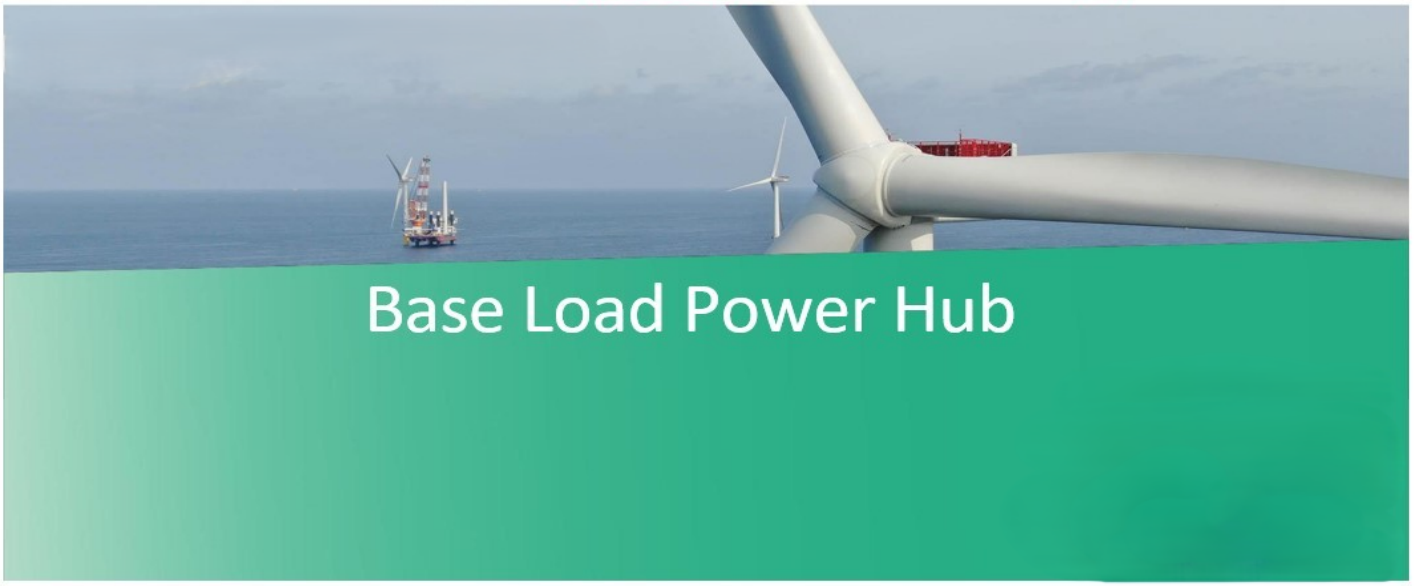
CROSSWIND

ROSETTI MARINO

PROVERLIS

PROJECT **123A90 - HOLLANDSE KUST NOORD WIND PARK**
BLPH Project



COMMISSIONING DOSSIER (ONSHORE)

SYSTEM	55 Waste Water
SUBSYSTEM	55-00 Waste Water Disposal

CROSSWIND

123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

COMMISSIONING DOSSIER INDEX

ROSETTI MARINO

Sub System N°:	55-00	**Tick as appropriate**	ONSHORE	OK
Description:	Waste Water Disposal		OFFSHORE	

1. *SUB-SYSTEM DEFINITION*	OK
1.1 Sub-System Description / Boundary Limit Drawings	
2. *READY FOR OPERATION CERTIFICATE*	OK
2.1 Achievement Of Ready for Operation Certificate (RFO)	
2.2 Exception Punch Lists (per discipline)	
2.3 “As-Commissioned” P&ID’s / SLD’s / D&ID’s / C&E’s	
3. *CONSOLIDATED PUNCH LISTS*	OK
3.1 Cleared and Residual Items (sorted by discipline)	
4. *FUNCTIONAL TESTS SHEETS*	OK
4.1 Electrical functional test sheets index	
4.2 Electrical “As-Commissioned” interconnection diagrams	
4.3 Instrumentation Functional Test Sheets Index	
4.4 Instrumentation “As-Commissioned” interconnection diagrams	
4.5 Telecommunication Functional Test Sheets Index	
4.6 Telecommunication “As-Commissioned” I.C.D. / TSLD’s	
5. *SITE / OPERATIONAL:*	NA
5.1 Operational Test Procedure	
5.2 Operational Test Certificates	
6. *PIPING AND VESSEL PREPARATION*	OK
6.1 Final Mechanical / Vessel Inspection Checks Index	
6.2 Leak Test / Drying / Inerting Test Sheets Index	
6.3 Chemical Loading & First Fill records Index	
6.4 Chemical Cleaning Reports and Records Index	
6.5 Lubrication Schedule	
7. *VENDORS*	NA
7.1 Vendor Package Summary Index	
7.2 SAT Procedure with associated punch list and reference (Front Page)	
7.3 Vendor Spares & Special Tools lists references	
7.4 Vendor Data / Operations / Maintenance Manuals References	
8. *LIST OF MODIFICATIONS*	NA
8.1 List of changes initiated during the WORKSITE Commissioning phase pertaining to the relevant Sub-System will be incorporated in this section with relevant references (with location and position of blinds/spades, isolation LO & LC valves, list of electrical isolation status, and remaining inhibits and overrides)	
9. *SUPPORTING DOCUMENTS*	NA
9.1 Other supporting documents (as applicable)	

	Contractor Commissioning Site Leader	Company Commissioning Site Leader
Name	Anthony Iveson	Gerry McCann
Date	2025-05-12	2025-05-13
Signature	PROVERLIS Digitaly signed by Anthony Iveson 2025-05-12T11:08:01.405Z	PROVERLIS Digitaly signed by Gerry McCann 2025-05-13T12:20:20.375Z

Section 1 SUB-SYSTEM DEFINITION

DRAWING NO. DRAWING_NO.

