Base Load Power Hub (BLPH)

WATER TREATMENT PACKAGE A-50000
INSTRUMENT LIST WITH SET POINTS/CONTROL/ALARM/SHUTDOWN

Document Number: 1724000448-IN-LIS-00021

ROSETTI MARINO

1	NO COMMENTS - APPROVED - WORK MAY PROCEED
2	MINOR COMMENTS - REVISE AND RESUBMIT - WORK MAY PROCEED
3	MAJOR COMMENTS – REJECTED – DO NOT PROCEED
4	APPROVAL NOT REQUIRED

NOTE: Approval doesn't relieve the supplier from mandatory compliance with contractual documents and specifications. Comments made do not imply acceptance of any cost or delivery impact.

Sign	Date
	26-11-2024

Document Class : 3

Rev.	Date	Description	Prepared	Reviewed	Approved
04	25/11/2024	ISSUE FOR INFORMATION (IFI)	GB	AZ	RM
03	04/11/2024	ISSUE FOR INFORMATION (IFI)	GB	AZ	RM
02	17/09/2024	ISSUE FOR INFORMATION (IFI)	GB	AZ	RM
01	03/07/2024	ISSUE FOR INFORMATION (IFI)	GB	AZ	RM
00	03/06/2024	ISSUE FOR INFORMATION (IFI)	GB	AZ	RM

PSC DOC. REF. PK2885-I-006

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Revision / Change Log

Rev.	Description
00	ISSUE FOR INFORMATION (IFI)
01	ISSUE FOR INFORMATION (IFI)
02	ISSUE FOR INFORMATION (IFI)
03	ISSUE FOR INFORMATION (IFI)
04	ISSUE FOR INFORMATION (IFI)

HOLDS LIST

No.	Description
1.	
2.	
3.	
4.	

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Legend

COLUMN	MEANING AND VALUES
LOC	Location Type Description, described as follow:

Component located in:
Field = Plant area
MCC = Motor Control Center (panel tag: CP-500E1)
F&G = Fire & Gas (panel tag: 50-LP-002)
UCP = Unit Control Panel (panel tag: 50-LP-001)
FGS = Client Fire Gas System (panel tag B400-FGS-002)
SIS = Client Safety Instrumented System

