS CONTROLS LTD	196503
F000754505	049 -7049532749	LAKESIDE PROCESS CONTROLS LTD	196503
F000729854	049 -7049532749	LAKESIDE PROCESS CONTROLS LTD	196503
F000719599	049 -7049530415	LAKESIDE PROCESS CONTROLS LTD	196503
F000719596	049 -7049530415	LAKESIDE PROCESS CONTROLS LTD	196503
F000719595	049 -7049530415	LAKESIDE PROCESS CONTROLS LTD	196503
F000663420	049 -7049525895	LAKESIDE PROCESS CONTROLS LTD	236984
F000663419	049 -7049525895	LAKESIDE PROCESS CONTROLS LTD	236984
F000663418	049 -7049525895	LAKESIDE PROCESS CONTROLS LTD	236984
F000663417	049 -7049525895	LAKESIDE PROCESS CONTROLS LTD	236984
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F000663415	049 -7049525895	LAKESIDE PROCESS CONTROLS LTD	236984
F000663414	049 -7049525895	LAKESIDE PROCESS CONTROLS LTD	236984
F000663413	049 -7049525895	LAKESIDE PROCESS CONTROLS LTD	236984
F000663412	049 -7049525895	LAKESIDE PROCESS CONTROLS LTD	236984
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
F000622651	049 -7049520325	LAKESIDE PROCESS CONTROLS LTD	193325
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
F000526678	049 -7049512509	LAKESIDE PROCESS CONTROLS LTD	191239
F000526677	049 -7049512509	LAKESIDE PROCESS CONTROLS LTD	191239



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F000526676	049 -7049512509	LAKESIDE PROCESS CONTROLS LTD	191239
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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F000526667	049 -7049512509	LAKESIDE PROCESS CONTROLS LTD	191239
F000526666	049 -7049512509	LAKESIDE PROCESS CONTROLS LTD	191239
F000526665	049 -7049512509	LAKESIDE PROCESS CONTROLS LTD	191239
F000526664	049 -7049512509	LAKESIDE PROCESS CONTROLS LTD	191239
F000526663	049 -7049512509	LAKESIDE PROCESS CONTROLS LTD	191239
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F000504236	049 -7049495989	LAKESIDE PROCESS CONTROLS LTD	186448
F000504235	049 -7049495989	LAKESIDE PROCESS CONTROLS LTD	186448
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F000459023	049 -7049497880	LAKESIDE PROCESS CONTROLS LTD	229352
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F000458806	049 -7049495352	LAKESIDE PROCESS CONTROLS LTD	186356
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F000458804	049 -7049495352	LAKESIDE PROCESS CONTROLS LTD	186356
19438076	049 -8049401410	LAKESIDE PROCESS CONTROLS LTD	150690
19438075	049 -8049401410	LAKESIDE PROCESS CONTROLS LTD	150690



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19438074	049 -8049401410	LAKESIDE PROCESS CONTROLS LTD	150690
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
19365858	049 -8049396305	LAKESIDE PROCESS CONTROLS LTD	189196
19365857	049 -8049396305	LAKESIDE PROCESS CONTROLS LTD	189196
19365856	049 -8049396305	LAKESIDE PROCESS CONTROLS LTD	189196
19365855	049 -8049396305	LAKESIDE PROCESS CONTROLS LTD	189196
19365854	049 -8049396305	LAKESIDE PROCESS CONTROLS LTD	189196
19365853	049 -8049396305	LAKESIDE PROCESS CONTROLS LTD	189196
19365852	049 -8049396305	LAKESIDE PROCESS CONTROLS LTD	189196
19365851	049 -8049396305	LAKESIDE PROCESS CONTROLS LTD	189196
19365850	049 -8049396305	LAKESIDE PROCESS CONTROLS LTD	189196
19365849	049 -8049396305	LAKESIDE PROCESS CONTROLS LTD	189196
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19365847	049 -8049396305	LAKESIDE PROCESS CONTROLS LTD	189196
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19365844	049 -8049396305	LAKESIDE PROCESS CONTROLS LTD	189196
19365843	049 -8049396305	LAKESIDE PROCESS CONTROLS LTD	189196
19365842	049 -8049396305	LAKESIDE PROCESS CONTROLS LTD	189196
19365841	049 -8049396305	LAKESIDE PROCESS CONTROLS LTD	189196
19365840	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
18847876	049 -8049363031	LAKESIDE PROCESS CONTROLS LTD	135423
18847875	049 -8049363031	LAKESIDE PROCESS CONTROLS LTD	135423



