Base Load Power Hub (BLPH)

INPUT/OUTPUT LIST
Water Treatment Package A-50000

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Document Class: 2

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Rev.	Date	Description	Prepared	Reviewed	Approved

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Revision / Change Log

Rev.	Description
00	ISSUE FOR REVIEW (IFR)
01	ISSUE FOR REVIEW (IFR)
02	ACCEPTED FOR CONSTRUCTION (AFC)
03	ACCEPTED FOR CONSTRUCTION (AFC)

HOLDS LIST

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Legend

COLUMN	MEANING AND VALUES
STATUS	Status of the signal from the following table: ACTIVE Signal present and used DELETED Signal deleted from previous issue NEW Signal added from previous issue
TYPE	Type of signal composed by: A for analog signals; D for digital signals; RTD for temperature signals. I for input signals; O for output signals. An R in the type means that the signal is redundant.
SIGNAL	Electrical characteristic of signal from the control system point of view.
WIRING/ POWER SUPPLY	Type of connection (2 WIRE / 4 WIRE) for analog signal and requirements for external power supplies are listed here. Details are in the control panel wiring diagram.

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ID	STATUS	P&ID	LOOP NAME	P&ID TAG	CONTROLLER TAG	SERVICE	TYPE	SIGNAL	MIN/0 STATE	MAX/1 STATE	EU	REDUNDANT	HART	SIL	I.S.	PANEL	RACK	SLOT	SLOT R	CHANNEL	ADDRESS	WIRING / POWER SUPPLY	NOTE	
1	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-021	50-XZSH-021	_50XZSH021	P-50003A suction valve open	DI	SINK 24VDC	NOT OPEN	OPEN	-	NO	NO	NO	NO	50-LP-001	1	1	-	0				DI
2	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-021	50-XZSL-021	_50XZSL021	P-50003A suction valve closed	DI	SINK 24VDC	NOT CLOSED	CLOSED	-	NO	NO	NO	NO	50-LP-001	1	1	-	1				DI
3	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-023	50-XZSH-023	_50XZSH023	P-50003A flushing valve open	DI	SINK 24VDC	NOT OPEN	OPEN	-	NO	NO	NO	NO	50-LP-001	1	1	-	2				DI
4	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-023	50-XZSL-023	_50XZSL023	P-50003A flushing valve closed	DI	SINK 24VDC	NOT CLOSED	CLOSED	-	NO	NO	NO	NO	50-LP-001	1	1	-	3				DI
5	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-50003A	50-XI-P50003A	_50XIP50003A	SW booster pump run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	1	-	4				DI
6	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-50003A	50-XA-P50003A	_50XAP50003A	SW booster pump available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	1	-	5				DI
7	ACTIVE	1724000448-PR-PID-00013 / 001	50-T-020	50-TSHH-020	_50TSHH020	H-50001 temperature	DI	SINK 24VDC	ALARM	NORMAL	-	NO	NO	NO	NO	50-LP-001	1	1	-	6				DI
8	ACTIVE	1724000448-PR-PID-00013 / 001	50-X-020	50-XZSH-020	_50XZSH020	Seawater inlet valve open	DI	SINK 24VDC	NOT OPEN	OPEN	-	NO	NO	NO	NO	50-LP-001	1	1	-	7				DI
9	ACTIVE	1724000448-PR-PID-00013 / 001	50-X-020	50-XZSL-020	_50XZSL020	Seawater inlet valve closed	DI	SINK 24VDC	NOT CLOSED	CLOSED	-	NO	NO	NO	NO	50-LP-001	1	1	-	8				DI
10	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003A	50-XI-HHS50003A1	_50XIHHS50003A1	Container electrical heater run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	1	-	9				DI
11	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003A	50-XA-HHS50003A1	_50XAHHS50003A1	Container electrical heater available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	1	-	10				DI
12	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003A	50-XI-HFA50001A	_50XIHFA50001A	Container air fan run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	1	-	11				DI
13	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003A	50-XA-HFA50001A	_50XAHFA50001A	Container air fan available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	1	-	12				DI
14	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	1	-	13				DISPARE
15	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	1	-	14				DISPARE
16	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	1	-	15				DISPARE
17	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-022	50-XZSH-022	_50XZSH022	P-50003B suction valve open	DI	SINK 24VDC	NOT OPEN	OPEN	-	NO	NO	NO	NO	50-LP-001	1	2	-	0				DI
18	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-022	50-XZSL-022	_50XZSL022	P-50003B suction valve closed	DI	SINK 24VDC	NOT CLOSED	CLOSED	-	NO	NO	NO	NO	50-LP-001	1	2	-	1				DI
19	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-024	50-XZSH-024	_50XZSH024	P-50003B flushing valve open	DI	SINK 24VDC	NOT OPEN	OPEN	-	NO	NO	NO	NO	50-LP-001	1	2	-	2				DI
20	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-024	50-XZSL-024	_50XZSL024	P-50003B flushing valve closed	DI	SINK 24VDC	NOT CLOSED	CLOSED	-	NO	NO	NO	NO	50-LP-001	1	2	-	3				DI
21	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-50003B	50-XI-P50003B	_50XIP50003B	SW booster pump run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	2	-	4				DI
22	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-50003B	50-XA-P50003B	_50XAP50003B	SW booster pump available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE		NO	NO	NO	NO	50-LP-001	1	2	-	5				DI
23	ACTIVE	1724000448-PR-PID-00013 / 002	50-H-020	50-HS-020	_50HS020	Emergency stop pushbutton	DI	SINK 24VDC	EMERGENCY	NORMAL	-	NO	NO	NO	NO	50-LP-001	1	2	-	6				DI
24	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-001	50-XS-001	_50XS001	Shutdown	DI	SINK 24VDC	SHUTDOWN	NORMAL	-	NO	NO	NO	NO	50-LP-001	1	2	-	7			Contact replicated from SIL relay	DI
25	ACTIVE	1724000448-PR-PID-00013 / 001	50-A-50003	50-XA-A50003	_50XAA50003	Seawater coarse filter cumulative alarm	DI	SINK 24VDC	ALARM	NORMAL	-	NO	NO	NO	NO	50-LP-001	1	2	-	8				DI
26	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003A	50-XI-HHS50003A2	_50XIHHS50003A2	Container electrical heater run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	2	-	9				DI
27	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003A	50-XA-HHS50003A2	_50XAHHS50003A2	Container electrical heater available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	2	-	10				DI
28	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003A	50-XI-HFA50003B	_50XIHFA50003B	Container air fan run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	2	-	11				DI
29	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003A	50-XA-HFA50003B	_50XAHFA50003B	Container air fan available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	2	-	12				DI
30	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	2	-	13				DISPARE
31	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	2	-	14				DISPARE
32	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	2	-	15				DISPARE
33	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-025	50-XZSH-025	_50XZSH025	Fresh water from A-50007A/B valve open	DI	SINK 24VDC	NOT OPEN	OPEN	-	NO	NO	NO	NO	50-LP-001	1	3	-	0				DI
34	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-025	50-XZSL-025	_50XZSL025	Fresh water from A-50007A/B valve closed	DI	SINK 24VDC	NOT CLOSED	CLOSED	-	NO	NO	NO	NO	50-LP-001	1	3	-	1				DI
35	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-027	50-XZSH-027	_50XZSH027	Brine from A-50007A valve open	DI	SINK 24VDC	NOT OPEN	OPEN	-	NO	NO	NO	NO	50-LP-001	1	3	-	2				DI
36	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-027	50-XZSL-027	_50XZSL027	Brine from A-50007A valve closed	DI	SINK 24VDC	NOT CLOSED	CLOSED	-	NO	NO	NO	NO	50-LP-001	1	3	-	3				DI
37	ACTIVE	1724000448-PR-PID-00013 / 004	50-X-031	50-XZSH-031	_50XZSH031	Fresh water outlet valve open	DI	SINK 24VDC	NOT OPEN	OPEN	-	NO	NO	NO	NO	50-LP-001	1	3	-	4				DI
38	ACTIVE	1724000448-PR-PID-00013 / 004	50-X-031	50-XZSL-031	_50XZSL031	Fresh water outlet valve closed	DI	SINK 24VDC	NOT CLOSED	CLOSED	-	NO	NO	NO	NO	50-LP-001	1	3	-	5				DI
39	ACTIVE	1724000448-PR-PID-00013 / 001	50-P-50002A	50-XI-P50002A	_50XIP50002A	Backwash pump run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	3	-	6				DI
40	ACTIVE	1724000448-PR-PID-00013 / 001	50-P-50002A	50-XA-P50002A	_50XAP50002A	Backwash pump available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	3	-	7				DI
41	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-50004A	50-XS-P50004A	_50XSP50004A	HP pump run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	3	-	8				DI
42	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-50004A	50-XA-P50004A	_50XAP50004A	HP pump available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	3	-	9				DI
43	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	3	-	10				DISPARE
44	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	3	-	11				DISPARE
45	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	3	-	12				DISPARE
46	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	3	-	13				DISPARE
47	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	3	-	14				DISPARE
48	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	3	-	15				DISPARE
49	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-026	50-XZSH-026	_50XZSH026	Fresh water drain from A-50007A/B valve open	DI	SINK 24VDC	NOT OPEN	OPEN	-	NO	NO	NO	NO	50-LP-001	1	4	-	0				DI
50	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-026	50-XZSL-026	_50XZSL026	Fresh water drain from A-50007A/B valve closed	DI	SINK 24VDC	NOT CLOSED	CLOSED	-	NO	NO	NO	NO	50-LP-001	1	4	-	1				DI
51	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-030	50-XZSH-030	_50XZSH030	Brine from A-50007B valve open	DI	SINK 24VDC	NOT OPEN	OPEN	-	NO	NO	NO	NO	50-LP-001	1	4	-	2				DI
52	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-030	50-XZSL-030	_50XZSL030	Brine from A-50007B valve closed	DI	SINK 24VDC	NOT CLOSED	CLOSED	-	NO	NO	NO	NO	50-LP-001	1	4	-	3				DI
53	ACTIVE	1724000448-PR-PID-00013 / 004	50-X-032	50-XSZH-032	_50XSZH032	Fresh water off-spec valve open	DI	SINK 24VDC	NOT OPEN	OPEN	-	NO	NO	NO	NO	50-LP-001	1	4	-	4				DI
54	ACTIVE	1724000448-PR-PID-00013 / 004	50-X-032	50-XZSL-032	_50XZSL032	Fresh water off-spec valve closed	DI	SINK 24VDC	NOT CLOSED	CLOSED	-	NO	NO	NO	NO	50-LP-001	1	4	-	5				DI
55	ACTIVE	1724000448-PR-PID-00013 / 001	50-P-50002B	50-XI-P50002B	_50XIP50002B	Backwash pump run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	4	-	6				DI
56	ACTIVE	1724000448-PR-PID-00013 / 001	50-P-50002B	50-XA-P50002B	_50XAP50002B	Backwash pump available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	4	-	7				DI
57	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-50004B	50-XI-P50004B	_50XIP50004B	HP pump run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	4	-	8				DI
58	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-50004B	50-XA-P50004B	_50XAP50004B	HP pump available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	4	-	9				DI
59	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	4	-	10				DISPARE
60	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	4	-	11				DISPARE
61	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	4	-	12				DISPARE
62	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	4	-	13				DISPARE
63	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	4	-	14				DISPARE
64	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	4	-	15				DISPARE
65	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50005A	50-XI-P50005A	_50XIP50005A	Caustic soda dosing pump run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	5	-	0				DI
66	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50005A	50-XA-P50005A	_50XAP50005A	Caustic soda dosing pump available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE		NO	NO	NO	NO	50-LP-001	1	5	-	1				DI
67	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50006A	50-XI-P50006A	_50XIP50006A	Antiscalant dosing pump run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	5	-	2				DI
68	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50006A	50-XA-P50006A	_50XAP50006A	Antiscalant dosing pump available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	5	-	3				DI