Abbreviation

NAME	DESCRIPTION
TBD:	To Be Defined
TBC:	To Be Confirmed
VTA:	Vendor To Advise

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UNIT	VARIABLE	LOOP	TAG NUMBER	SERVICE	INSTRUMENT TYPE DESCRIPTION	LOC	INSTRUMENT RANGE (MIN/MAX)	CALIBRATION RANGE (MIN/MAX)	INSTRUMENT ALARM				SET	ENGINEERING UNITS	ELECTRICAL EXECUTION	MANUFACTURER	MODEL	P&ID REFERENCE	REV	NOTE
									LL	L	H	HH								
50	A	020	50-AT-020A	H2 GAS DETECTION IN CONTAINER	H2 GAS DETECTOR	F&G	\	\	\	\	\	\	\	\	SAFE AREA	SIA	SENSATION – SMART 3G	1724000448-PR-PID-00013 / 003	02	PRE-ALARM 5% LFL ALARM 10% LFL
50	A	020	50-AT-020B	H2 GAS DETECTION IN CONTAINER	H2 GAS DETECTOR	F&G	\	\	\	\	\	\	\	\	SAFE AREA	SIA	SENSATION – SMART 3G	1724000448-PR-PID-00013 / 003	02	PRE-ALARM 5% LFL ALARM 10% LFL
50	A	020	50-AT-020C	H2 GAS DETECTION IN CONTAINER	H2 GAS DETECTOR	F&G	\	\	\	\	\	\	\	\	SAFE AREA	SIA	SENSATION – SMART 3G	1724000448-PR-PID-00013 / 003	02	PRE-ALARM 5% LFL ALARM 10% LFL
50	A	021	50-AT-021A	FIRE DETECTION IN CONTAINER	FLAME / FIRE DETECTOR	F&G	\	\	\	\	\	\	\	\	SAFE AREA	SIA	HOCHIKI - SOC-E-IS	1724000448-PR-PID-00013 / 003	02	
50	A	021	50-AT-021B	FIRE DETECTION IN CONTAINER	FLAME / FIRE DETECTOR	F&G	\	\	\	\	\	\	\	\	SAFE AREA	SIA	HOCHIKI - SOC-E-IS	1724000448-PR-PID-00013 / 003	02	
50	A	021	50-AT-021C	FIRE DETECTION IN CONTAINER	FLAME / FIRE DETECTOR	F&G	\	\	\	\	\	\	\	\	SAFE AREA	SIA	HOCHIKI - SOC-E-IS	1724000448-PR-PID-00013 / 003	02	
50	A	023	50-AT-023	FILTERED SEAWATER CONDUCTIVITY TO P-50003A/B	ANALYZER TRANSMITTER - CONDUCTIVITY	Field	100 … 2000000	0 … 80000	\	\	63000	\	\	uS/cm	SAFE AREA	BURKERT	8228	1724000448-PR-PID-00013 / 003	02	
50	A	024	50-AT-024	FRESH WATER CONDUCTIVITY FROM A-50007A	ANALYZER TRANSMITTER - CONDUCTIVITY	Field	0.05 … 10000	0 … 1000	\	\	670	750	\	uS/cm	SAFE AREA	BURKERT	8222	1724000448-PR-PID-00013 / 004	02	
50	A	026	50-AT-026	FRESH WATER OUTLET TOTAL HARDNESS	ANALYZER TRANSMITTER - TOTAL HARDNESS	Field	1.6 … 16	1.6 … 16	\	\	8	9	\	ppm CaCO3	SAFE AREA	BURKERT	DUROMAT IQ	1724000448-PR-PID-00013 / 005	02	
50	A	027	50-AT-027	FRESH WATER OUTLET PH	ANALYZER TRANSMITTER - PH	Field	0 … 14	0 … 14	6.9	7.1	7.8	8	7.5	pH	SAFE AREA	BURKERT	8202+8203	1724000448-PR-PID-00013 / 005	02	
50	F	020	50-FT-020	SEAWATER FLOW FROM H-50001	MAGNETIC FLOW TRASMITTER	Field	0 … 50	0 … 8	\	2 / 4(*)	3 /6(*)	\	\	m³/h	SAFE AREA	BURKERT	8045	1724000448-PR-PID-00013 / 002	02	
50	F	022	50-FT-022	FILTERED SEAWATER FLOW FROM P-50003A	MAGNETIC FLOW TRASMITTER	Field	0 … 20	0 … 4	\	1.5	2.5	\	\	m³/h	SAFE AREA	BURKERT	8045	1724000448-PR-PID-00013 / 003	02	
50	F	023	50-FT-023	FILTERED SEAWATER FLOW FROM P-50003B	MAGNETIC FLOW TRASMITTER	Field	0 … 20	0 … 4	\	1.5	2.5	\	\	m³/h	SAFE AREA	BURKERT	8045	1724000448-PR-PID-00013 / 003	02	
50	F	024	50-FT-024	FRESH WATER FLOW FROM A-50007A	MAGNETIC FLOW TRASMITTER	Field	0 … 6	0 … 2	\	0.5	\	\	\	m³/h	SAFE AREA	BURKERT	8045	1724000448-PR-PID-00013 / 004	02	
50	F	026	50-FT-026	FRESH WATER FLOW FROM S-50010	MAGNETIC FLOW TRASMITTER	Field	0 … 6	0 … 2	\	0.5	1	\	\	m³/h	SAFE AREA	BURKERT	8045	1724000448-PR-PID-00013 / 005	02	
50	H	020	50-HS-020	CONTAINER EMERGENCY PUSH BUTTON	MANUAL ALARM FOR EMERGENCY	Field	\	\	\	\	\	\	\	\	SAFE AREA	STAHL	130679	1724000448-PR-PID-00013 / 003	02	