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18847874	049 -8049363031	LAKESIDE PROCESS CONTROLS LTD	135423
18788956	049 -8049360027	LAKESIDE PROCESS CONTROLS LTD	134755
18788955	049 -8049360027	LAKESIDE PROCESS CONTROLS LTD	134755
18788954	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
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18788945	049 -8049360027	LAKESIDE PROCESS CONTROLS LTD	134755
18788944	049 -8049360027	LAKESIDE PROCESS CONTROLS LTD	134755
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18737331	049 -8049352423	LAKESIDE PROCESS CONTROLS LTD	170128
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18509449	049 -8049340153	LAKESIDE PROCESS CONTROLS LTD	163988
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18509447	049 -8049340153	LAKESIDE PROCESS CONTROLS LTD	163988
18509446	049 -8049340153	LAKESIDE PROCESS CONTROLS LTD	163988
18509445	049 -8049340153	LAKESIDE PROCESS CONTROLS LTD	163988
18509444	049 -8049340153	LAKESIDE PROCESS CONTROLS LTD	163988
18431666	049 -8049337648	LAKESIDE PROCESS CONTROLS LTD	161801
18431665	049 -8049337648	LAKESIDE PROCESS CONTROLS LTD	161801
18431664	049 -8049337648	LAKESIDE PROCESS CONTROLS LTD	161801
18431663	049 -8049337648	LAKESIDE PROCESS CONTROLS LTD	161801
18431661	049 -8049337056	LAKESIDE PROCESS CONTROLS LTD	163603
17148934	049 -8049249445	LAKESIDE PROCESS CONTROLS LTD	82PN60481-9001
17148933	049 -8049249445	LAKESIDE PROCESS CONTROLS LTD	82PN60481-9001
17148932	049 -8049249445	LAKESIDE PROCESS CONTROLS LTD	82PN60481-9001
17148931	049 -8049249445	LAKESIDE PROCESS CONTROLS LTD	82PN60481-9001
17148930	049 -8049249445	LAKESIDE PROCESS CONTROLS LTD	82PN60481-9001
17148929	049 -8049249445	LAKESIDE PROCESS CONTROLS LTD	82PN60481-9001
17148928	049 -8049249445	LAKESIDE PROCESS CONTROLS LTD	82PN60481-9001
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17148926	049 -8049249445	LAKESIDE PROCESS CONTROLS LTD	82PN60481-9001
17148925	049 -8049249445	LAKESIDE PROCESS CONTROLS LTD	82PN60481-9001