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69	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50007A	50-XI-P50007A	_50XIP50007A	Non-oxidant biocide dosing pump - container inlet run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	5	-	4			DI
70	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50007A	50-XA-P50007A	_50XAP50007A	Non-oxidant biocide dosing pump - container inlet available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	5	-	5			DI
71	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50008A	50-XI-P50008A	_50XIP50008A	Non-oxidant biocide dosing pump - sea water intake run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	5	-	6			DI
72	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50008A	50-XA-P50008A	_50XAP50008A	Non-oxidant biocide dosing pump - sea water intake available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	5	-	7			DI
73	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-50009A	50-XI-P50009A	_50XIP50009A	Fresh water pump run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	5	-	8			DI
74	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-50009A	50-XA-P50009A	_50XAP50009A	Fresh water pump available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	5	-	9			DI
75	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50010A	50-XI-P50010A	_50XIP50010A	Non-oxidant biocide dosing pump - waste water tank run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	5	-	10			DI
76	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50010A	50-XA-P50010A	_50XAP50010A	Non-oxidant biocide dosing pump - waste water tank available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	5	-	11			DI
77	ACTIVE	1724000448-PR-PID-00013 / 001	50-S-50001	50-XA-S50001	_50XAS50001	Sand filter cumulative alarm	DI	SINK 24VDC	ALARM	NORMAL	-	NO	NO	NO	NO	50-LP-001	1	5	-	12			DI
78	ACTIVE	1724000448-PR-PID-00013 / 004	50-S-50004	50-XS-S50004	_50XSS50004	Softening Filter regeneration in progress	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	5	-	13			DI
79	ACTIVE	1724000448-PR-PID-00013 / 004	50-A-026	50-XA-026	_50XA026	Fresh water analyzer fault	DI	SINK 24VDC	ALARM	NORMAL	-	NO	NO	NO	NO	50-LP-001	1	5	-	14			DI
80	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	5	-	15			DISPARE
81	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50005B	50-XI-P50005B	_50XIP50005B	Caustic soda dosing pump run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	6	-	0			DI
82	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50005B	50-XA-P50005B	_50XAP50005B	Caustic soda dosing pump available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	6	-	1			DI
83	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50006B	50-XI-P50006B	_50XIP50006B	Antiscalant dosing pump run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	6	-	2			DI
84	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50006B	50-XA-P50006B	_50XAP50006B	Antiscalant dosing pump available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	6	-	3			DI
85	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50007B	50-XI-P50007B	_50XIP50007B	Non-oxidant biocide dosing pump - container inlet run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	6	-	4			DI
86	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50007B	50-XA-P50007B	_50XAP50007B	Non-oxidant biocide dosing pump - container inlet available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	6	-	5			DI
87	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50008B	50-XI-P50008B	_50XIP50008B	Non-oxidant biocide dosing pump - sea water intake run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	6	-	6			DI
88	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50008B	50-XA-P50008B	_50XAP50008B	Non-oxidant biocide dosing pump - sea water intake available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	6	-	7			DI
89	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-50009B	50-XI-P50009B	_50XIP50009B	Fresh water pump run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	6	-	8			DI
90	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-50009B	50-XA-P50009B	_50XAP50009B	Fresh water pump available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	6	-	9			DI
91	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50010B	50-XI-P50010B	_50XIP50010B	Non-oxidant biocide dosing pump - waste water tank run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	6	-	10			DI
92	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50010B	50-XA-P50010B	_50XAP50010B	Non-oxidant biocide dosing pump - waste water tank available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	6	-	11			DI
93	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	6	-	12			DISPARE
94	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	6	-	13			DISPARE
95	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	6	-	14			DISPARE
96	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	6	-	15			DISPARE
97	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003B	50-XI-HHS50003B1	_50XIHHS50003B1	Container electrical heater run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	7	-	0			DI
98	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003B	50-XA-HHS50003B1	_50XAHHS50003B1	Container electrical heater available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	7	-	1			DI
99	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003B	50-XI-HHS50003B2	_50XIHHS50003B2	Container electrical heater run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	7	-	2			DI
100	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003B	50-XA-HHS50003B2	_50XAHHS50003B2	Container electrical heater available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	7	-	3			DI
101	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003A	50-XI-HHS50003A3	_50XIHHS50003A3	Container electrical heater fan run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	7	-	4			DI
102	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003A	50-XA-HHS50003A3	_50XAHHS50003A3	Container electrical heater fan available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	7	-	5			DI
103	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003B	50-XI-HHS50003B3	_50XIHHS50003B3	Container electrical heater fan run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	7	-	6			DI
104	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003B	50-XA-HHS50003B3	_50XAHHS50003B3	Container electrical heater fan available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	7	-	7			DI
105	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003C	50-XI-HFA50001C	_50XIHFA50001C	Container air fan run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	7	-	8			DI
106	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003C	50-XA-HFA50001C	_50XAHFA50001C	Container air fan available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	7	-	9			DI
107	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50001	50-XI-H50001	_50XIH50001	Electrical heater run status	DI	SINK 24VDC	NOT RUN	RUN	-	NO	NO	NO	NO	50-LP-001	1	7	-	10			DI
108	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50001	50-XA-H50001	_50XAH50001	Electrical heater available status	DI	SINK 24VDC	NOT AVAILABLE	AVAILABLE	-	NO	NO	NO	NO	50-LP-001	1	7	-	11			DI
109	ACTIVE		196SL1	196SL1	_196SL1	Container flooding alarm	DI	SINK 24VDC	ALARM	NORMAL	-	NO	NO	NO	NO	50-LP-001	1	7	-	12			DI
110	ACTIVE	1724000448-PR-PID-00013 / 002	50-H-50001	50-HSA-50001	_50HSA50001	Switch ON/OFF lamp/fan	DI	SINK 24VDC	OFF	ON	-	NO	NO	NO	NO	50-LP-001	1	7	-	13			DI
111	ACTIVE		30SP1/32SP1	30SP1/32SP1	_30SP1/32SP1	Voltage dischargers common fault	DI	SINK 24VDC	ALARM	NORMAL	-	NO	NO	NO	NO	50-LP-001	1	7	-	14			DI
112	ACTIVE		36GD1/36GD2	36GD1/36GD2	_36GD1/36GD2	Power feeder common fault	DI	SINK 24VDC	ALARM	NORMAL	-	NO	NO	NO	NO	50-LP-001	1	7	-	15			DI
113	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-033	50-XZSH-033	_50XZSH033	Seawater drain from H-50001 valve open	DI	SINK 24VDC	NOT OPEN	OPEN	-	NO	NO	NO	NO	50-LP-001	1	8	-	0			DI
114	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-033	50-XZSL-033	_50XZSL033	Seawater drain from H-50001 valve closed	DI	SINK 24VDC	NOT CLOSED	CLOSED	-	NO	NO	NO	NO	50-LP-001	1	8	-	1			DI
115	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-034	50-XZSH-034	_50XZSH034	Seawater drain from T-50006 valve open	DI	SINK 24VDC	NOT OPEN	OPEN	-	NO	NO	NO	NO	50-LP-001	1	8	-	2			DI
116	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-034	50-XZSL-034	_50XZSL034	Seawater drain from T-50006 valve closed	DI	SINK 24VDC	NOT CLOSED	CLOSED	-	NO	NO	NO	NO	50-LP-001	1	8	-	3			DI
117	ACTIVE	1724000448-PR-PID-00013 / 005	50-X-035	50-XZSH-035	_50XZSH035	Fresh water from T-50008 drain valve open	DI	SINK 24VDC	NOT OPEN	OPEN	-	NO	NO	NO	NO	50-LP-001	1	8	-	4			DI
118	ACTIVE	1724000448-PR-PID-00013 / 005	50-X-035	50-XZSL-035	_50XZSL035	Fresh water from T-50008 drain valve closed	DI	SINK 24VDC	NOT CLOSED	CLOSED	-	NO	NO	NO	NO	50-LP-001	1	8	-	5			DI
119	ACTIVE			_		SPARE	DI	SINK 24VDC	NOT OPEN	OPEN	-	NO	NO	NO	NO	50-LP-001	1	8	-	6			DISPARE
120	ACTIVE			_		SPARE	DI	SINK 24VDC	NOT CLOSED	CLOSED	-	NO	NO	NO	NO	50-LP-001	1	8	-	7			DISPARE
121	ACTIVE			_		SPARE	DI	SINK 24VDC	NOT OPEN	OPEN	-	NO	NO	NO	NO	50-LP-001	1	8	-	8			DISPARE
122	ACTIVE			_		SPARE	DI	SINK 24VDC	NOT CLOSED	CLOSED	-	NO	NO	NO	NO	50-LP-001	1	8	-	9			DISPARE
123	ACTIVE			_		SPARE	DI	SINK 24VDC	NOT OPEN	OPEN	-	NO	NO	NO	NO	50-LP-001	1	8	-	10			DISPARE
124	ACTIVE			_		SPARE	DI	SINK 24VDC	NOT CLOSED	CLOSED	-	NO	NO	NO	NO	50-LP-001	1	8	-	11			DISPARE
125	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	8	-	12			DISPARE
126	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	8	-	13			DISPARE
127	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	8	-	14			DISPARE
128	ACTIVE					SPARE	DI	SINK 24VDC								50-LP-001	1	8	-	15			DISPARE
129	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-021	50-XY-021	_50XY021	P-50003A suction valve command	DO	24VDC	CLOSE	OPEN	-	NO	NO	NO	NO	50-LP-001	1	9	-	0			DO
130	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-023	50-XY-023	_50XY023	P-50003A flushing valve command	DO	24VDC	CLOSE	OPEN		NO	NO	NO	NO	50-LP-001	1	9	-	1			DO
131	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-50003A	50-HS-P50003A	_50HSP50003A	SW booster pump start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	9	-	2			DO
132	ACTIVE	1724000448-PR-PID-00013 / 001	50-X-020	50-XY-020	_50XY020	Seawater inlet valve command	DO	24VDC	CLOSE	OPEN	-	NO	NO	NO	NO	50-LP-001	1	9	-	3			DO
133	ACTIVE	1724000448-PR-PID-00013 / 001	50-A-50003	50-HS-A50003	_50HSA50003	Seawater coarse filter regeneration command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	9	-	4			DO
134	ACTIVE	1724000448-PR-PID-00013 / 001	50-S-50001	50-HS-S50001	_50HSS50001	Sand filter regeneration command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	9	-	5			DO
135	ACTIVE	1724000448-PR-PID-00013 / 004	50-S-50004	50-HS-S50004	_50HSS50004	Softening Filter regeneration command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	9	-	6			DO
136	ACTIVE	1724000448-PR-PID-00013 / 004	50-S-50010	50-HS-S50010	_50HSS50010	UV sterilizer start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	9	-	7			DO
137	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-003	50-XA-003	_50XA003	Fault	DO	24VDC	FAULT	NORMAL	-	NO	NO	NO	NO	50-LP-001	1	9	-	8			DO
138	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-025	50-XY-025	_50XY025	Fresh water from A-50007A/B valve command	DO	24VDC	CLOSE	OPEN	-	NO	NO	NO	NO	50-LP-001	1	9	-	9			DO