50	H	A50003	50-HS-A50003	SEA WATER COARSE FILTER A-50003	START/STOP SELECTOR	UCP	\	\	\	\	\	\	\	\	\	\	\	1724000448-PR-PID-00013 / 002	02	
50	H	HFA50001	50-HS-HFA50001	CONTAINER AIR FAN HFA-50001	START/STOP SELECTOR	UCP	\	\	\	\	\	\	\	\	\	\	\	1724000448-PR-PID-00013 / 002	02	
50	H	S50001	50-HS-S50001	SAND FILTER S-50001	START/STOP SELECTOR	UCP	\	\	\	\	\	\	\	\	\	\	\	1724000448-PR-PID-00013 / 002	02	
50	H	S50004	50-HS-S50004	SOFTENING FILTER S-50004	START/STOP SELECTOR	UCP	\	\	\	\	\	\	\	\	\	\	\	1724000448-PR-PID-00013 / 002	02	
50	H	S50010	50-HS-S50010	UV STERILIZER S-50010	START/STOP SELECTOR	UCP	\	\	\	\	\	\	\	\	\	\	\	1724000448-PR-PID-00013 / 002	02	
50	L	020	50-LT-020	T-50006 LEVEL	LEVEL TRANSMITTER (GENERIC)	Field	0 … 100	0 … 100	10	20	90	\	\	%	SAFE AREA	BURKERT	8177	1724000448-PR-PID-00013 / 002	02	
50	L	021	50-LT-021	T-50008 LEVEL	LEVEL TRANSMITTER (GENERIC)	Field	0 … 100	0 … 100	10	20	90	\	\	%	SAFE AREA	BURKERT	8177	1724000448-PR-PID-00013 / 005	02	
50	L	022	50-LT-022	T-50002 LEVEL	LEVEL TRANSMITTER (GENERIC)	Field	0 … 100	0 … 100	10	20	\	\	\	%	SAFE AREA	BURKERT	8177	1724000448-PR-PID-00013 / 006	02	
50	L	023	50-LT-023	T-50003 LEVEL	LEVEL TRANSMITTER (GENERIC)	Field	0 … 100	0 … 100	10	20	\	\	\	%	SAFE AREA	BURKERT	8177	1724000448-PR-PID-00013 / 006	02	
50	L	024	50-LT-024	T-50004 LEVEL	LEVEL TRANSMITTER (GENERIC)	Field	0 … 100	0 … 100	10	20	\	\	\	%	SAFE AREA	BURKERT	8177	1724000448-PR-PID-00013 / 007	02	
50	P	024	50-PDI-024	DIFF PRESSURE ACROSS S-50002A / S-50003A	DIFFERENTIAL PRESSURE INDICATOR (SYSTEM)	UCP	\	0 … 2.5	\	\	2	\	\	barg	\	\	\	1724000448-PR-PID-00013 / 003	02	
50	P	029	50-PDI-029	DIFF PRESSURE ACROSS S-50002B / S-50003B	DIFFERENTIAL PRESSURE INDICATOR (SYSTEM)	UCP	\	0 … 2.5	\	\	2	\	\	barg	\	\	\	1724000448-PR-PID-00013 / 003	02	
50	P	049	50-PDI-049	DIFF PRESSURE ACROSS S-50004 / S-50010	DIFFERENTIAL PRESSURE INDICATOR (SYSTEM)	UCP	\	0 … 1	\	\	0.5	\	\	barg	\	\	\	1724000448-PR-PID-00013 / 005	02	
50	P	050	50-PDI-052	DIFF PRESSURE ACROSS S-50001	DIFFERENTIAL PRESSURE INDICATOR (SYSTEM)	UCP	\	0 … 1.5	\	\	1	\	\	barg	\	\	\	1724000448-PR-PID-00013 / 002	02	
50	P	022	50-PI-022	SEAWATER PRESSURE TO S-50001	PRESSURE GAUGE	Field	0 … 6	\	\	\	\	\	\	barg	SAFE AREA	NUOVA FIMA	MGS20	1724000448-PR-PID-00013 / 002	02	
50	P	031	50-PI-031	BRINE PRESSURE FROM A-50007A	PRESSURE GAUGE	Field	0 … 100	\	\	\	\	\	\	barg	SAFE AREA	NUOVA FIMA	MGS40	1724000448-PR-PID-00013 / 004	02	
50	P	033	50-PI-033	BRINE PRESSURE FROM A-50007B	PRESSURE GAUGE	Field	0 … 100	\	\	\	\	\	\	barg	SAFE AREA	NUOVA FIMA	MGS40	1724000448-PR-PID-00013 / 004	02	
50	P	042	50-PI-042	SULPHURIC ACID PRESSURE FROM P-50005A/B	PRESSURE GAUGE	Field	0 … 6	\	\	\	\	\	\	barg	SAFE AREA	NUOVA FIMA	MGS20	1724000448-PR-PID-00013 / 006	02	
50	P	043	50-PI-043	ANTISCALANT PRESSURE FROM P-50006A/B	PRESSURE GAUGE	Field	0 … 6	\	\	\	\	\	\	barg	SAFE AREA	NUOVA FIMA	MGS20	1724000448-PR-PID-00013 / 006	02	
50	P	044	50-PI-044	BIOCIDE PRESSURE FROM P-50007A/B	PRESSURE GAUGE	Field	0 … 6	\	\	\	\	\	\	barg	SAFE AREA	NUOVA FIMA	MGS20	1724000448-PR-PID-00013 / 007	02	
50	P	045	50-PI-045	BIOCIDE PRESSURE FROM P-50008A/B	PRESSURE GAUGE	Field	0 … 6	\	\	\	\	\	\	barg	SAFE AREA	NUOVA FIMA	MGS20	1724000448-PR-PID-00013 / 007	02	