REV. REV

T-55001
WASTE WATER TANK
CAPACITY : 16 m3
DESIGN P/T : 0.005 barg / 80°C
MATERIAL : CARBON STEEL
02

Waste Water Disposal System SS 55-00

123A90-DDL-PR-PID-80022
BIOCIDE DOSING UNIT
E
1"-CI-043-01CP-E
02
NOTA 7

123A90-DDL-PR-PID-80029
FROM LIQUID SEAL DRUM
NNF
1"-WW-202-01CS-H
02

123A90-DDL-PR-PID-80011
FROM ELECTROLYSER PACKAGE
NNF
1"-WW-004-01CS-H

DECK HOOK-UP 001
WW-004
WW-081
02
1"-WW-081-01CS-H

SP 0039
2"-AV-256-01CS-N
HOOK-UP 002
RS
RS
X
I1
I2
02

55 LI 001 H L
55 LIT 001
3"
L

M1 24"

02

T-55001
TRIM LINE:
3" WW-200-01CS-H
NOTE 8
02

NOTE 1, 5

123A90-DDL-PR-PID-80022
FROM WATER TREARMENT PACKAGE
NNF
1"-WW-038-01CS-H
DECK HOOK-UP 001
02

BLPH-MV-400
1"
3/4"
1"x3/4"
CONC. RED. 3/4"x1/2"
BLPH-MV-401
1/2"
SAMPLE CONNECTION

3"-WW-201-01CS-F
NOTE 4
BLPH-MV-467
3"
LC
02

NOTES

1. ALL STILLING TUBES AND DIP PIPES SHALL BE SUPER DUPLEX.
2. DELETED.
3. DELETED.
4. DRAIN LINE TO SHIP DISPOSAL. 02
5. PERFORATED STILLING TUBE.
6. DELETED. 02
7. FOR PERIODIC DOSING OF THE WASTE WATER TANK.
8. FOR DESCRIPTION AND SPECIFICATION OF VESSEL NOZZLE, REFERENCE SHALL BE MADE TO THE TECHNICAL DATA SHEET FOR WASTE WATER TANK - T-55001, DOC. N. "123A90-DDL-MAC-DS-50008"

HOLDS

1. DELETED.
2. DELETED.
3. DELETED. 02
4. DELETED.
5. DELETED.

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	12/06/2024	CIM	RZI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	15/02/2024	CIM	RZI	DLO	ISSUE FOR ACCEPTANCE (IFA)
00	20/10/2023	CIM	RZI	DLO	ISSUE FOR ACCEPTANCE (IFA)

CROSSWIND

ROSETTI MARINO

TITLE :
BLPH PIPING AND INSTRUMENTATION DIAGRAM
WATER DISPOSAL SHEET 2

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE NTS
DRAWN	CHECKED	APPROVED	DATE
A1	DRAWING NO. 123A90-DDL-PR-PID-80026	SHEET 001	REV. 02

File Name : FILE_NAME

DRAWING NO. DRAWING_NO.

REV. REV

V-43001

HYDROGEN VENT KO DRUM

SIZE : 600 mm (ID) x 2350 mm (H)
DESIGN P/T : 3.5 barg / -10 / 80°C
MATERIAL : LTCS + 1 mm CA 02

Q-43004

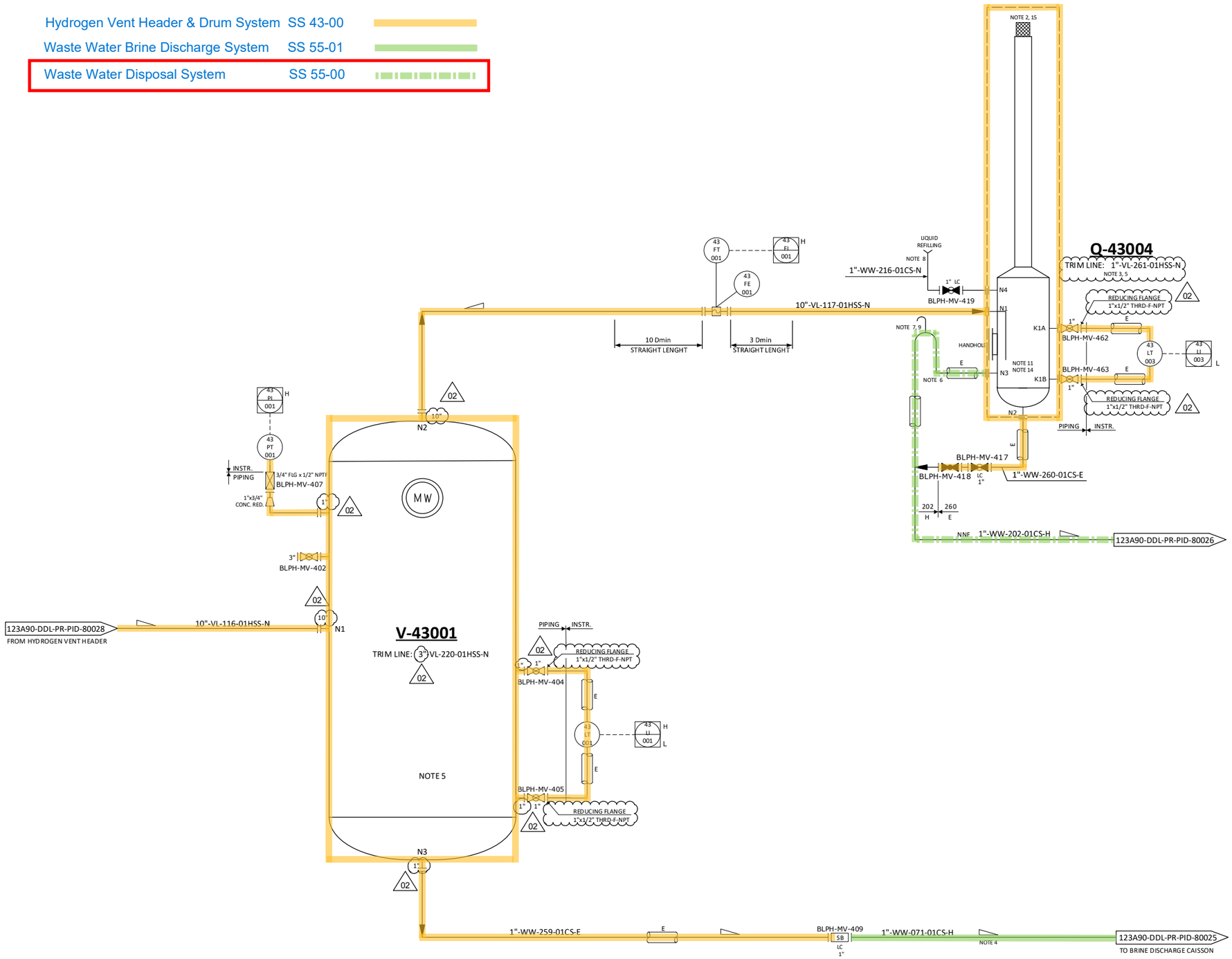
HYDROGEN VENT NOTE 1

SIZE : 254 mm (ID)
DESIGN P/T : 3.5 barg / -10 / 80°C
MATERIAL : LTCS + 3 mm CA 02