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139	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-026	50-XY-026	_50XY026	Fresh water drain from A-50007A/B valve command	DO	24VDC	CLOSE	OPEN	-	NO	NO	NO	NO	50-LP-001	1	9	-	10				DO
140	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-027	50-XY-027	_50XY027	Brine from A-50007A valve command	DO	24VDC	CLOSE	OPEN	-	NO	NO	NO	NO	50-LP-001	1	9	-	11				DO
141	ACTIVE	1724000448-PR-PID-00013 / 004	50-X-031	50-XY-031	_50XY031	Fresh water outlet valve command	DO	24VDC	CLOSE	OPEN	-	NO	NO	NO	NO	50-LP-001	1	9	-	12				DO
142	ACTIVE					SPARE	DO	24VDC								50-LP-001	1	9	-	13				DOSPARE
143	ACTIVE					SPARE	DO	24VDC								50-LP-001	1	9	-	14				DOSPARE
144	ACTIVE					SPARE	DO	24VDC								50-LP-001	1	9	-	15				DOSPARE
145	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-024	50-XY-024	_50XY024	P-50003B flushing valve command	DO	24VDC	CLOSE	OPEN	-	NO	NO	NO	NO	50-LP-001	1	10	-	0				DO
146	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-022	50-XY-022	_50XY022	P-50003B suction valve command	DO	24VDC	CLOSE	OPEN	-	NO	NO	NO	NO	50-LP-001	1	10	-	1				DO
147	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-50003B	50-HS-P50003B	_50HSP50003B	SW booster pump start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	10	-	2				DO
148	ACTIVE	1724000448-PR-PID-00013 / 001	50-P-50002A	50-HS-P50002A	_50HSP50002A	Backwash pump start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	10	-	3				DO
149	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-50004A	50-HS-P50004A	_50HSP50004A	HP pump start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	10	-	4				DO
150	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50005A	50-HS-P50005A	_50HSP50005A	Caustic soda dosing pump start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	10	-	5				DO
151	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50006A	50-HS-P50006A	_50HSP50006A	Antiscalant dosing pump start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	10	-	6				DO
152	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50007A	50-HS-P50007A	_50HSP50007A	Non-oxidant biocide dosing pump - container inlet start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	10	-	7				DO
153	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50008A	50-HS-P50008A	_50HSP50008A	Non-oxidant biocide dosing pump - sea water intake start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	10	-	8				DO
154	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-50009A	50-HS-P50009A	_50HSP50009A	Fresh water pump start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	10	-	9				DO
155	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50010A	50-HS-P50010A	_50HSP50010A	Non-oxidant biocide dosing pump - waste water tank start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	10	-	10				DO
156	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003A	50-HS-HHS50003A1	_50HSHHS50003A1	Container electrical heater start/stop command	DO	24VDC	STOP	START		NO	NO	NO	NO	50-LP-001	1	10	-	11				DO
157	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003A	50-HS-HFA50001A	_50HSHFA50001A	Container air fan start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	10	-	12				DO
158	ACTIVE	1724000448-PR-PID-00013 / 004	50-X-032	50-XY-032	_50XY032	Fresh water off-spec valve command	DO	24VDC	CLOSE	OPEN	-	NO	NO	NO	NO	50-LP-001	1	10	-	13				DO
159	ACTIVE					SPARE	DO	24VDC								50-LP-001	1	10	-	14				DOSPARE
160	ACTIVE					SPARE	DO	24VDC								50-LP-001	1	10	-	15				DOSPARE
161	ACTIVE					SPARE	DO	24VDC								50-LP-001	1	11	-	0				DOSPARE
162	ACTIVE					SPARE	DO	24VDC								50-LP-001	1	11	-	1				DOSPARE
163	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-030	50-XY-030	_50XY030	Brine from A-50007B valve command	DO	24VDC	CLOSE	OPEN	-	NO	NO	NO	NO	50-LP-001	1	11	-	2				DO
164	ACTIVE	1724000448-PR-PID-00013 / 001	50-P-50002B	50-HS-P50002B	_50HSP50002B	Backwash pump start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	11	-	3				DO
165	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-50004B	50-HS-P50004B	_50HSP50004B	HP pump start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	11	-	4				DO
166	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50005B	50-HS-P50005B	_50HSP50005B	Caustic soda dosing pump start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	11	-	5				DO
167	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50006B	50-HS-P50006B	_50HSP50006B	Antiscalant dosing pump start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	11	-	6				DO
168	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50007B	50-HS-P50007B	_50HSP50007B	Non-oxidant biocide dosing pump - container inlet start/stop command	DO	24VDC	STOP	START		NO	NO	NO	NO	50-LP-001	1	11	-	7				DO
169	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50008B	50-HS-P50008B	_50HSP50008B	Non-oxidant biocide dosing pump - sea water intake start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	11	-	8				DO
170	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-50009B	50-HS-P50009B	_50HSP50009B	Fresh water pump start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	11	-	9				DO
171	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50010B	50-HS-P50010B	_50HSP50010B	Non-oxidant biocide dosing pump - waste water tank start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	11	-	10				DO
172	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003A	50-HS-HHS50003A2	_50HSHHS50003A2	Container electrical heater start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	11	-	11				DO
173	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003B	50-HS-HFA50001B	_50HSHFA50001B	Container air fan start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	11	-	12				DO
174	ACTIVE					SPARE	DO	24VDC								50-LP-001	1	11	-	13				DOSPARE
175	ACTIVE					SPARE	DO	24VDC								50-LP-001	1	11	-	14				DOSPARE
176	ACTIVE					SPARE	DO	24VDC								50-LP-001	1	11	-	15				DOSPARE
177	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003B	50-HS-HHS50003B1	_50HSHHS50003B1	Container electrical heater start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	12	-	0				DO
178	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003B	50-HS-HHS50003B2	_50HSHHS50003B2	Container electrical heater start/stop command	DO	24VDC	STOP	START		NO	NO	NO	NO	50-LP-001	1	12	-	1				DO
179	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003A	50-HS-HHS50003A3	_50HSHHS50003A3	Container electrical heater fan start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	12	-	2				DO
180	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003B	50-HS-HHS50003B3	_50HSHHS50003B3	Container electrical heater fan start/stop command	DO	24VDC	STOP	START		NO	NO	NO	NO	50-LP-001	1	12	-	3				DO
181	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003C	50-HS-HFA50001C	_50HSHFA50001C	Container air fan start/stop command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	12	-	4				DO
182	ACTIVE					SPARE	DO	24VDC								50-LP-001	1	12	-	5				DOSPARE
183	ACTIVE					SPARE	DO	24VDC								50-LP-001	1	12	-	6				DOSPARE
184	ACTIVE					SPARE	DO	24VDC								50-LP-001	1	12	-	7				DOSPARE
185	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-033	50-XY-033	_50XY033	Seawater drain from H-50001 valve command	DO	24VDC	CLOSE	OPEN		NO	NO	NO	NO	50-LP-001	1	12	-	8				DO
186	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-034	50-XY-034	_50XY034	Seawater drain from T-50006 valve command	DO	24VDC	CLOSE	OPEN	-	NO	NO	NO	NO	50-LP-001	1	12	-	9				DO
187	ACTIVE	1724000448-PR-PID-00013 / 005	50-X-035	50-XY-035	_50XY035	Fresh water drain from T-50008 valve command	DO	24VDC	CLOSE	OPEN	-	NO	NO	NO	NO	50-LP-001	1	12	-	10				DO
188	ACTIVE	1724000448-PR-PID-00013 / 004	50-A-026	50-HS-026	_50HS026	Fresh water analyzer command	DO	24VDC	STOP	START	-	NO	NO	NO	NO	50-LP-001	1	12	-	11				DO
189	ACTIVE					SPARE	DO	24VDC								50-LP-001	1	12	-	12				DOSPARE
190	ACTIVE					SPARE	DO	24VDC								50-LP-001	1	12		13				DOSPARE
191	ACTIVE					SPARE	DO	24VDC								50-LP-001	1	12	-	14				DOSPARE
192	ACTIVE					SPARE	DO	24VDC								50-LP-001	1	12		15				DOSPARE
193	ACTIVE	1724000448-PR-PID-00013 / 002	50-A-023	50-AT-023	_50AT023	Filtered seawater conductivity to P-50003A/B	AI	4-20 mA			0	80000	uS/cm	NO	NO	NO	NO	50-LP-001	1	13	-	0			AI
194	ACTIVE	1724000448-PR-PID-00013 / 003	50-A-024	50-AT-024	_50AT024	Fresh water conductivity from A-50007A/B	AI	4-20 mA			0	1000	uS/cm	NO	NO	NO	NO	50-LP-001	1	13	-	1			AI
195	ACTIVE	1724000448-PR-PID-00013 / 001	50-F-020	50-FT-020	_50FT020	Seawater flow to S-50001	AI	4-20 mA			0	8	m3/h	NO	NO	NO	NO	50-LP-001	1	13	-	2			AI
196	ACTIVE	1724000448-PR-PID-00013 / 001	50-P-020	50-PT-020	_50PT020	Seawater inlet pressure	AI	4-20 mA			0	6	bar	NO	NO	NO	NO	50-LP-001	1	13	-	3			AI
197	ACTIVE	1724000448-PR-PID-00013 / 004	50-F-027	50-FT-026	_50FT026	Fresh water outlet flow	AI	4-20 mA			0	2	m3/h	NO	NO	NO	NO	50-LP-001	1	13	-	4			AI
198	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-50004A	50-SI-P50004A	_50SIP50004A	HP pump speed feedback	AI	4-20 mA			0	100	%	NO	NO	NO	NO	50-LP-001	1	13	-	5			AI
199	ACTIVE					SPARE	AI	4-20 mA										50-LP-001	1	13	-	6			AISPARE
200	ACTIVE					SPARE	AI	4-20 mA										50-LP-001	1	13	-	7			AISPARE
201	ACTIVE	1724000448-PR-PID-00013 / 002	50-F-022	50-FT-022	_50FT022	Filtered seawater flow from P-50003A	AI	4-20 mA			0	4	m3/h	NO	NO	NO	NO	50-LP-001	1	14	-	0			AI
202	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-025	50-PT-025	_50PT025	Filtered seawater pressure from P-50003A	AI	4-20 mA			0	6	bar	NO	NO	NO	NO	50-LP-001	1	14	-	1			AI
203	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-026	50-PT-026	_50PT026	Filtered seawater pressure to P-50004A	AI	4-20 mA			0	6	bar	NO	NO	NO	NO	50-LP-001	1	14	-	2			AI
204	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-030	50-PT-030	_50PT030	Filtered seawater pressure from P-50004A	AI	4-20 mA			0	100	bar	NO	NO	NO	NO	50-LP-001	1	14	-	3			AI
205	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-50004B	50-SI-P50004B	_50SIP50004B	HP pump speed feedback	AI	4-20 mA			0	100	%	NO	NO	NO	NO	50-LP-001	1	14	-	4			AI
206	ACTIVE					SPARE	AI	4-20 mA										50-LP-001	1	14	-	5			AISPARE
207	ACTIVE					SPARE	AI	4-20 mA										50-LP-001	1	14	-	6			AISPARE
208	ACTIVE					SPARE	AI	4-20 mA										50-LP-001	1	14	-	7			AISPARE