UNIT	VARIABLE	LOOP	TAG NUMBER	SERVICE	INSTRUMENT TYPE DESCRIPTION	LOC	INSTRUMENT RANGE (MIN/MAX)	CALIBRATION RANGE (MIN/MAX)	INSTRUMENT ALARM				SET	ENGINEERING UNITS	ELECTRICAL EXECUTION	MANUFACTURER	MODEL	P&ID REFERENCE	REV	NOTE
									LL	L	H	HH								
50	P	046	50-PI-046	BIOCIDE PRESSURE FROM P-50010A/B	PRESSURE GAUGE	Field	0 ... 6	\	\	\	\	\	\	barg	SAFE AREA	NUOVA FIMA	MGS20	1724000448-PR-PID-00013 / 007	02	
50	P	048	50-PI-048	SEAWATER PRESSURE OUTLET A-50003	PRESSURE GAUGE	Field	0 ... 6	\	\	\	\	\	\	barg	SAFE AREA	NUOVA FIMA	MGS20	1724000448-PR-PID-00013 / 002	02	
50	P	034	50-PSV-034	P-50004A SUCTION SIDE PROTECTION	PRESSURE RELIEF VALVE	Field	\	4	\	\	\	\	\	barg	SAFE AREA	COI TECHNOLOGY	GLVC-14BL57-128	1724000448-PR-PID-00013 / 004	02	
50	P	035	50-PSV-035	A-50007A INLET SIDE PROTECTION	PRESSURE RELIEF VALVE	Field	\	65	\	\	\	\	\	barg	SAFE AREA	COI TECHNOLOGY	GLVC-10AL0C-134	1724000448-PR-PID-00013 / 004	02	
50	P	036	50-PSV-036	A-50007A OUTLET SIDE PROTECTION	PRESSURE RELIEF VALVE	Field	\	6	\	\	\	\	\	barg	SAFE AREA	COI TECHNOLOGY	GLVC-10AL2E-128	1724000448-PR-PID-00013 / 004	02	
50	P	037	50-PSV-037	P-50004B SUCTION SIDE PROTECTION	PRESSURE RELIEF VALVE	Field	\	4	\	\	\	\	\	barg	SAFE AREA	COI TECHNOLOGY	GLVC-14BL57-128	1724000448-PR-PID-00013 / 004	02	
50	P	038	50-PSV-038	A-50007B INLET SIDE PROTECTION	PRESSURE RELIEF VALVE	Field	\	65	\	\	\	\	\	barg	SAFE AREA	COI TECHNOLOGY	GLVC-10AL0C-134	1724000448-PR-PID-00013 / 004	02	
50	P	039	50-PSV-039	A-50007B OUTLET SIDE PROTECTION	PRESSURE RELIEF VALVE	Field	\	6	\	\	\	\	\	barg	SAFE AREA	COI TECHNOLOGY	GLVC-10AL2E-128	1724000448-PR-PID-00013 / 004	02	
50	P	053	50-PSV-053	A-50009A/B OUTLET SIDE PROTECTION	PRESSURE RELIEF VALVE	Field	\	6	\	\	\	\	\	barg	SAFE AREA	COI TECHNOLOGY	GLVC-10AL2E-128	1724000448-PR-PID-00013 / 006	02	
50	P	020	50-PT-020	SEAWATER INLET PRESSURE	PRESSURE TRANSMITTER	Field	0 ... 17	0 ... 6	\	4	\	\	\	barg	SAFE AREA	GEORG FISCHER	2450+9900	1724000448-PR-PID-00013 / 002	02	
50	P	025	50-PT-025	FILTERED SEAWATER PRESSURE FROM P-50003A	PRESSURE TRANSMITTER	Field	0 ... 17	0 ... 6	\	3	\	\	\	barg	SAFE AREA	GEORG FISCHER	2450+9900	1724000448-PR-PID-00013 / 003	02	
50	P	026	50-PT-026	FILTERED SEAWATER PRESSURE TO P-50004A	PRESSURE TRANSMITTER	Field	0 ... 17	0 ... 6	\	2.5	\	\	\	barg	SAFE AREA	GEORG FISCHER	2450+9900	1724000448-PR-PID-00013 / 003	02	
50	P	027	50-PT-027	FILTERED SEAWATER PRESSURE FROM P-50003B	PRESSURE TRANSMITTER	Field	0 ... 17	0 ... 6	\	3	\	\	\	barg	SAFE AREA	GEORG FISCHER	2450+9900	1724000448-PR-PID-00013 / 003	02	
50	P	028	50-PT-028	FILTERED SEAWATER PRESSURE TO P-50004B	PRESSURE TRANSMITTER	Field	0 ... 17	0 ... 6	\	2.5	\	\	\	barg	SAFE AREA	GEORG FISCHER	2450+9900	1724000448-PR-PID-00013 / 003	02	
50	P	030	50-PT-030	FILTERED SEAWATER PRESSURE FROM P-50004A	PRESSURE TRANSMITTER	Field	0 ... 100	0 ... 70	\	55	65	\	\	barg	SAFE AREA	GEORG FISCHER	2450+9900	1724000448-PR-PID-00013 / 004	02	
50	P	032	50-PT-032	FILTERED SEAWATER PRESSURE FROM P-50004B	PRESSURE TRANSMITTER	Field	0 ... 100	0 ... 70	\	55	65	\	\	barg	SAFE AREA	GEORG FISCHER	2450+9900	1724000448-PR-PID-00013 / 004	02	