Hydrogen Vent Header & Drum System SS 43-00

Waste Water Brine Discharge System SS 55-01

Waste Water Disposal System SS 55-00



NOTES

1. VENT TO SAFE LOCATION SEGREGATED FROM OTHER VENTS.
2. VENT TO BE EQUIPPED WITH FLAME ARRESTOR AND BIRD SCREEN.
3. LIQUID SEAL DRUM IS PART OF THE VENT SYSTEM.
4. LIQUID DRAIN LINES TO BE ROUTED TO ENSURE GRAVITY DRAIN.
5. HYDROGEN VENT KO DRUM AND LIQUID SEAL DRUM TO BE HEAT TRACING.
   - V-43001 HEAT TRACED FROM B.T.L. UP TO 600 mm, BOTTOM HEAD ALSO TO BE HEAT TRACED. 02
6. SEAL LEG WILL BE DETERMINATED ON THE MAXIMUM BACK PRESSURE IN THE VENT. 02
7. SEAL VENT TO BE PLACED INTO A SAFE POSITION.
8. FILLING LINE TO BE PLACED IN AN ACCESSIBLE POSITION.
9. TRACED FROM NOZZLE N3 UP TO SWAN NECK.
10. DELETED. 02
11. INLET DIP LEG SUBMERSION HEIGHT OF 0.6 m. 02
12. DELETED. 02
13. FOR DESCRIPTION AND SPECIFICATION OF VESSEL NOZZLE, REFERENCE SHALL BE MADE TO THE TECHNICAL DATA SHEET FOR H2 VENT KOD.
14. LIQUID INSIDE SEAL DRUM IS A WATER - GLYCOL MIXTURE WITH 40% VOLUME OF GLYCOL.
15. TOP OF TIP OF H2 VENT SHALL BE AT AS MINIMUM 6.2 m FROM HIGHEST REACHABLE PLATFORM.

HOLDS

1. DELETED.
2. DELETED.
3. DELETED.

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	12/06/2024	CIM	RZI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	15/02/2024	CIM	RZI	DLO	ISSUE FOR ACCEPTANCE (IFA)
00	20/10/2023	CIM	RZI	DLO	ISSUE FOR ACCEPTANCE (IFA)

CROSSWIND

ROSETTI MARINO

TITLE :
BLPH PIPING AND INSTRUMENTATION DIAGRAM
HYDROGEN VENT DRUM

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE NTS
DRAWN	CHECKED	APPROVED	DATE
A1	DRAWING NO. 123A90-DDL-PR-PID-80029		SHEET 001 / REV. 02

File Name : FILE_NAME

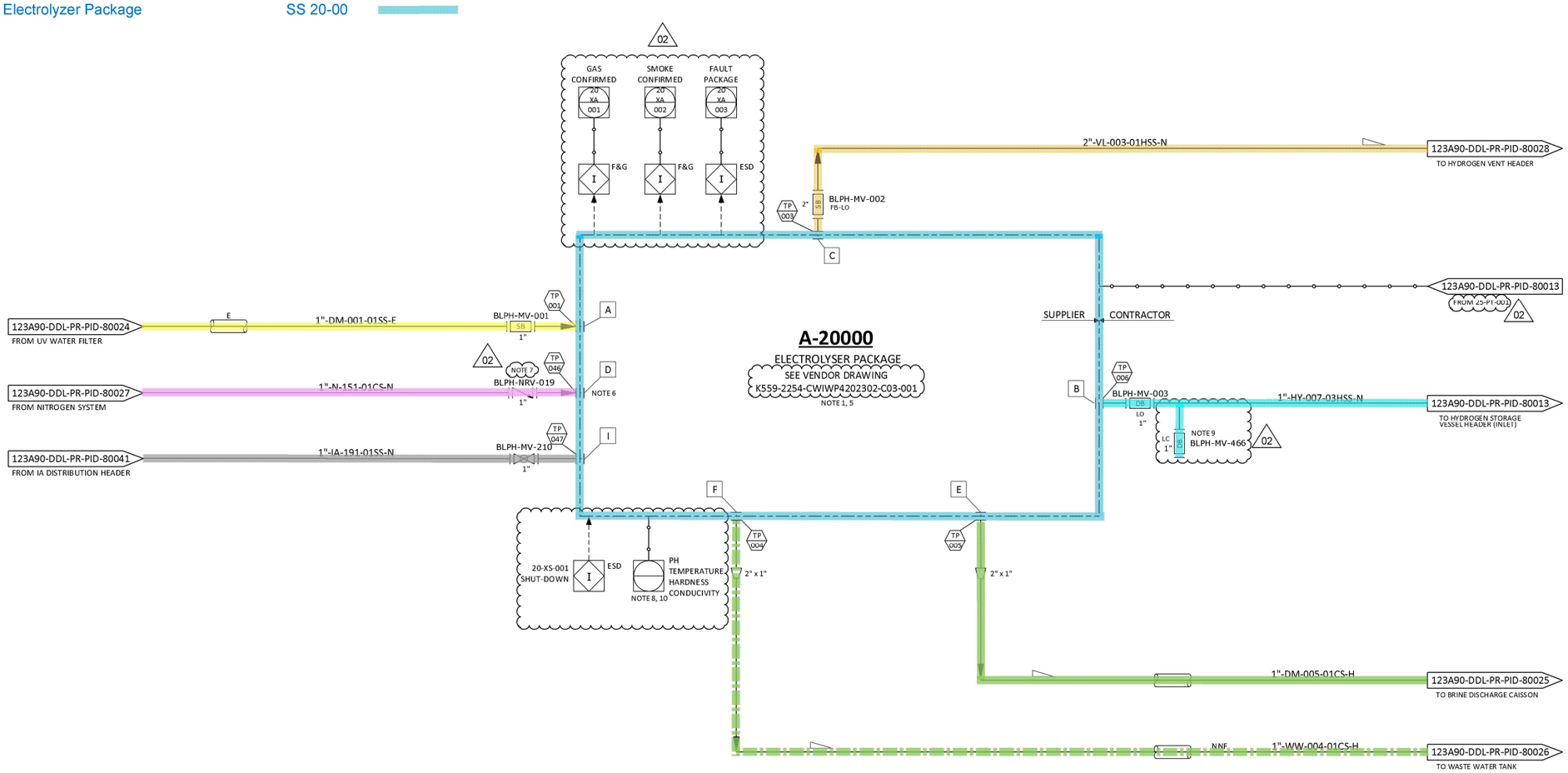
DRAWING NO. DRAWING_NO.