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209	ACTIVE	1724000448-PR-PID-00013 / 002	50-F-023	50-FT-023	_50FT023	Filtered seawater flow from P-50003B	AI	4-20 mA		0	4 m3/h	NO	NO	NO	NO	50-LP-001	1	15	-	0					AI
210	ACTIVE	1724000448-PR-PID-00013 / 003	50-F-024	50-FT-024	_50FT024	Fresh water flow from A-50007A/B	AI	4-20 mA		0	2 m3/h	NO	NO	NO	NO	50-LP-001	1	15	-	1					AI
211	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-027	50-PT-027	_50PT027	Filtered seawater pressure from P-50003B	AI	4-20 mA		0	6 bar	NO	NO	NO	NO	50-LP-001	1	15	-	2					AI
212	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-028	50-PT-028	_50PT028	Filtered seawater pressure to P-50004B	AI	4-20 mA		0	6 bar	NO	NO	NO	NO	50-LP-001	1	15	-	3					AI
213	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-032	50-PT-032	_50PT032	Filtered seawater pressure from P-50004B	AI	4-20 mA		0	100 bar	NO	NO	NO	NO	50-LP-001	1	15	-	4					AI
214	ACTIVE					SPARE	AI	4-20 mA								50-LP-001	1	15	-	5					AISPARE
215	ACTIVE					SPARE	AI	4-20 mA								50-LP-001	1	15	-	6					AISPARE
216	ACTIVE					SPARE	AI	4-20 mA								50-LP-001	1	15	-	7					AISPARE
217	ACTIVE	1724000448-PR-PID-00013 / 001	50-T-021	50-TT-021	_50TT021	Seawater temperature from H-50001	AI	4-20 mA		0	50 degC	NO	NO	NO	NO	50-LP-001	1	16	-	0					AI
218	ACTIVE	1724000448-PR-PID-00013 / 001	50-L-020	50-LT-020	_50LT020	T-50006 level	AI	4-20 mA		0	1800 mm	NO	NO	NO	NO	50-LP-001	1	16	-	1					AI
219	ACTIVE	1724000448-PR-PID-00013 / 004	50-L-021	50-LT-021	_50LT021	T-50008 level	AI	4-20 mA		0	1800 mm	NO	NO	NO	NO	50-LP-001	1	16	-	2					AI
220	ACTIVE	1724000448-PR-PID-00013 / 005	50-L-022	50-LT-022	_50LT022	T-50002 level	AI	4-20 mA		0	1000 mm	NO	NO	NO	NO	50-LP-001	1	16	-	3					AI
221	ACTIVE	1724000448-PR-PID-00013 / 005	50-L-023	50-LT-023	_50LT023	T-50003 level	AI	4-20 mA		0	500 mm	NO	NO	NO	NO	50-LP-001	1	16	-	4					AI
222	ACTIVE	1724000448-PR-PID-00013 / 006	50-L-024	50-LT-024	_50LT024	T-50004 level	AI	4-20 mA		0	1000 mm	NO	NO	NO	NO	50-LP-001	1	16	-	5					AI
223	ACTIVE	1724000448-PR-PID-00013 / 001	50-P-050	50-PT-050	_50PT050	Pressure inlet S-50001	AI	4-20 mA		0	6 bar	NO	NO	NO	NO	50-LP-001	1	16	-	6					AI
224	ACTIVE					SPARE	AI	4-20 mA								50-LP-001	1	16	-	7					AISPARE
225	ACTIVE	1724000448-PR-PID-00013 / 001	50-T-022	50-TT-022	_50TT022	Seawater temperature from H-50001	AI	4-20 mA		0	50 degC	NO	NO	NO	NO	50-LP-001	1	17	-	0					AI
226	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-041	50-PT-041	_50PT041	Fresh water outlet pressure	AI	4-20 mA		0	6 bar	NO	NO	NO	NO	50-LP-001	1	17	-	1					AI
227	ACTIVE	1724000448-PR-PID-00013 / 004	50-T-024	50-TT-024	_50TT024	Fresh water outlet temperature	AI	4-20 mA		0	50 degC	NO	NO	NO	NO	50-LP-001	1	17	-	2					AI
228	ACTIVE	1724000448-PR-PID-00013 / 004	50-A-026	50-AT-026	_50AT026	Fresh water outlet total hardness	AI	4-20 mA		0	25 ppm CaCC	NO	NO	NO	NO	50-LP-001	1	17	-	3					AI
229	ACTIVE	1724000448-PR-PID-00013 / 004	50-A-027	50-AT-027	_50AT027	Fresh water outlet pH	AI	4-20 mA		0	14 pH	NO	NO	NO	NO	50-LP-001	1	17	-	4					AI
230	ACTIVE	1724000448-PR-PID-00013 / 001	50-T-023	50-TT-023	_50TT023	Ambient air temperature inside container	AI	4-20 mA		0	50 degC	NO	NO	NO	NO	50-LP-001	1	17	-	5					AI
231	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-047	50-PT-047	_50PT047	Softening filter inlet pressure	AI	4-20 mA		0	6 bar	NO	NO	NO	NO	50-LP-001	1	17	-	6					AI
232	ACTIVE	1724000448-PR-PID-00013 / 001	50-P-051	50-PT-051	_50PT051	Pressure outlet S-50001	AI	4-20 mA		0	6 bar	NO	NO	NO	NO	50-LP-001	1	17	-	7					AI
233	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-50004A	50-SY-P50004A	_50SYP50004A	HP pump speed control	AO	4-20 mA		0	100 %	NO	NO	NO	NO	50-LP-001	1	18	-	0					AO
234	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50005A	50-ZY-P50005A	_50ZYP50005A	Caustic soda dosing pump control	AO	4-20 mA		0	100 %	NO	NO	NO	NO	50-LP-001	1	18	-	1					AO
235	ACTIVE	1724000448-PR-PID-00013 / 001	50-T-021	50-TZ-021	_50TZ021	Seawater temperature from H-50001	AO	4-20 mA		0	100 %	NO	NO	NO	NO	50-LP-001	1	18	-	2					AO
236	ACTIVE					SPARE	AO	4-20 mA								50-LP-001	1	18	-	3					AOSPARE
237	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-50004B	50-SY-P50004B	_50SYP50004B	HP pump speed control	AO	4-20 mA		0	100 %	NO	NO	NO	NO	50-LP-001	1	19	-	0					AO
238	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50005B	50-ZY-P50005B	_50ZYP50005B	Caustic soda dosing pump control	AO	4-20 mA		0	100 %	NO	NO	NO	NO	50-LP-001	1	19	-	1					AO
239	ACTIVE					SPARE	AO	4-20 mA								50-LP-001	1	19	-	2					AOSPARE
240	ACTIVE					SPARE	AO	4-20 mA								50-LP-001	1	19	-	3					AOSPARE
241	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-021	50-HS-021	_50HS021	Manual alarm call point	DI	SINK 24VDC	ALARM	NORMAL		NO	NO	YES	NO	50-LP-002	1	1	-	0					
242	ACTIVE	1724000448-PR-PID-00013 / 001	50-A-021	50-AT-021A	_50AT021A	Fire detection in container	DI	SINK 24VDC	ALARM	NORMAL		NO	NO	YES	NO	50-LP-002	1	1	-	1					
243	ACTIVE	1724000448-PR-PID-00013 / 001	50-A-021	50-AT-021B	_50AT021B	Fire detection in container	DI	SINK 24VDC	ALARM	NORMAL		NO	NO	YES	NO	50-LP-002	1	1	-	2					
244	ACTIVE	1724000448-PR-PID-00013 / 001	50-A-021	50-AT-021C	_50AT021C	Fire detection in container	DI	SINK 24VDC	ALARM	NORMAL		NO	NO	YES	NO	50-LP-002	1	1	-	3					
245	ACTIVE					SPARE	DI	SINK 24VDC				NO	NO	YES	NO	50-LP-002	1	1	-	4					
246	ACTIVE					SPARE	DI	SINK 24VDC				NO	NO	YES	NO	50-LP-002	1	1	-	5					
247	ACTIVE	1724000448-PR-PID-00013 / 001	50-X-001	50-XA-001	_50XA001	Gas confirmed	DO	24VDC	ALARM	NORMAL		NO	NO	YES	NO	50-LP-002	1	2	-	0				Contact generated from SIL relay	
248	ACTIVE	1724000448-PR-PID-00013 / 001	50-X-002	50-XA-002	_50XA002	Smoke confirmed	DO	24VDC	ALARM	NORMAL		NO	NO	YES	NO	50-LP-002	1	2	-	1				Contact generated from SIL relay	
249	ACTIVE					SPARE	DO	24VDC				NO	NO	YES	NO	50-LP-002	1	2	-	2					
250	ACTIVE					SPARE	DO	24VDC				NO	NO	YES	NO	50-LP-002	1	2	-	3					
251	ACTIVE					SPARE	DO	24VDC				NO	NO	YES	NO	50-LP-002	1	2	-	4					
252	ACTIVE					SPARE	DO	24VDC				NO	NO	YES	NO	50-LP-002	1	2	-	5					
253	ACTIVE	1724000448-PR-PID-00013 / 001	50-A-020	50-AT-020A	_50AT020A	H2 gas detection in container	AI	4-20 mA		0	100 % LEL	NO	NO	YES	NO	50-LP-002	1	3	-	0					
254	ACTIVE	1724000448-PR-PID-00013 / 001	50-A-020	50-AT-020B	_50AT020B	H2 gas detection in container	AI	4-20 mA		0	100 % LEL	NO	NO	YES	NO	50-LP-002	1	3	-	1					
255	ACTIVE	1724000448-PR-PID-00013 / 001	50-A-020	50-AT-020C	_50AT020C	H2 gas detection in container	AI	4-20 mA		0	100 % LEL	NO	NO	YES	NO	50-LP-002	1	4	-	0					
256	ACTIVE					SPARE	AI	4-20 mA				NO	NO	YES	NO	50-LP-002	1	5	-	1					