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17148924	049 -8049249445	LAKESIDE PROCESS CONTROLS LTD	82PN60481-9001
17148923	049 -8049249445	LAKESIDE PROCESS CONTROLS LTD	82PN60481-9001
17148922	049 -8049249445	LAKESIDE PROCESS CONTROLS LTD	82PN60481-9001
17148921	049 -8049249445	LAKESIDE PROCESS CONTROLS LTD	82PN60481-9001
17148920	049 -8049249445	LAKESIDE PROCESS CONTROLS LTD	82PN60481-9001
17148919	049 -8049249445	LAKESIDE PROCESS CONTROLS LTD	82PN60481-9001
17056507	049 -8049251188	LAKESIDE PROCESS CONTROLS LTD	108413
17056506	049 -8049251188	LAKESIDE PROCESS CONTROLS LTD	108413
16624928	049 -8049228152	LAKESIDE PROCESS CONTROLS LTD	115157REV2
16624927	049 -8049228152	LAKESIDE PROCESS CONTROLS LTD	115157REV2
16590886	049 -8049225081	LAKESIDE PROCESS CONTROLS LTD	115157
16590885	049 -8049225081	LAKESIDE PROCESS CONTROLS LTD	115157
16562155	049 -8049223047	LAKESIDE PROCESS CONTROLS LTD	29371
16562154	049 -8049223047	LAKESIDE PROCESS CONTROLS LTD	29371
16562153	049 -8049223047	LAKESIDE PROCESS CONTROLS LTD	29371
16562152	049 -8049223047	LAKESIDE PROCESS CONTROLS LTD	29371
16562151	049 -8049223047	LAKESIDE PROCESS CONTROLS LTD	29371
16562150	049 -8049223047	LAKESIDE PROCESS CONTROLS LTD	29371
16562149	049 -8049223047	LAKESIDE PROCESS CONTROLS LTD	29371
16562148	049 -8049223047	LAKESIDE PROCESS CONTROLS LTD	29371
16539922	049 -8049220971	LAKESIDE PROCESS CONTROLS LTD	98186
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16539412	049 -8049220187	LAKESIDE PROCESS CONTROLS LTD	97818
16539411	049 -8049220187	LAKESIDE PROCESS CONTROLS LTD	97818
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16539405	049 -8049220187	LAKESIDE PROCESS CONTROLS LTD	97818
16539404	049 -8049220187	LAKESIDE PROCESS CONTROLS LTD	97818
16539403	049 -8049220187	LAKESIDE PROCESS CONTROLS LTD	97818
16539402	049 -8049220187	LAKESIDE PROCESS CONTROLS LTD	97818
16539401	049 -8049220187	LAKESIDE PROCESS CONTROLS LTD	97818
16539400	049 -8049220187	LAKESIDE PROCESS CONTROLS LTD	97818
16539399	049 -8049220187	LAKESIDE PROCESS CONTROLS LTD	97818
16539398	049 -8049220187	LAKESIDE PROCESS CONTROLS LTD	97818



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16539397	049 -8049220187	LAKESIDE PROCESS CONTROLS LTD	97818
16539396	049 -8049220187	LAKESIDE PROCESS CONTROLS LTD	97818
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16474419	049 -8049216042	LAKESIDE PROCESS CONTROLS LTD	108138
16474418	049 -8049216042	LAKESIDE PROCESS CONTROLS LTD	108138



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16474417	049 -8049216042	LAKESIDE PROCESS CONTROLS LTD	108138
16474416	049 -8049216042	LAKESIDE PROCESS CONTROLS LTD	108138
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16474396	049 -8049216042	LAKESIDE PROCESS CONTROLS LTD	108138
16366970	049 -8049208040	LAKESIDE PROCESS CONTROLS LTD	60481-001-1284-EPR
16347850	049 -8049206517	LAKESIDE PROCESS CONTROLS LTD	265412-P4
16347849	049 -8049206517	LAKESIDE PROCESS CONTROLS LTD	265412-P4
16347848	049 -8049206517	LAKESIDE PROCESS CONTROLS LTD	265412-P4
16347847	049 -8049206517	LAKESIDE PROCESS CONTROLS LTD	265412-P4
16347846	049 -8049206517	LAKESIDE PROCESS CONTROLS LTD	265412-P4
16125597	049-8049188629	LAKESIDE PROCESS CONTROLS LTD	85783
16125596	049-8049188629	LAKESIDE PROCESS CONTROLS LTD	85783
16125595	049-8049188629	LAKESIDE PROCESS CONTROLS LTD	85783
16125594	049-8049188629	LAKESIDE PROCESS CONTROLS LTD	85783
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16125587	049-8049188629	LAKESIDE PROCESS CONTROLS LTD	85783
16125586	049-8049188629	LAKESIDE PROCESS CONTROLS LTD	85783
16125585	049-8049188629	LAKESIDE PROCESS CONTROLS LTD	85783



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15990786	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990785	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990784	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990783	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990782	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990781	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990780	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990779	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990778	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990777	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990776	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990775	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990774	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
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15990772	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990771	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990770	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990769	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990768	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990767	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990766	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990765	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990764	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990763	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990762	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990761	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990760	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990759	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990758	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15990757	049-8049184459	LAKESIDE PROCESS CONTROLS LTD	79775
15770050	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770049	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770048	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770047	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770046	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770045	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770044	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770043	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770042	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770041	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770040	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793