REV. REV

Instrumen Air Distribution Network	SS 63-30
Water Desalination & Distribution System	SS 50-10
Hydrogen Storage Vessel Header (Intel)	SS 43-00
Nitrigen Distribution Network	SS 64-11
Waste Water Brine Discharge System	SS 55-01
Waste Water Disposal System	SS 55-00
Hydrigen Storage Vessel Header (Intel)	SS 25-07
Electrolyzer Package	SS 20-00

A-20000
ELECTROLYSER PACKAGE

DUTY: 2.5MW
DESIGN PRESSURE: 40 barg
DESIGN TEMPERATURE: 80 °C
H2 GENERATING CAPACITY: 500 Nm³/h



NOTES

1. PACKAGE SUPPLIED WITH POWER FROM THE BLPH ELECTRICAL SYSTEM.
2. DELETED.
3. DELETED.
4. DELETED.
5. ELECTROLYSER PACKAGE INCLUDES AN OXYGEN VENT LINE WHICH IS IN THE SCOPE OF SUPPLY OF THE ELECTROLYSER PACKAGE UP TO THE ATMOSPHERE. NO PHYSICAL INTERFACE IS PRESENT BETWEEN ELECTROLYSER PACKAGE AND CONTRACTOR ON THIS LINE.
6. AN ISOLATION VALVE DOWNSTREAM THE CHECK VALVE NRV-019 IS PROVIDED WITHIN THE PACKAGE A-20000.
7. CHECK VALVE NRV-019 TO BE INSTALLED AS CLOSE AS POSSIBLE TO THE ELECTROLYSER PACKAGE A-20000.
8. SERIAL COMMUNICATION WITH CONTROL SYSTEM.
9. NITROGEN PURGING CONNECTION TO BE LOCATED AS CLOSE AS POSSIBLE TO MANUAL VALVE BLPH-MV-003.
10. PH, TEMPERATURE, HARDNESS AND CONDUCTIVITY SHALL BE SENT FROM CONTROL SYSTEM TO ELECTROLISER UCP IN ADDITION TO THE OTHER SOFTWARE SIGNALS.

02

HOLDS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	12/06/2024	CIM	RZI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	15/02/2024	CIM	RZI	DLO	ISSUE FOR ACCEPTANCE (IFA)
00	20/10/2023	CIM	RZI	DLO	ISSUE FOR ACCEPTANCE (IFA)

CROSSWIND

ROSETTI MARINO

TITLE :
BLPH PIPING AND INSTRUMENTATION DIAGRAM
ELECTROLYSER PACKAGE

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK	SCALE	NTS
DRAWN	CHECKED	APPROVED	DATE
A1	DRAWING NO. 123A90-DDL-PR-PID-80011	SHEET 001	REV. 02

File Name : FILE_NAME

Section 2 READY FOR OPERATION

Section 2.1 Achievement Of Ready for Operation Certificate (RFO)

ROSETTI MARINO

123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

CROSSWIND

Ready For Operation (RFO) Certificate

COMPLETE		PARTIAL	●

Revision:	1		Issued on:	2025-04-18	
System:	55	/	Waste Water		
SubSystem:	55-00	/	Waste Water Disposal		

We hereby confirm that all Mechanical Completion (MC) and Pre-Commissioning/Commissioning (Pre-Comm./Comm.) activities for the above-mentioned System/Sub-System have been successfully completed in accordance with project specifications, relevant standards and contractual requirements. The System/Sub-System has been tested and verified to ensure readiness for operation. Issuance of this Certificate shall not release CONTRACTOR from any of his obligations, responsibilities or liabilities under the CONTRACT.

Mechanical Completion: All required MC activities have been completed and approved
Pre-Commissioning & Commissioning: All required Pre-Comm. and Comm. activities and OTPs have been completed and approved (Status Index attached)
Punch List: All Punch items categorized as A and B have been cleared (PL report attached)
Documentation: As-built documentation and Commissioning dossier has been completed, reviewed and approved

PUNCH LIST	PENDING POINTS
Note: All Category "A" and "B" Items must be cleared prior to issuance of the Ready For Operation (RFO) Certificate	B 4

REMARKS: PARTIAL RFO: nr.3 ITR-A outstanding related to Transition Piece activity , nr.27 ITR-A outstanding to be cleared in OFFSHORE , nr. 1 ITR-B outstanding to be cleared in OFFSHORE phase.

	CONTRACTOR Commissioning Manager	**COMPANY** Commissioning Lead
Name	Anthony Iveson	Gerry McCann
Date	2025-04-18	2025-05-08
Signature	PROVERLIS Digitaly signed by Anthony Iveson 2025-04-18T11:55:51.151Z	PROVERLIS Digitaly signed by Gerry McCann 2025-05-08T14:37:59.835Z

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 55-00 & process: COMM

Instrumental	55-00 Waste Water Disposal						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
55-LIT-001	Radar Level Transmitter - Vessel T-55001 Level	ONSHORE	C10003230	FJ01A	100	2025-04-02	RFO 1

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 55-00 & process: COMM

Piping	55-00 Waste Water Disposal						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
55-00	Service Test Waste Water Disposal System	OFFSHORE	C10004912	4245	0	-	-

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 55 Waste Water
SUBSYSTEM 55-00 Waste Water Disposal

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002058	B	55-00-TP-061 C10003681	Spool has not been installed in erection. Inspection points from 3 to 6 of ITR "Inspection before test" to be checked during reinstatement.	.		KAlbonetti 2024-12-19	2025-04-07	LNovaga 2025-04-07	2025-04-07
C30002336	B	55-00-TP-004 C10003255	SK.027 (SH.1/1): PS-01056.1 and PS-01056.2, positions R1 and R2 have not been installed and the position F1 has not been drilled.	.		KAlbonetti 2025-01-03	2025-02-19	KAlbonetti 2025-02-19	2025-02-19
C30003116	B	55-00-TP-026 C10003428	SK.003 (SH.1/2): The earthing plate has been placed oriented toward South instead of West. Engineering dpt. accepted it via e-mail, but the	.		KAlbonetti 2025-01-21	2025-04-02	LNovaga 2025-04-02	2025-04-02
C30003118	B	55-00-TP-026 C10003428	PS-02138.2 not installed. Position R2 is missing and the UPN80 has not been drilled yet.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003119	B	55-00-TP-026 C10003428	PS-02091.1 has not been assembled.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003120	B	55-00-TP-026 C10003428	PS-02092.1 has not been assembled.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003123	B	55-00-TP-026 C10003428	Inspection point n.4 not checked because the line is not aligned due preparation for pressure test.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003124	B	55-00-TP-026 C10003428	SP-02014.1: position is 220 mm from W15 of SK.100 instead of 162 mm as marked in the isometric.	.		KAlbonetti 2025-01-21	2025-04-02	LNovaga 2025-04-02	2025-04-02
C30003127	B	55-00-TP-026 C10003428	PS-02043.1 and PS-02042.1 shoes are not touching on the structure. Distance of 10 mm.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 55 Waste Water
SUBSYSTEM 55-00 Waste Water Disposal