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ID	STATUS	P&ID	LOOP NAME	FIELD TAG/DEVICE	CONTROLLER TAG	SERVICE	ICSS I/O TYPE	TYPE	FORMAT	MIN/0 STATE	MAX/1 STATE	EU	ALARM	ALARM TRESHOLD	ALARM PRIORITY	IP ADDRESS	MODBUS FUNCTION	MODBUS REGISTER	REGISTER BIT	NOTE
1	ACTIVE	1724000448-PR-PID-00013 / 001	50-A-020	50-AT-020A	_50AT020A	H2 gas detection in container	SAI	ANALOG	FLOATING	0	100	% LEL	NO	-	-		3	40001	-	
2	ACTIVE	1724000448-PR-PID-00013 / 001	50-A-020	50-AT-020B	_50AT020B	H2 gas detection in container	SAI	ANALOG	FLOATING	0	100	% LEL	NO	-	-		3	40003	-	SAI
3	ACTIVE	1724000448-PR-PID-00013 / 001	50-A-020	50-AT-020C	_50AT020C	H2 gas detection in container	SAI	ANALOG	FLOATING	0	100	% LEL	NO	-	-		3	40005	-	SAI
4	ACTIVE	1724000448-PR-PID-00013 / 002	50-A-023	50-AT-023	_50AT023	Filtered seawater conductivity to P-50003A/B	SAI	ANALOG	FLOATING	0	80000	uS/cm	NO	-	-		3	40007	-	SAI
5	ACTIVE	1724000448-PR-PID-00013 / 003	50-A-024	50-AT-024	_50AT024	Fresh water conductivity from A-50007A/B	SAI	ANALOG	FLOATING	0	1000	uS/cm	NO	-	-		3	40009	-	SAI
6	ACTIVE	1724000448-PR-PID-00013 / 004	50-A-026	50-AT-026	_50AT026	Fresh water outlet total hardness	SAI	ANALOG	FLOATING	0	25	ppm CaCO3	NO	-	-		3	40011	-	SAI
7	ACTIVE	1724000448-PR-PID-00013 / 004	50-A-027	50-AT-027	_50AT027	Fresh water outlet pH	SAI	ANALOG	FLOATING	0	14	pH	NO	-	-		3	40013	-	SAI
8	ACTIVE	1724000448-PR-PID-00013 / 001	50-F-020	50-FT-020	_50FT020	Seawater flow to S-50001	SAI	ANALOG	FLOATING	0	8	m3/h	NO	-	-		3	40015	-	SAI
9	ACTIVE	1724000448-PR-PID-00013 / 002	50-F-022	50-FT-022	_50FT022	Filtered seawater flow from P-50003A	SAI	ANALOG	FLOATING	0	4	m3/h	NO	-	-		3	40019	-	SAI
10	ACTIVE	1724000448-PR-PID-00013 / 002	50-F-023	50-FT-023	_50FT023	Filtered seawater flow from P-50003B	SAI	ANALOG	FLOATING	0	2	m3/h	NO	-	-		3	40021	-	SAI
11	ACTIVE	1724000448-PR-PID-00013 / 003	50-F-024	50-FT-024	_50FT024	Fresh water flow from A-50007A/B	SAI	ANALOG	FLOATING	0	2	m3/h	NO	-	-		3	40023	-	SAI
12	ACTIVE	1724000448-PR-PID-00013 / 004	50-F-027	50-FT-026	_50FT026	Fresh water outlet flow	SAI	ANALOG	FLOATING	0	4	m3/h	NO	-	-		3	40017	-	SAI
13	ACTIVE	1724000448-PR-PID-00013 / 001	50-L-020	50-LT-020	_50LT020	T-50006 level	SAI	ANALOG	FLOATING	0	1800	mm	NO	-	-		3	40025	-	SAI
14	ACTIVE	1724000448-PR-PID-00013 / 004	50-L-021	50-LT-021	_50LT021	T-50008 level	SAI	ANALOG	FLOATING	0	1800	mm	NO	-	-		3	40027	-	SAI
15	ACTIVE	1724000448-PR-PID-00013 / 005	50-L-022	50-LT-022	_50LT022	T-50002 level	SAI	ANALOG	FLOATING	0	1000	mm	NO	-	-		3	40029	-	SAI
16	ACTIVE	1724000448-PR-PID-00013 / 005	50-L-023	50-LT-023	_50LT023	T-50003 level	SAI	ANALOG	FLOATING	0	500	mm	NO	-	-		3	40031	-	SAI
17	ACTIVE	1724000448-PR-PID-00013 / 006	50-L-024	50-LT-024	_50LT024	T-50004 level	SAI	ANALOG	FLOATING	0	1000	mm	NO	-	-		3	40033	-	
18	ACTIVE	1724000448-PR-PID-00013 / 001	50-P-023	50-PDT-023	_50PDT023	dP across S-50001	SAI	ANALOG	FLOATING	0	1	bar	NO	-	-		3	40035	-	
19	ACTIVE	1724000448-PR-PID-00013 / 001	50-P-020	50-PT-020	_50PT020	Seawater inlet pressure	SAI	ANALOG	FLOATING	0	6	bar	NO	-	-		3	40037	-	SAI
20	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-025	50-PT-025	_50PT025	Filtered seawater pressure from P-50003A	SAI	ANALOG	FLOATING	0	6	bar	NO	-	-		3	40039	-	SAI
21	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-026	50-PT-026	_50PT026	Filtered seawater pressure to P-50004A	SAI	ANALOG	FLOATING	0	6	bar	NO	-	-		3	40041	-	SAI
22	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-027	50-PT-027	_50PT027	Filtered seawater pressure from P-50003B	SAI	ANALOG	FLOATING	0	6	bar	NO	-	-		3	40043	-	SAI
23	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-028	50-PT-028	_50PT028	Filtered seawater pressure to P-50004B	SAI	ANALOG	FLOATING	0	6	bar	NO	-	-		3	40045	-	SAI
24	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-030	50-PT-030	_50PT030	Filtered seawater pressure from P-50004A	SAI	ANALOG	FLOATING	0	100	bar	NO	-	-		3	40047	-	SAI
25	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-032	50-PT-032	_50PT032	Filtered seawater pressure from P-50004B	SAI	ANALOG	FLOATING	0	100	bar	NO	-	-		3	40049	-	SAI
26	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-041	50-PT-041	_50PT041	Fresh water outlet pressure	SAI	ANALOG	FLOATING	0	6	bar	NO	-	-		3	40051	-	SAI
27	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-047	50-PT-047	_50PT047	Softening filter inlet pressure	SAI	ANALOG	FLOATING	0	6	bar	NO	-	-		3	40053	-	SAI
28	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-50004A	50-SI-P50004A	_50SIP50004A	HP pump speed feedback	SAI	ANALOG	FLOATING	0	100	%	NO	-	-		3	40055	-	SAI
29	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-50004B	50-SI-P50004B	_50SIP50004B	HP pump speed feedback	SAI	ANALOG	FLOATING	0	100	%	NO	-	-		3	40057	-	SAI
30	ACTIVE	1724000448-PR-PID-00013 / 001	50-T-021	50-TT-021	_50TT021	Seawater temperature from H-50001	SAI	ANALOG	FLOATING	0	50	degC	NO	-	-		3	40059	-	SAI
31	ACTIVE	1724000448-PR-PID-00013 / 001	50-T-022	50-TT-022	_50TT022	Seawater temperature from H-50001	SAI	ANALOG	FLOATING	0	50	degC	NO	-	-		3	40061	-	SAI