50	P	041	50-PT-041	FRESH WATER OUTLET PRESSURE	PRESSURE TRANSMITTER	Field	0 ... 17	0 ... 8	\	4	6	\	\	barg	SAFE AREA	GEORG FISCHER	2450+9900	1724000448-PR-PID-00013 / 005	02	
50	P	047	50-PT-047	FRESH WATER PRESSURE FROM P-50009A/B	PRESSURE TRANSMITTER	Field	0 ... 17	0 ... 8	\	4	6	\	\	barg	SAFE AREA	GEORG FISCHER	2450+9900	1724000448-PR-PID-00013 / 005	02	
50	P	050	50-PT-050	PRESSURE INLET S-50001	PRESSURE TRANSMITTER	Field	0 ... 17	0 ... 6	\	\	\	\	\	barg	SAFE AREA	GEORG FISCHER	2450+9900	1724000448-PR-PID-00013 / 002	02	
50	P	051	50-PT-051	PRESSURE OUTLET S-50001	PRESSURE TRANSMITTER	Field	0 ... 17	0 ... 6	\	\	\	\	\	barg	SAFE AREA	GEORG FISCHER	2450+9900	1724000448-PR-PID-00013 / 002	02	
50	T	020	50-TE-020	H-50001 TEMPERATURE	THERMOCOUPLE (PT100)	Field	-80 ... 500	\	\	\	\	\	\	°C	SAFE AREA	LA TERMOTECNICA	HR AB21030005	1724000448-PR-PID-00013 / 002	02	
50	T	020	50-TSHH-020	H-50001 TEMPERATURE	RELAY UNIT	MCC	\	\	\	\	110	\	110	°C	SAFE AREA	EUROTHERM	32ENG	1724000448-PR-PID-00013 / 002	02	
50	T	021	50-TT-021	SEAWATER TEMPERATURE FROM H-50001	TEMPERATURE TRANSMITTER	Field	-10 ... 100	0 ... 50	\	\	\	\	\	°C	SAFE AREA	GEORG FISCHER	2350+9900	1724000448-PR-PID-00013 / 002	02	
50	T	021	50-TIC-021	SEAWATER TEMPERATURE FROM H-50001	INDICATION AND CONTROL (SYSTEM)	UCP	\	\	\	\	\	\	\	\	\	\	\	1724000448-PR-PID-00013 / 002	02	
50	T	021	50-TZ-021	SEAWATER TEMPERATURE FROM H-50001	THYRISTOR	MCC	\	\	\	\	\	\	\	\	SAFE AREA	MASTERWATT	73U03000D000060	1724000448-PR-PID-00013 / 002	02	
50	T	022	50-TT-022	SEAWATER TEMPERATURE FROM H-50001	TEMPERATURE TRANSMITTER	Field	-10 ... 100	0 ... 50	\	\	22	25 \ 40	\	°C	SAFE AREA	GEORG FISCHER	2350+9900	1724000448-PR-PID-00013 / 002	03	25° (HH1) - INTERLOCK 020 40° (HH2) - INTERLOCK 001
50	T	023	50-TT-023	AMBIENT AIR TEMPERATURE INSIDE CONTAINER	TEMPERATURE TRANSMITTER	Field	-50 ,,, 150	0 ... 50	\	\	\	\	\	°C	SAFE AREA	E+H	TST434	1724000448-PR-PID-00013 / 002	02	
50	T	023	50-TIC-023	AMBIENT AIR TEMPERATURE INSIDE CONTAINER	INDICATION AND CONTROL (SYSTEM)	UCP	\	\	\	\	\	\	\	\	\	\	\	1724000448-PR-PID-00013 / 002	02	
50	T	024	50-TT-024	FRESH WATER OUTLET TEMPERATURE	TEMPERATURE TRANSMITTER	Field	-10 ... 100	0 ... 50	\	\	\	\	\	°C	SAFE AREA	GEORG FISCHER	2350+9900	1724000448-PR-PID-00013 / 005	02	
50	T	024	50-TI-024	FRESH WATER OUTLET TEMPERATURE	INDICATION (SYSTEM)	UCP	\	\	\	\	\	\	\	\	\	\	\	1724000448-PR-PID-00013 / 005	02	
50	X	020	50-XA-020	CONTAINER ALARM	MANUAL ALARM FOR EMERGENCY	UCP	\	\	\	\	\	\	\	\	\	\	\	1724000448-PR-PID-00013 / 003	02	
50	X	A50003	50-XA-A50003	SEA WATER COARSE FILTER A-50003	FAULT ALARM	UCP	\	\	\	\	\	\	\	\	\	\	\	1724000448-PR-PID-00013 / 002	02	
50	X	S50001	50-XA-S50001	SAND FILTER S-50001	FAULT ALARM	UCP	\	\	\	\	\	\	\	\	\	\	\	1724000448-PR-PID-00013 / 002	02	
50	X	S50004	50-XA-S50004	SOFTENING FILTER S-50004	FAULT ALARM	UCP	\	\	\	\	\	\	\	\	\	\	\	1724000448-PR-PID-00013 / 002	02	
50	X	S50010	50-XA-S50010	UV STERILIZER S-50010	FAULT ALARM	UCP	\	\	\	\	\	\	\	\	\	\	\	1724000448-PR-PID-00013 / 002	02	
50	X	001	50-XA-001	GAS CONFIRMED INSIDE CONTAINER	ALARM (SYSTEM)	FGS	\	\	\	\	\	\	\	\	\	\	\	1724000448-PR-PID-00013 / 003	02	
50	X	002	50-XA-002	SMOKE CONFIRMED INSIDE CONTAINER	ALARM (SYSTEM)	FGS	\	\	\	\	\	\	\	\	\	\	\	1724000448-PR-PID-00013 / 003	02	