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003129	B	55-00-TP-026 C10003428	PS-02044.1 and PS-02045.1' shoes are not touching on the structure. Distance of 10 mm.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003131	B	55-00-TP-026 C10003428	PS-02120.1 and PS-02119.1' shoes do not touch on the structures. Distance of 5 mm.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003133	B	55-00-TP-026 C10003428	PS-01001.2: position R3 not installed and structural part not drilled yet.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003134	B	55-00-TP-026 C10003428	PS-02124.3: position R2 is missing.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003197	B	55-00-TP-062 C10003686	All piping supports of type "C-16", "S-211" and "S-212" have not been assembled as for specification. They shall all be checked during	.		KAlbonetti 2025-01-25	2025-02-17	LNovaga 2025-02-17	2025-02-17
C30003198	B	55-00-TP-060 C10003673	All piping supports type "S-64" and "C-33" have not been installed as for specification. The structural part is ok. They shall be checked during	.		MBruschi 2025-01-25	2025-04-07	LNovaga 2025-04-07	2025-04-07
C30003199	B	55-00-TP-060 C10003673	Spools belonging to the TP not installed in erection. Cehck performed on ground with no equipmente installed before test. Inspection	.		MBruschi 2025-01-25	2025-04-07	LNovaga 2025-04-07	2025-04-07
C30003277	B	55-00-TP-026 C10003429	SK.068 (SH.1/2): Suppost PS-02120.2 has not been assembled.	.		KAlbonetti 2025-01-29	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003914	B	55-00-TP-005 C10003263	PS-01035.1 and PS-01035.2 not installed.	.		KAlbonetti 2025-02-17	2025-03-04	LNovaga 2025-03-04	2025-03-04

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 55 Waste Water
SUBSYSTEM 55-00 Waste Water Disposal

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003916	B	55-00-TP-005 C10003263	Horizontal section between J1 and position n.2 has been shortened to 290 mm to go correctly into the penetration at +23310.	.		KAlbonetti 2025-02-17	2025-04-02	LNovaga 2025-04-02	2025-04-02
C30004008	B	55-00-TP-004 C10003256	The support PS-01056.1is not aligned and does not fully touch the structural support that has a misalignment as in photo.	.		LNovaga 2025-02-19	2025-02-25	KAlbonetti 2025-02-25	2025-02-25
C30004133	B	55-00-TP-062 C10003688	Color coding and fluid direction are missing.	.		KAlbonetti 2025-02-25	2025-03-24	LNovaga 2025-03-24	2025-03-24
C30004134	B	55-00-TP-062 C10003688	At 700 down from the PS-03080 there is a point where touch-up is necessary but not possible until the scaffold hasn't been removed.	.		KAlbonetti 2025-02-25	2025-04-07	LNovaga 2025-04-07	2025-04-07
C30004192	B	55-00-TP-005 C10003264	Support PS-PS-01035.1 is S-64 – 1” – 300 – 200 instead S-64 – 1” – 100 – 200	.		LNovaga 2025-03-04			
C30004292	B	55-00-TP-005 C10003265	The joint and the overlap of the sheets are not sealed.	.		LNovaga 2025-03-27	2025-04-04	LNovaga 2025-04-04	2025-04-04
C30004293	B	55-00-TP-005 C10003265	Missing the insulation pillow around the joint 028-1-J1.	.		LNovaga 2025-03-27	2025-04-04	LNovaga 2025-04-04	2025-04-04
C30004294	B	55-00-TP-005 C10003265	The part near the penetration is not insulated because there are water hoses for comm activities. See attached photo.	.		LNovaga 2025-03-27			
C30004302	B	55-00-TP-026 C10003430	Missing the insulation pillows around jonts 003-1-J1, 003-1-J2 and 100-1-J1.	.		LNovaga 2025-04-02	2025-04-04	LNovaga 2025-04-04	2025-04-04

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 55 Waste Water
SUBSYSTEM 55-00 Waste Water Disposal

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004318	B	55-00-TP-004 C10003257	Missing the insulation pillow around the joint 027-1-J1.	.		LNovaga 2025-04-03	2025-04-04	LNovaga 2025-04-04	2025-04-04
C30004319	B	55-00-TP-004 C10003257	Color coding and fluid direction are missing.	.		LNovaga 2025-04-03			
C30004320	B	55-00-TP-060 C10003674	The PS-01054.1 (S-64) stand measures 140 mm x 200 mm instead of 100 mm x 200 mm, and the structural stand (UPN100) is 550 mm long instead	.		LNovaga 2025-04-07			

Section 2.2 Exception Punch Lists (per discipline)

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	55	Waste Water
SUBSYSTEM	55-00	Waste Water Disposal

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004192	B	55-00-TP-005 C10003264	Support PS-PS-01035.1 is S-64 – 1” – 300 – 200 instead S-64 – 1” – 100 – 200	.		LNovaga 2025-03-04			
C30004294	B	55-00-TP-005 C10003265	The part near the penetration is not insulated because there are water hoses for comm activities. See attached photo.	.		LNovaga 2025-03-27			
C30004319	B	55-00-TP-004 C10003257	Color coding and fluid direction are missing.	.		LNovaga 2025-04-03			
C30004320	B	55-00-TP-060 C10003674	The PS-01054.1 (S-64) stand measures 140 mm x 200 mm instead of 100 mm x 200 mm, and the structural stand (UPN100) is 550 mm long instead	.		LNovaga 2025-04-07			