32	ACTIVE	1724000448-PR-PID-00013 / 001	50-T-023	50-TT-023	_50TT023	Ambient air temperature inside container	SAI	ANALOG	FLOATING	0	50	degC	NO	-	-		3	40063	-	SAI
33	ACTIVE	1724000448-PR-PID-00013 / 004	50-T-024	50-TT-024	_50TT024	Fresh water outlet temperature	SAI	ANALOG	FLOATING	0	50	degC	NO	-	-		3	40065	-	SAI
34	ACTIVE	1724000448-PR-PID-00013 / 002	50-A-023	50-AT-023	_50AT023_H	Filtered seawater conductivity to P-50003A/B high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	uS/cm	YES	6300	2		3	40101	0	
35	ACTIVE	1724000448-PR-PID-00013 / 003	50-A-024	50-AT-024	_50AT024_H	Fresh water conductivity from A-50007A/B high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	uS/cm	YES	670	2		3	40101	1	
36	ACTIVE	1724000448-PR-PID-00013 / 003	50-A-024	50-AT-024	_50AT024_HH	Fresh water conductivity from A-50007A/B very high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	uS/cm	YES	750	1		3	40101	2	
37	ACTIVE	1724000448-PR-PID-00013 / 004	50-A-026	50-AT-026	_50AT026_H	Fresh water outlet total hardness high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	ppm CaCO3	YES	8	2		3	40101	3	
38	ACTIVE	1724000448-PR-PID-00013 / 004	50-A-026	50-AT-026	_50AT026_HH	Fresh water outlet total hardness very high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	ppm CaCO3	YES	9	1		3	40101	4	
39	ACTIVE	1724000448-PR-PID-00013 / 004	50-A-027	50-AT-027	_50AT027_LL	Fresh water outlet pH very low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	pH	YES	6,9	1		3	40101	5	
40	ACTIVE	1724000448-PR-PID-00013 / 004	50-A-027	50-AT-027	_50AT027_L	Fresh water outlet pH low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	pH	YES	7,1	2		3	40101	6	
41	ACTIVE	1724000448-PR-PID-00013 / 004	50-A-027	50-AT-027	_50AT027_H	Fresh water outlet pH high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	pH	YES	7,8	2		3	40101	7	
42	ACTIVE	1724000448-PR-PID-00013 / 004	50-A-027	50-AT-027	_50AT027_HH	Fresh water outlet pH very high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	pH	YES	8	1		3	40101	8	
43	ACTIVE	1724000448-PR-PID-00013 / 001	50-F-020	50-FT-020	_50FT020_L	Seawater flow to S-50001 low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	m3/h	YES	4	2		3	40101	9	
44	ACTIVE	1724000448-PR-PID-00013 / 001	50-F-020	50-FT-020	_50FT020_H	Seawater flow to S-50001 high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	m3/h	YES	6	2		3	40101	10	
45	ACTIVE	1724000448-PR-PID-00013 / 002	50-F-022	50-FT-022	_50FT022_L	Filtered seawater flow from P-50003A low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	m3/h	YES	1,5	2		3	40101	11	
46	ACTIVE	1724000448-PR-PID-00013 / 002	50-F-022	50-FT-022	_50FT022_H	Filtered seawater flow from P-50003A high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	m3/h	YES	2,5	2		3	40101	12	
47	ACTIVE	1724000448-PR-PID-00013 / 002	50-F-023	50-FT-023	_50FT023_L	Filtered seawater flow from P-50003B low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	m3/h	YES	1,5	2		3	40101	13	
48	ACTIVE	1724000448-PR-PID-00013 / 002	50-F-023	50-FT-023	_50FT023_H	Filtered seawater flow from P-50003B high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	m3/h	YES	2,5	2		3	40101	14	
49	ACTIVE	1724000448-PR-PID-00013 / 003	50-F-024	50-FT-024	_50FT024_L	Fresh water flow from A-50007A/B low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	m3/h	YES	0,5	2		3	40101	15	
50	ACTIVE	1724000448-PR-PID-00013 / 004	50-F-027	50-FT-026	_50FT026_L	Fresh water outlet flow low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	m3/h	YES	0,5	2		3	40102	0	
51	ACTIVE	1724000448-PR-PID-00013 / 001	50-L-020	50-LT-020	_50LT020_LL	T-50006 level very low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	%	YES	10	1		3	40102	1	
52	ACTIVE	1724000448-PR-PID-00013 / 001	50-L-020	50-LT-020	_50LT020_L	T-50006 level low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	%	YES	20	2		3	40102	2	
53	ACTIVE	1724000448-PR-PID-00013 / 001	50-L-020	50-LT-020	_50LT020_H	T-50006 level high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	%	YES	90	2		3	40102	3	
54	ACTIVE	1724000448-PR-PID-00013 / 004	50-L-021	50-LT-021	_50LT021_LL	T-50008 level very low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	%	YES	10	1		3	40102	4	
55	ACTIVE	1724000448-PR-PID-00013 / 004	50-L-021	50-LT-021	_50LT021_L	T-50008 level low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	%	YES	20	2		3	40102	5	
56	ACTIVE	1724000448-PR-PID-00013 / 004	50-L-021	50-LT-021	_50LT021_H	T-50008 level high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	%	YES	90	2		3	40102	6	
57	ACTIVE	1724000448-PR-PID-00013 / 005	50-L-022	50-LT-022	_50LT022_LL	T-50002 level very low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	%	YES	10	1		3	40102	7	
58	ACTIVE	1724000448-PR-PID-00013 / 005	50-L-022	50-LT-022	_50LT022_L	T-50002 level low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	%	YES	20	2		3	40102	8	
59	ACTIVE	1724000448-PR-PID-00013 / 005	50-L-023	50-LT-023	_50LT023_LL	T-50003 level very low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	%	YES	10	1		3	40102	9	