CROSSWIND

001724000448-IN-LIS-0002001

VHOLLANDSE KUST NOORD WIND PARK ProjectContract No. CW-I-WP4-2023-05

WATER TREATMENT PACKAGE A-50000
INSTRUMENT LIST WITH SET POINTS/CONTROL/ALARM/SHUTDOWN

ROSETTI MARINO

Date: 25/11/2024
Rev. 04

UNIT	VARIABLE	LOOP	TAG NUMBER	SERVICE	INSTRUMENT TYPE DESCRIPTION	LOC	INSTRUMENT RANGE (MIN/MAX)	CALIBRATION RANGE (MIN/MAX)	INSTRUMENT ALARM				SET	ENGINEERING UNITS	ELECTRICAL EXECUTION	MANUFACTURER	MODEL	P&ID REFERENCE	REV	NOTE
									LL	L	H	HH								
50	X	003	50-XA-003	F&G FAULT	ALARM (SYSTEM)	FGS	\	\	\	\	\	\	\	\	\	\	\	1724000448-PR-PID-00013 / 003	02	
50	X	001	50-XS-001	CONTAINER SHUTDOWN	SHUTDOWN ALARM	SIS	\	\	\	\	\	\	\	\	\	\	\	1724000448-PR-PID-00013 / 003	02	SIGNAL FROM SIS SYSTEM
50	X	020	50-XV-020	SEAWATER INLET	MOTOR OPERATED VALVE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	546 PRO	1724000448-PR-PID-00013 / 002	02	
50	X	020	50-XY-020	MOV OPEN/CLOSE - SEAWATER INLET	MOV COMMAND	UCP	\	\	\	\	\	\	\	\	SAFE AREA	\	\	1724000448-PR-PID-00013 / 002	02	
50	X	020	50-XZSH-020	MOV OPENED - SEAWATER INLET	LIMIT SWITCH OPEN	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 002	02	
50	X	020	50-XZSL-020	MOV CLOSED - SEAWATER INLET	LIMIT SWITCH CLOSE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 002	02	
50	X	021	50-XV-021	P-50003A SUCTION	MOTOR OPERATED VALVE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	546 PRO	1724000448-PR-PID-00013 / 003	02	
50	X	021	50-XY-021	MOV OPEN/CLOSE - P-50003A SUCTION	MOV COMMAND	UCP	\	\	\	\	\	\	\	\	SAFE AREA	\	\	1724000448-PR-PID-00013 / 003	02	
50	X	021	50-XZSH-021	MOV OPENED - P-50003A SUCTION	LIMIT SWITCH OPEN	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 003	02	
50	X	021	50-XZSL-021	MOV CLOSED - P-50003A SUCTION	LIMIT SWITCH CLOSE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 003	02	
50	X	022	50-XV-022	P-50003B SUCTION	MOTOR OPERATED VALVE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	546 PRO	1724000448-PR-PID-00013 / 003	02	
50	X	022	50-XY-022	MOV OPEN/CLOSE - P-50003B SUCTION	MOV COMMAND	UCP	\	\	\	\	\	\	\	\	SAFE AREA	\	\	1724000448-PR-PID-00013 / 003	02	
50	X	022	50-XZSH-022	MOV OPENED - P-50003B SUCTION	LIMIT SWITCH OPEN	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 003	02	
50	X	022	50-XZSL-022	MOV CLOSED - P-50003B SUCTION	LIMIT SWITCH CLOSE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 003	02	
50	X	023	50-XV-023	P-50003A FLUSHING	MOTOR OPERATED VALVE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	546 PRO	1724000448-PR-PID-00013 / 003	02	
50	X	023	50-XY-023	MOV OPEN/CLOSE - P-50003A FLUSHING	MOV COMMAND	UCP	\	\	\	\	\	\	\	\	SAFE AREA	\	\	1724000448-PR-PID-00013 / 003	02	
50	X	023	50-XZSH-023	MOV OPENED - P-50003A FLUSHING	LIMIT SWITCH OPEN	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 003	02	
50	X	023	50-XZSL-023	MOV CLOSED - P-50003A FLUSHING	LIMIT SWITCH CLOSE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 003	02	