Section 2.3 “As-Commissioned” P&ID's / SLD's / D&ID's / C&E's

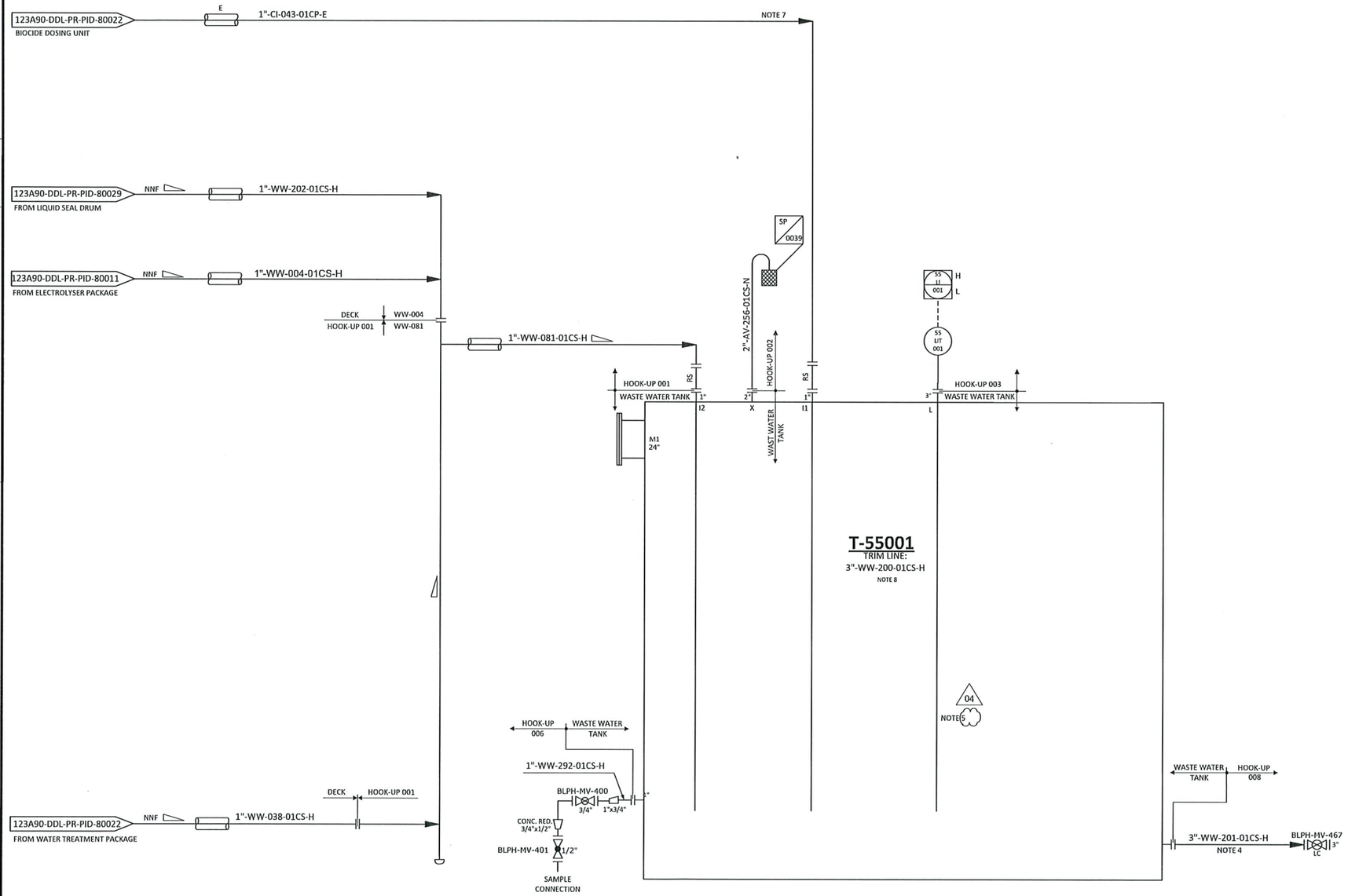
DRAWING NO. DRAWING_NO.

REV. REV

T-55001

WASTE WATER TANK

CAPACITY : 16 m³
DESIGN P/T : 0.005 barg / 80°C
MATERIAL : CARBON STEEL



NOTES

1. DELETED.
2. DELETED.
3. DELETED.
4. DRAIN LINE TO SHIP DISPOSAL.
5. PERFORATED STILLING TUBE.
6. DELETED.
7. FOR PERIODIC DOSING OF THE WASTE WATER TANK.
8. FOR DESCRIPTION AND SPECIFICATION OF VESSEL NOZZLE, REFERENCE SHALL BE MADE TO THE TECHNICAL DATA SHEET FOR WASTE WATER TANK - T-55001, DOC. N. "123A90-DDL-MAC-DS-50008"

HOLDS

1. DELETED.
2. DELETED.
3. DELETED.
4. DELETED.
5. DELETED.

As commissioning
16-09-2025
Giandonato De Missier

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	16/04/2025	CIM	RZI	CGI	ACCEPTED FOR CONSTRUCTION (AFC)
03	09/09/2024	CIM	RZI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/06/2024	CIM	RZI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	15/02/2024	CIM	RZI	DLO	ISSUE FOR ACCEPTANCE (IFA)
00	20/10/2023	CIM	RZI	DLO	ISSUE FOR ACCEPTANCE (IFA)