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15770039	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770038	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770037	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770036	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770035	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770034	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770033	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770032	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15770031	049-8049176655	LAKESIDE PROCESS CONTROLS LTD	27793
15619168	049-8049167637	LAKESIDE PROCESS CONTROLS LTD	50333
15619167	049-8049167637	LAKESIDE PROCESS CONTROLS LTD	50333
15619166	049-8049167637	LAKESIDE PROCESS CONTROLS LTD	50333
15619165	049-8049167637	LAKESIDE PROCESS CONTROLS LTD	50333
15619164	049-8049167637	LAKESIDE PROCESS CONTROLS LTD	50333
15619163	049-8049167637	LAKESIDE PROCESS CONTROLS LTD	50333
15619162	049-8049167637	LAKESIDE PROCESS CONTROLS LTD	50333
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15619156	049-8049167637	LAKESIDE PROCESS CONTROLS LTD	50333
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15618470	049-8049167585	LAKESIDE PROCESS CONTROLS LTD	50334
15618469	049-8049167585	LAKESIDE PROCESS CONTROLS LTD	50334
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15618466	049-8049167585	LAKESIDE PROCESS CONTROLS LTD	50334
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15591249	049-8049165830	LAKESIDE PROCESS CONTROLS LTD	46060
15591248	049-8049165830	LAKESIDE PROCESS CONTROLS LTD	46060
15590695	049-8049165756	LAKESIDE PROCESS CONTROLS LTD	46574
15590694	049-8049165756	LAKESIDE PROCESS CONTROLS LTD	46574
15590693	049-8049165756	LAKESIDE PROCESS CONTROLS LTD	46574
15590692	049-8049165756	LAKESIDE PROCESS CONTROLS LTD	46574
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15590690	049-8049165756	LAKESIDE PROCESS CONTROLS LTD	46574
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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F000687129	067L-ZNM7329197	LAURENTIDE CONTROLS LTD	4500410785
F000687128	067L-ZNM7329197	LAURENTIDE CONTROLS LTD	4500410785
F000687127	067L-ZNM7329197	LAURENTIDE CONTROLS LTD	4500410785
F000556913	067L-ZNM7318023	LAURENTIDE CONTROLS LTD	4500403499
F000556912	067L-ZNM7318023	LAURENTIDE CONTROLS LTD	4500403499
F000556911	067L-ZNM7318023	LAURENTIDE CONTROLS LTD	4500403499
F000556910	067L-ZNM7318023	LAURENTIDE CONTROLS LTD	4500403499
F000556909	067L-ZNM7318023	LAURENTIDE CONTROLS LTD	4500403499
20110979	067A-FNM7090910	LAURENTIDE CONTROLS LTD	4500346385
20110978	067A-FNM7090910	LAURENTIDE CONTROLS LTD	4500346385
17606328-17606335	067L-FM67137855	LAURENTIDE CONTROLS LTD	4501522014
17083535-17083547	067L-FN67112352	LAURENTIDE CONTROLS LTD	4501112195/HYDRO
FDM0023598	067L-ZNM7290707	LAURENTIDE 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
16260671	067A-C767069583	NEW BRUNSWICK POWER	4500139909
16260670	067A-C767069583	NEW BRUNSWICK POWER	4500139909
16260669	067A-C767069583	NEW BRUNSWICK POWER	4500139909
16260668	067A-C767069583	NEW BRUNSWICK POWER	4500139909
16260667	067A-C767069583	NEW BRUNSWICK POWER	4500139909
16260666	067A-C767069583	NEW BRUNSWICK POWER	4500139909
16260665	067A-C767069583	NEW BRUNSWICK POWER	4500139909
16260664	067A-C767069583	NEW BRUNSWICK POWER	4500139909
16260663	067A-C767069583	NEW BRUNSWICK POWER	4500139909
16260662	067A-C767069583	NEW BRUNSWICK POWER	4500139909
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