50	X	024	50-XV-024	P-50003B FLUSHING	MOTOR OPERATED VALVE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	546 PRO	1724000448-PR-PID-00013 / 003	02	
50	X	024	50-XY-024	MOV OPEN/CLOSE - P-50003B FLUSHING	MOV COMMAND	UCP	\	\	\	\	\	\	\	\	SAFE AREA	\	\	1724000448-PR-PID-00013 / 003	02	
50	X	024	50-XZSH-024	MOV OPENED - P-50003B FLUSHING	LIMIT SWITCH OPEN	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 003	02	
50	X	024	50-XZSL-024	MOV CLOSED - P-50003B FLUSHING	LIMIT SWITCH CLOSE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 003	02	
50	X	025	50-XV-025	FRESH WATER FROM A-50007A	MOTOR OPERATED VALVE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	546 PRO	1724000448-PR-PID-00013 / 004	02	
50	X	025	50-XY-025	MOV OPEN/CLOSE - FRESH WATER FROM A-50007A	MOV COMMAND	UCP	\	\	\	\	\	\	\	\	SAFE AREA	\	\	1724000448-PR-PID-00013 / 004	02	
50	X	025	50-XZSH-025	MOV OPENED - FRESH WATER FROM A-50007A	LIMIT SWITCH OPEN	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 004	02	
50	X	025	50-XZSL-025	MOV CLOSED - FRESH WATER FROM A-50007A	LIMIT SWITCH CLOSE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 004	02	
50	X	026	50-XV-026	FRESH WATER DRAIN FROM A-50007A	MOTOR OPERATED VALVE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	546 PRO	1724000448-PR-PID-00013 / 004	02	
50	X	026	50-XY-026	MOV OPEN/CLOSE - FRESH WATER DRAIN FROM A-50007A	MOV COMMAND	UCP	\	\	\	\	\	\	\	\	SAFE AREA	\	\	1724000448-PR-PID-00013 / 004	02	
50	X	026	50-XZSH-026	MOV OPENED - FRESH WATER DRAIN FROM A-50007A	LIMIT SWITCH OPEN	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 004	02	
50	X	026	50-XZSL-026	MOV CLOSED - FRESH WATER DRAIN FROM A-50007A	LIMIT SWITCH CLOSE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 004	02	
50	X	027	50-XV-027	BRINE FROM A-50007A	MOTOR OPERATED VALVE	Field	\	\	\	\	\	\	\	\	SAFE AREA	TRUST VALVES	Z5732-00-001-KC	1724000448-PR-PID-00013 / 004	02	
50	X	027	50-XY-027	MOV OPEN/CLOSE - BRINE FROM A-50007A	MOV COMMAND	UCP	\	\	\	\	\	\	\	\	SAFE AREA	\	\	1724000448-PR-PID-00013 / 004	02	
50	X	027	50-XZSH-027	MOV OPENED - BRINE FROM A-50007A	LIMIT SWITCH OPEN	Field	\	\	\	\	\	\	\	\	SAFE AREA	TRUST VALVES	AOX-005	1724000448-PR-PID-00013 / 004	02	
50	X	027	50-XZSL-027	MOV CLOSED - BRINE FROM A-50007A	LIMIT SWITCH CLOSE	Field	\	\	\	\	\	\	\	\	SAFE AREA	TRUST VALVES	AOX-005	1724000448-PR-PID-00013 / 004	02	
50	X	030	50-XV-030	BRINE FROM A-50007B	MOTOR OPERATED VALVE	Field	\	\	\	\	\	\	\	\	SAFE AREA	TRUST VALVES	Z5732-00-001-KC	1724000448-PR-PID-00013 / 004	02	
50	X	030	50-XY-030	MOV OPEN/CLOSE - BRINE FROM A-50007B	MOV COMMAND	UCP	\	\	\	\	\	\	\	\	SAFE AREA	\	\	1724000448-PR-PID-00013 / 004	02	
50	X	030	50-XZSH-030	MOV OPENED - BRINE FROM A-50007B	LIMIT SWITCH OPEN	Field	\	\	\	\	\	\	\	\	SAFE AREA	TRUST VALVES	AOX-005	1724000448-PR-PID-00013 / 004	02	