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60	ACTIVE	1724000448-PR-PID-00013 / 005	50-L-023	50-LT-023	_50LT023_LL	T-50003 level low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	%	YES	20	2	3	40102	10	
61	ACTIVE	1724000448-PR-PID-00013 / 006	50-L-024	50-LT-024	_50LT024_LL	T-50004 level very low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	%	YES	10	1	3	40102	11	
62	ACTIVE	1724000448-PR-PID-00013 / 006	50-L-024	50-LT-024	_50LT024_L	T-50004 level low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	%	YES	20	2	3	40102	12	
63	ACTIVE	1724000448-PR-PID-00013 / 001	50-P-023	50-PDT-023	_50PDT023_H	dP across S-50001 high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	bar	YES	1	2	3	40102	13	
64	ACTIVE	1724000448-PR-PID-00013 / 001	50-P-020	50-PT-020	_50PT020_L	Seawater inlet pressure low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	bar	YES	4	2	3	40102	14	
65	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-025	50-PT-025	_50PT025_L	Filtered seawater pressure from P-50003A low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	bar	YES	3	2	3	40102	15	
66	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-026	50-PT-026	_50PT026_L	Filtered seawater pressure to P-50004A low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	bar	YES	2,5	2	3	40103	0	
67	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-027	50-PT-027	_50PT027_L	Filtered seawater pressure from P-50003B low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	bar	YES	3	2	3	40103	1	
68	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-028	50-PT-028	_50PT028_L	Filtered seawater pressure to P-50004B low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	bar	YES	2,5	2	3	40103	2	
69	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-030	50-PT-030	_50PT030_L	Filtered seawater pressure from P-50004A low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	bar	YES	55	2	3	40103	3	
70	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-030	50-PT-030	_50PT030_H	Filtered seawater pressure from P-50004A high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	bar	YES	65	2	3	40103	4	
71	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-032	50-PT-032	_50PT032_L	Filtered seawater pressure from P-50004B low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	bar	YES	55	2	3	40103	5	
72	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-032	50-PT-032	_50PT032_H	Filtered seawater pressure from P-50004B high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	bar	YES	65	2	3	40103	6	
73	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-041	50-PT-041	_50PT041_L	Fresh water outlet pressure low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	bar	YES	4	2	3	40103	7	
74	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-041	50-PT-041	_50PT041_H	Fresh water outlet pressure high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	bar	YES	6	2	3	40103	8	
75	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-047	50-PT-047	_50PT047_L	Softening filter inlet pressure low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	bar	YES	4	2	3	40103	9	
76	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-047	50-PT-047	_50PT047_H	Softening filter inlet pressure high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	bar	YES	6	2	3	40103	10	
77	ACTIVE	1724000448-PR-PID-00013 / 001	50-T-022	50-TT-022	_50TT022_L	Seawater temperature from H-50001 low	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	degC	YES	10	2	3	40103	11	
78	ACTIVE	1724000448-PR-PID-00013 / 001	50-T-022	50-TT-022	_50TT022_H	Seawater temperature from H-50001 high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	degC	YES	35	2	3	40103	12	
79	ACTIVE	1724000448-PR-PID-00013 / 001	50-T-022	50-TT-022	_50TT022_HH	Seawater temperature from H-50001 very high	SDI	DIGITAL	BOOLEAN	ALARM	NORMAL	degC	YES	40	1	3	40103	13	
80	ACTIVE	1724000448-PR-PID-00013 / 001	50-X-020	50-XV-020	_50XV020_O	Seawater inlet valve open	SDI	DIGITAL	BOOLEAN	NOT OPEN	OPEN	-	NO	-	-	3	40111	0	
81	ACTIVE	1724000448-PR-PID-00013 / 001	50-X-020	50-XV-020	_50XV020_C	Seawater inlet valve closed	SDI	DIGITAL	BOOLEAN	NOT CLOSED	CLOSED	-	NO	-	-	3	40111	1	
82	ACTIVE	1724000448-PR-PID-00013 / 001	50-X-020	50-XV-020	_50XV020_F	Seawater inlet valve failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40111	2	
83	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-021	50-XV-021	_50XV021_O	P-50003A suction valve open	SDI	DIGITAL	BOOLEAN	NOT OPEN	OPEN	-	NO	-	-	3	40111	3	
84	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-021	50-XV-021	_50XV021_C	P-50003A suction valve closed	SDI	DIGITAL	BOOLEAN	NOT CLOSED	CLOSED	-	NO	-	-	3	40111	4	
85	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-021	50-XV-021	_50XV021_F	P-50003A suction valve failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40111	5	
86	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-022	50-XV-022	_50XV022_O	P-50003B suction valve open	SDI	DIGITAL	BOOLEAN	NOT OPEN	OPEN	-	NO	-	-	3	40111	6	SDI
87	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-022	50-XV-022	_50XV022_C	P-50003B suction valve closed	SDI	DIGITAL	BOOLEAN	NOT CLOSED	CLOSED	-	NO	-	-	3	40111	7	SDI
88	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-022	50-XV-022	_50XV022_F	P-50003B suction valve failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40111	8	SDI
89	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-023	50-XV-023	_50XV023_O	P-50003A flushing valve open	SDI	DIGITAL	BOOLEAN	NOT OPEN	OPEN	-	NO	-	-	3	40111	9	
90	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-023	50-XV-023	_50XV023_C	P-50003A flushing valve closed	SDI	DIGITAL	BOOLEAN	NOT CLOSED	CLOSED	-	NO	-	-	3	40111	10	
91	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-023	50-XV-023	_50XV023_F	P-50003A flushing valve failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40111	11	
92	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-024	50-XV-024	_50XV024_O	P-50003B flushing valve open	SDI	DIGITAL	BOOLEAN	NOT OPEN	OPEN	-	NO	-	-	3	40111	12	SDI
93	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-024	50-XV-024	_50XV024_C	P-50003B flushing valve closed	SDI	DIGITAL	BOOLEAN	NOT CLOSED	CLOSED	-	NO	-	-	3	40111	13	SDI
94	ACTIVE	1724000448-PR-PID-00013 / 002	50-X-024	50-XV-024	_50XV024_F	P-50003B flushing valve failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40111	14	SDI
95	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-025	50-XV-025	_50XV025_O	Fresh water from A-50007A/B valve open	SDI	DIGITAL	BOOLEAN	NOT OPEN	OPEN	-	NO	-	-	3	40111	15	
96	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-025	50-XV-025	_50XV025_C	Fresh water from A-50007A/B valve closed	SDI	DIGITAL	BOOLEAN	NOT CLOSED	CLOSED	-	NO	-	-	3	40112	0	
97	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-025	50-XV-025	_50XV025_F	Fresh water from A-50007A/B valve failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40112	1	
98	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-026	50-XV-026	_50XV026_O	Fresh water drain from A-50007A/B valve open	SDI	DIGITAL	BOOLEAN	NOT OPEN	OPEN	-	NO	-	-	3	40112	2	
99	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-026	50-XV-026	_50XV026_C	Fresh water drain from A-50007A/B valve closed	SDI	DIGITAL	BOOLEAN	NOT CLOSED	CLOSED	-	NO	-	-	3	40112	3	
100	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-026	50-XV-026	_50XV026_F	Fresh water drain from A-50007A/B valve failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40112	4	
101	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-027	50-XV-027	_50XV027_O	Brine from A-50007A valve open	SDI	DIGITAL	BOOLEAN	NOT OPEN	OPEN	-	NO	-	-	3	40112	5	
102	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-027	50-XV-027	_50XV027_C	Brine from A-50007A valve closed	SDI	DIGITAL	BOOLEAN	NOT CLOSED	CLOSED	-	NO	-	-	3	40112	6	
103	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-027	50-XV-027	_50XV027_F	Brine from A-50007A valve failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40112	7	
104	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-028	50-XV-028	_50XV028_O	Fresh water from A-50007B valve open	SDI	DIGITAL	BOOLEAN	NOT OPEN	OPEN	-	NO	-	-	3	40112	8	SDI
105	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-028	50-XV-028	_50XV028_C	Fresh water from A-50007B valve closed	SDI	DIGITAL	BOOLEAN	NOT CLOSED	CLOSED	-	NO	-	-	3	40112	9	SDI
106	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-028	50-XV-028	_50XV028_F	Fresh water from A-50007B valve failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40112	10	SDI
107	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-029	50-XV-029	_50XV029_O	Fresh water drain from A-50007B valve open	SDI	DIGITAL	BOOLEAN	NOT OPEN	OPEN	-	NO	-	-	3	40112	11	SDI
108	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-029	50-XV-029	_50XV029_C	Fresh water drain from A-50007B valve closed	SDI	DIGITAL	BOOLEAN	NOT CLOSED	CLOSED	-	NO	-	-	3	40112	12	SDI
109	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-029	50-XV-029	_50XV029_F	Fresh water drain from A-50007B valve failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40112	13	SDI
110	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-030	50-XV-030	_50XV030_O	Brine from A-50007B valve open	SDI	DIGITAL	BOOLEAN	NOT OPEN	OPEN	-	NO	-	-	3	40112	14	SDI
111	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-030	50-XV-030	_50XV030_C	Brine from A-50007B valve closed	SDI	DIGITAL	BOOLEAN	NOT CLOSED	CLOSED	-	NO	-	-	3	40112	15	SDI
112	ACTIVE	1724000448-PR-PID-00013 / 003	50-X-030	50-XV-030	_50XV030_F	Brine from A-50007B valve failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40113	0	SDI
113	ACTIVE	1724000448-PR-PID-00013 / 004	50-X-031	50-XV-031	_50XV031_O	Fresh water outlet valve open	SDI	DIGITAL	BOOLEAN	NOT OPEN	OPEN	-	NO	-	-	3	40113	1	SDI
114	ACTIVE	1724000448-PR-PID-00013 / 004	50-X-031	50-XV-031	_50XV031_C	Fresh water outlet valve closed	SDI	DIGITAL	BOOLEAN	NOT CLOSED	CLOSED	-	NO	-	-	3	40113	2	SDI
115	ACTIVE	1724000448-PR-PID-00013 / 004	50-X-031	50-XV-031	_50XV031_F	Fresh water outlet valve failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40113	3	SDI
116	ACTIVE	1724000448-PR-PID-00013 / 004	50-X-032	50-XV-032	_50XV032_O	Fresh water off-spec valve open	SDI	DIGITAL	BOOLEAN	NOT OPEN	OPEN	-	NO	-	-	3	40113	4	SDI
117	ACTIVE	1724000448-PR-PID-00013 / 004	50-X-032	50-XV-032	_50XV032_C	Fresh water off-spec valve closed	SDI	DIGITAL	BOOLEAN	NOT CLOSED	CLOSED	-	NO	-	-	3	40113	5	SDI
118	ACTIVE	1724000448-PR-PID-00013 / 004	50-X-032	50-XV-032	_50XV032_F	Fresh water off-spec valve failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40113	6	SDI