CROSSWIND

ROSETTI MARINO

TITLE :
BLPH PIPING AND INSTRUMENTATION DIAGRAM
WATER DISPOSAL SHEET 2

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE NTS

DRAWN | CHECKED | APPROVED | DATE

A1 | DRAWING NO. 123A90-DDL-PR-PID-80026 | SHEET 001 | REV. 04

File Name : FILE_NAME

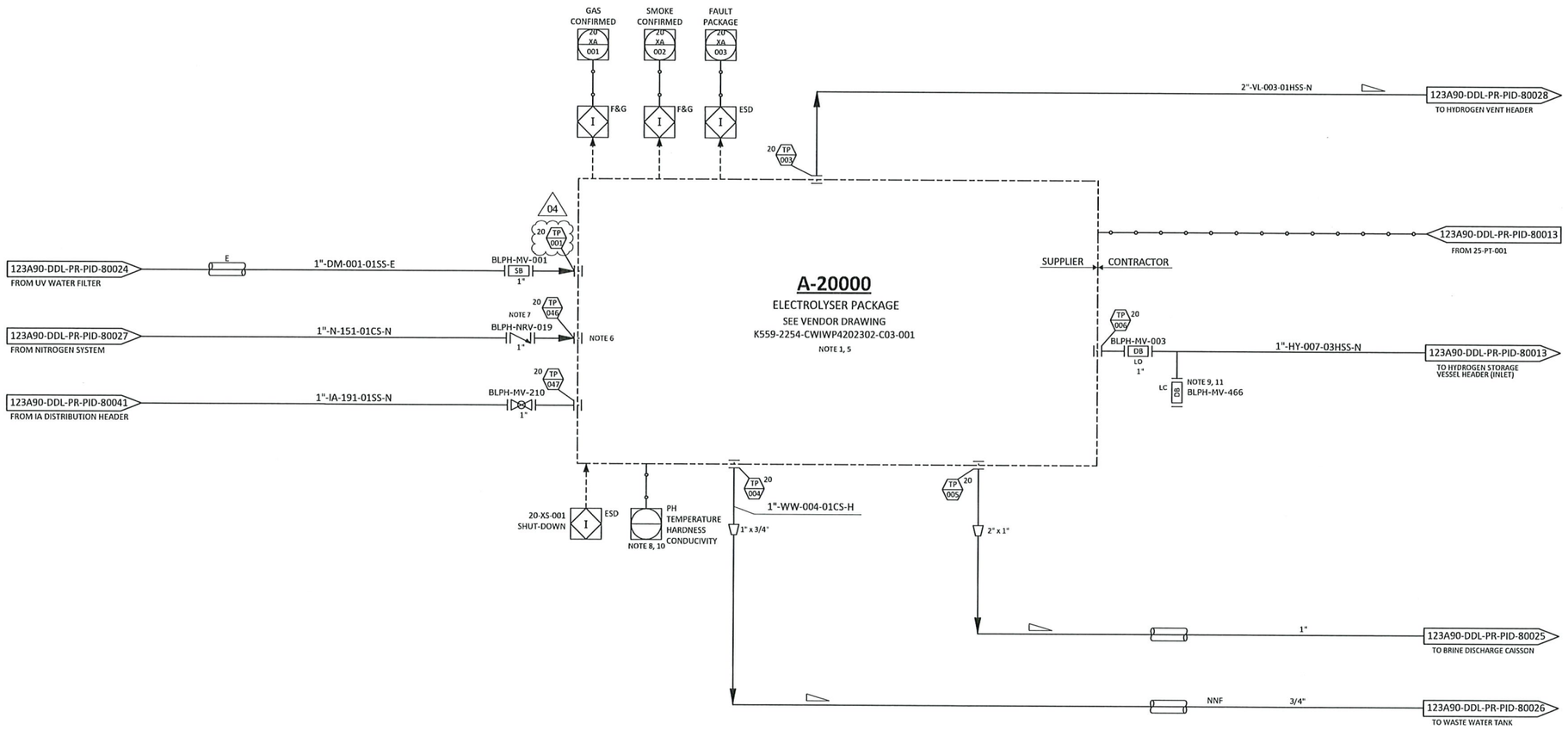
DRAWING NO. DRAWING_NO.

REV. REV

A-20000

ELECTROLYSER PACKAGE

DUTY: 2.5MW
DESIGN PRESSURE: 40 barg
DESIGN TEMPERATURE: 80 °C
H2 GENERATING CAPACITY: 500 Nm³/h



NOTES

1. PACKAGE SUPPLIED WITH POWER FROM THE BLPH ELECTRICAL SYSTEM.
2. DELETED.
3. DELETED.
4. DELETED.
5. ELECTROLYSER PACKAGE INCLUDES AN OXYGEN VENT LINE WHICH IS IN THE SCOPE OF SUPPLY OF THE ELECTROLYSER PACKAGE UP TO THE ATMOSPHERE. NO PHYSICAL INTERFACE IS PRESENT BETWEEN ELECTROLYSER PACKAGE AND CONTRACTOR ON THIS LINE.
6. AN ISOLATION VALVE DOWNSTREAM THE CHECK VALVE NRV-019 IS PROVIDED WITHIN THE PACKAGE A-20000.
7. CHECK VALVE NRV-019 TO BE INSTALLED AS CLOSE AS POSSIBLE TO THE ELECTROLYSER PACKAGE A-20000.
8. SERIAL COMMUNICATION WITH CONTROL SYSTEM.
9. NITROGEN PURGING CONNECTION TO BE LOCATED AS CLOSE AS POSSIBLE TO MANUAL VALVE BLPH-MV-003.
10. PH, TEMPERATURE, HARDNESS AND CONDUCTIVITY SHALL BE SENT FROM CONTROL SYSTEM TO ELECTROLISER UCP IN ADDITION TO THE OTHER SOFTWARE SIGNALS.
11. MANUAL VALVE BLPH-MV-466 TO BE CONNECTED WITH MANUAL VALVE BLPH-MV-275 (INSTALLED ON NITROGEN GENERATION PACKAGE EXIT LINE) BY MEAN ON A FLEXIBLE HOSE DURING COMMISSIONING PHASE FOR PURGING OPERATION.

HOLDS

As Commissioning
02-04-2025
Giandonato De Missier

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	16/04/2025	CIM	RZI	CGI	ACCEPTED FOR CONSTRUCTION (AFC)
03	09/09/2024	CIM	RZI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/06/2024	CIM	RZI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	15/02/2024	CIM	RZI	DLO	ISSUE FOR ACCEPTANCE (IFA)
00	20/10/2023	CIM	RZI	DLO	ISSUE FOR ACCEPTANCE (IFA)

CROSSWIND

ROSETTI MARINO

TITLE :
BLPH PIPING AND INSTRUMENTATION DIAGRAM
ELECTROLYSER PACKAGE

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE	NTS
DRAWN	CHECKED	APPROVED	DATE	
A1	DRAWING NO. 123A90-DDL-PR-PID-80011		SHEET 001	REV. 04

File Name : FILE_NAME

DRAWING NO. DRAWING_NO.