UNIT	VARIABLE	LOOP	TAG NUMBER	SERVICE	INSTRUMENT TYPE DESCRIPTION	LOC	INSTRUMENT RANGE (MIN/MAX)	CALIBRATION RANGE (MIN/MAX)	INSTRUMENT ALARM				SET	ENGINEERING UNITS	ELECTRICAL EXECUTION	MANUFACTURER	MODEL	P&ID REFERENCE	REV	NOTE
									LL	L	H	HH								
50	X	030	50-XZSL-030	MOV CLOSED - BRINE FROM A-50007B	LIMIT SWITCH CLOSE	Field	\	\	\	\	\	\	\	\	SAFE AREA	TRUST VALVES	AOX-005	1724000448-PR-PID-00013 / 004	02	
50	X	031	50-XV-031	FRESH WATER OUTLET S-50004	MOTOR OPERATED VALVE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	546 PRO	1724000448-PR-PID-00013 / 005	02	
50	X	031	50-XY-031	MOV OPEN/CLOSE - FRESH WATER OUTLET S-50004	MOV COMMAND	UCP	\	\	\	\	\	\	\	\	SAFE AREA	\	\	1724000448-PR-PID-00013 / 005	02	
50	X	031	50-XZSH-031	MOV OPENED - FRESH WATER OUTLET S-50004	LIMIT SWITCH OPEN	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 005	02	
50	X	031	50-XZSL-031	MOV CLOSED - FRESH WATER OUTLET S-50004	LIMIT SWITCH CLOSE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 005	02	
50	X	032	50-XV-032	FRESH WATER OFF SPEC OUTLET S-50004	MOTOR OPERATED VALVE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	546 PRO	1724000448-PR-PID-00013 / 005	02	
50	X	032	50-XY-032	MOV OPEN/CLOSE - FRESH WATER OFF SPEC OUTLET S-50004	MOV COMMAND	UCP	\	\	\	\	\	\	\	\	SAFE AREA	\	\	1724000448-PR-PID-00013 / 005	02	
50	X	032	50-XZSH-032	MOV OPENED - FRESH WATER OFF SPEC OUTLET S-50004	LIMIT SWITCH OPEN	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 005	02	
50	X	032	50-XZSL-032	MOV CLOSED - FRESH WATER OFF SPEC OUTLET S-50004	LIMIT SWITCH CLOSE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 005	02	
50	X	033	50-XV-033	H-50001 SEAWATER DRAIN	MOTOR OPERATED VALVE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	546 PRO	1724000448-PR-PID-00013 / 002	02	
50	X	033	50-XY-033	MOV OPEN/CLOSE - H-50001 SEAWATER DRAIN	MOV COMMAND	UCP	\	\	\	\	\	\	\	\	SAFE AREA	\	\	1724000448-PR-PID-00013 / 002	02	
50	X	033	50-XZSH-033	MOV OPENED - H-50001 SEAWATER DRAIN	LIMIT SWITCH OPEN	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 002	02	
50	X	033	50-XZSL-033	MOV CLOSED - H-50001 SEAWATER DRAIN	LIMIT SWITCH CLOSE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 002	02	
50	X	034	50-XV-034	T-50006 SEAWATER DRAIN	MOTOR OPERATED VALVE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	546 PRO	1724000448-PR-PID-00013 / 002	02	
50	X	034	50-XY-034	MOV OPEN/CLOSE - T-50006 SEAWATER DRAIN	MOV COMMAND	UCP	\	\	\	\	\	\	\	\	SAFE AREA	\	\	1724000448-PR-PID-00013 / 002	02	
50	X	034	50-XZSH-034	MOV OPENED - T-50006 SEAWATER DRAIN	LIMIT SWITCH OPEN	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 002	02	
50	X	034	50-XZSL-034	MOV CLOSED - T-50006 SEAWATER DRAIN	LIMIT SWITCH CLOSE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 002	02	
50	X	035	50-XV-035	T-50008 FRESH WATER DRAIN	MOTOR OPERATED VALVE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	546 PRO	1724000448-PR-PID-00013 / 005	02	
50	X	035	50-XY-035	MOV OPEN/CLOSE - T-50008 FRESH WATER DRAIN	MOV COMMAND	UCP	\	\	\	\	\	\	\	\	SAFE AREA	\	\	1724000448-PR-PID-00013 / 005	02	
50	X	035	50-XZSH-035	MOV OPENED - T-50008 FRESH WATER DRAIN	LIMIT SWITCH OPEN	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 005	02	
50	X	035	50-XZSL-035	MOV CLOSED - T-50008 FRESH WATER DRAIN	LIMIT SWITCH CLOSE	Field	\	\	\	\	\	\	\	\	SAFE AREA	GEORG FISCHER	EA15	1724000448-PR-PID-00013 / 005	02	
950	MF	05201	950-MFA-05201	FIRE MANUAL PUSH BUTTON	MANUAL ALARM FOR EMERGENCY	Field	\	\	\	\	\	\	\	\	SAFE AREA	SIA	E2S – BExCP3-BG	1724000448-PR-PID-00013 / 003	02	SIGNAL TO B400-FGS-002
950	X	05201	950-XL-05201	CONTAINER AMBER LAMP SIGNAL	ALARM/STATUS AMBER LAMP	Field	\	\	\	\	\	\	\	\	SAFE AREA	SIA	E2S - D1xB2X05	1724000448-PR-PID-00013 / 003	02	SIGNAL FROM B400-FGS-002
950	X	05202	950-XL-05202	CONTAINER RED LAMP SIGNAL	ALARM/STATUS RED LAMP	Field	\	\	\	\	\	\	\	\	SAFE AREA	SIA	E2S - D1xB2X05	1724000448-PR-PID-00013 / 003	02	SIGNAL FROM B400-FGS-002
950	X	05201	950-XZ-05201	CONTAINER ACOUSTIC SIGNAL	ALARM/STATUS SOUNDER	Field	\	\	\	\	\	\	\	\	SAFE AREA	SIA	E2S – D1xS1F	1724000448-PR-PID-00013 / 003	02	SIGNAL FROM B400-FGS-002