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119	ACTIVE	1724000448-PR-PID-00013 / 001	50-P-50002A	50-P-50002A	_50P50002A_R	Backwash pump running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40121	0							SDI
120	ACTIVE	1724000448-PR-PID-00013 / 001	50-P-50002A	50-P-50002A	_50P50002A_F	Backwash pump failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40121	1							SDI
121	ACTIVE	1724000448-PR-PID-00013 / 001	50-P-50002B	50-P-50002B	_50P50002B_R	Backwash pump running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40121	2							SDI
122	ACTIVE	1724000448-PR-PID-00013 / 001	50-P-50002B	50-P-50002B	_50P50002B_F	Backwash pump failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40121	3							SDI
123	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-50003A	50-P-50003A	_50P50003A_R	SW booster pump running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40121	4							
124	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-50003A	50-P-50003A	_50P50003A_F	SW booster pump failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40121	5							
125	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-50003B	50-P-50003B	_50P50003B_R	SW booster pump running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40121	6							SDI
126	ACTIVE	1724000448-PR-PID-00013 / 002	50-P-50003B	50-P-50003B	_50P50003B_F	SW booster pump failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40121	7							SDI
127	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-50004A	50-P-50004A	_50P50004A_R	HP pump running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40121	8							SDI
128	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-50004A	50-P-50004A	_50P50004A_F	HP pump failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40121	9							SDI
129	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-50004B	50-P-50004B	_50P50004B_R	HP pump running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40121	10							SDI
130	ACTIVE	1724000448-PR-PID-00013 / 003	50-P-50004B	50-P-50004B	_50P50004B_F	HP pump failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40121	11							SDI
131	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50005A	50-P-50005A	_50P50005A_R	Caustic soda dosing pump running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40121	12							SDI
132	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50005A	50-P-50005A	_50P50005A_F	Caustic soda dosing pump failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40121	13							SDI
133	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50005B	50-P-50005B	_50P50005B_R	Caustic soda dosing pump running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40121	14							SDI
134	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50005B	50-P-50005B	_50P50005B_F	Caustic soda dosing pump failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40121	15							SDI
135	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50006A	50-P-50006A	_50P50006A_R	Antiscalant dosing pump running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40122	0							SDI
136	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50006A	50-P-50006A	_50P50006A_F	Antiscalant dosing pump failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40122	1							SDI
137	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50006B	50-P-50006B	_50P50006B_R	Antiscalant dosing pump running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40122	2							
138	ACTIVE	1724000448-PR-PID-00013 / 005	50-P-50006B	50-P-50006B	_50P50006B_F	Antiscalant dosing pump failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40122	3							
139	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50007A	50-P-50007A	_50P50007A_R	Non-oxidant biocide dosing pump - container inlet running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40122	4							SDI
140	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50007A	50-P-50007A	_50P50007A_F	Non-oxidant biocide dosing pump - container inlet failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40122	5							SDI
141	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50007B	50-P-50007B	_50P50007B_R	Non-oxidant biocide dosing pump - container inlet running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40122	6							
142	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50007B	50-P-50007B	_50P50007B_F	Non-oxidant biocide dosing pump - container inlet failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40122	7							
143	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50008A	50-P-50008A	_50P50008A_R	Non-oxidant biocide dosing pump - sea water intake running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40122	8							SDI
144	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50008A	50-P-50008A	_50P50008A_F	Non-oxidant biocide dosing pump - sea water intake failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40122	9							SDI
145	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50008B	50-P-50008B	_50P50008B_R	Non-oxidant biocide dosing pump - sea water intake running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40122	10							
146	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50008B	50-P-50008B	_50P50008B_F	Non-oxidant biocide dosing pump - sea water intake failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40122	11							
147	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-50009A	50-P-50009A	_50P50009A_R	Fresh water pump running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40122	12							SDI
148	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-50009A	50-P-50009A	_50P50009A_F	Fresh water pump failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40122	13							SDI
149	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-50009B	50-P-50009B	_50P50009B_R	Fresh water pump running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40122	14							
150	ACTIVE	1724000448-PR-PID-00013 / 004	50-P-50009B	50-P-50009B	_50P50009B_F	Fresh water pump failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40122	15							
151	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50010A	50-P-50010A	_50P50010A_R	Non-oxidant biocide dosing pump - waste water tank running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40123	0							SDI
152	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50010A	50-P-50010A	_50P50010A_F	Non-oxidant biocide dosing pump - waste water tank failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40123	1							SDI
153	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50010B	50-P-50010B	_50P50010B_R	Non-oxidant biocide dosing pump - waste water tank running	SDI	DIGITAL	BOOLEAN	STOPPED	RUNNING	-	NO	-	-	3	40123	2							SDI
154	ACTIVE	1724000448-PR-PID-00013 / 006	50-P-50010B	50-P-50010B	_50P50010B_F	Non-oxidant biocide dosing pump - waste water tank failure	SDI	DIGITAL	BOOLEAN	FAILURE	NORMAL	-	YES	-	3	3	40123	3							SDI
155	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003A	50-H-50003A	_50H50003A_A	Container electrical heater start/stop command	SDI	DIGITAL	BOOLEAN	NOT ACTIVE	ACTIVE	-	NO	-	-	3	40131	0							
156	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003B	50-H-50003B	_50H50003B_A	Container electrical heater start/stop command	SDI	DIGITAL	BOOLEAN	NOT ACTIVE	ACTIVE	-	NO	-	-	3	40131	1							
157	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003A	50-H-50003A	_50HFA50001A_A	Container air fan start/stop command	SDI	DIGITAL	BOOLEAN	NOT ACTIVE	ACTIVE	-	NO	-	-	3	40131	2							
158	ACTIVE	1724000448-PR-PID-00013 / 001	50-H-50003B	50-H-50003B	_50HFA50001B_A	Container air fan start/stop command	SDI	DIGITAL	BOOLEAN	NOT ACTIVE	ACTIVE	-	NO	-	-	3	40131	3							
159	ACTIVE	1724000448-PR-PID-00013 / 001	50-A-50003	50-A-50003	_50A50003_A	Seawater coarse filter regeneration command	SDI	DIGITAL	BOOLEAN	NOT ACTIVE	ACTIVE	-	NO	-	-	3	40131	4							
160	ACTIVE	1724000448-PR-PID-00013 / 001	50-S-50001	50-S-50001	_50S50001_A	Sand filter regeneration command	SDI	DIGITAL	BOOLEAN	NOT ACTIVE	ACTIVE	-	NO	-	-	3	40131	5							
161	ACTIVE	1724000448-PR-PID-00013 / 004	50-S-50004	50-S-50004	_50S50004_A	Softening Filter regeneration command	SDI	DIGITAL	BOOLEAN	NOT ACTIVE	ACTIVE	-	NO	-	-	3	40131	6							
162	ACTIVE	1724000448-PR-PID-00013 / 004	50-S-50010	50-S-50010	_50S50010_A	UV sterilizer start/stop command	SDI	DIGITAL	BOOLEAN	NOT ACTIVE	ACTIVE	-	NO	-	-	3	40131	7							SDI

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Input / Output Count

Type of signal	DI	DO	AI	AO
Control sytem I/O card modularity	16	16	8	4
Channel used	**95**	**47**	**31**	**5**
Spare required (%)	20	20	20	20
Quantity channel redundant used	0	0	0	0
Total channels used (including spares)	114	57	38	6
Total channels installed	**128**	**64**	**40**	**8**
Number of I/O modules installed	8	4	5	2
Actual Spare	*26%*	*27%*	*23%*	*38%*

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