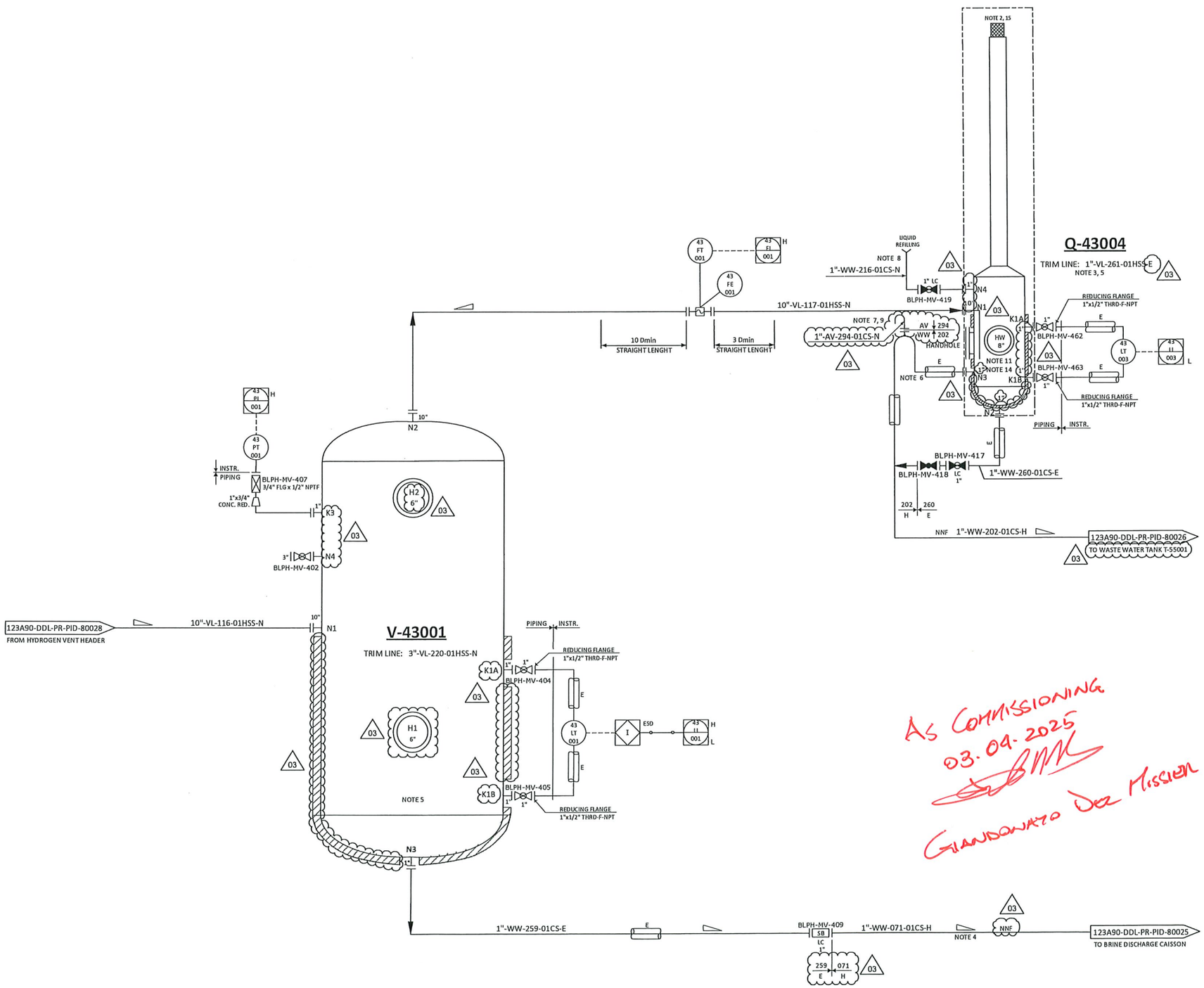
REV. REV

V-43001

HYDROGEN VENT KO DRUM
SIZE : 600 mm (ID) x 2350 mm (H)
DESIGN P/T : 3.5 barg / -10 / 80°C
MATERIAL : LTCS + 1 mm CA

Q-43004

HYDROGEN VENT NOTE 1
SIZE : 254 mm (ID)
DESIGN P/T : 3.5 barg / -10 / 80°C
MATERIAL : LTCS + 3 mm CA



NOTES

1. VENT TO SAFE LOCATION SEGREGATED FROM OTHER VENTS.
2. VENT TO BE EQUIPPED WITH BIRD SCREEN.
3. LIQUID SEAL DRUM IS PART OF THE VENT SYSTEM.
4. LIQUID DRAIN LINES TO BE ROUTED TO ENSURE GRAVITY DRAIN.
5. HYDROGEN VENT KO DRUM AND LIQUID SEAL DRUM TO BE HEAT TRACING.
   - V-43001 HEAT TRACED FROM B.T.L. UP TO 600 mm, BOTTOM HEAD ALSO TO BE HEAT TRACED.
6. SEAL LEG WILL BE DETERMINATED ON THE MAXIMUM BACK PRESSURE IN THE VENT.
7. SEAL VENT TO BE PLACED INTO A SAFE POSITION.
8. FILLING LINE TO BE PLACED IN AN ACCESSIBLE POSITION.
9. TRACED FROM NOZZLE N3 UP TO SWAN NECK.
10. DELETED.
11. INLET DIP LEG SUBMERSION HEIGHT OF 0.6 m.
12. DELETED.
13. FOR DESCRIPTION AND SPECIFICATION OF VESSEL NOZZLE, REFERENCE SHALL BE MADE TO THE TECHNICAL DATA SHEET FOR H2 VENT KOD.
14. LIQUID INSIDE SEAL DRUM IS A WATER - GLYCOL MIXTURE WITH 50% VOLUME OF GLYCOL. (03)
15. TOP OF TIP OF H2 VENT SHALL BE AT AS MINIMUM 6.2 m FROM HIGHEST REACHABLE PLATFORM.

HOLDS

1. DELETED.
2. DELETED.
3. DELETED.

As Commissioning
03.09.2025
Giandonato Dal Missier

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	09/09/2024	CIM	RZI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/06/2024	CIM	RZI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	15/02/2024	CIM	RZI	DLO	ISSUE FOR ACCEPTANCE (IFA)
00	20/10/2023	CIM	RZI	DLO	ISSUE FOR ACCEPTANCE (IFA)

CROSSWIND

ROSETTI MARINO

TITLE :
BLPH PIPING AND INSTRUMENTATION DIAGRAM
HYDROGEN VENT DRUM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE NTS
DRAWN	CHECKED	APPROVED	DATE
A1	DRAWING NO. 123A90-DDL-PR-PID-80029		SHEET 001 / REV. 03

File Name : FILE_NAME

Section 3 CONSOLIDATED PUNCH LISTS

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	55	Waste Water
SUBSYSTEM	55-00	Waste Water Disposal

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002058	B	55-00-TP-061 C10003681	Spool has not been installed in erection. Inspection points from 3 to 6 of ITR "Inspection before test" to be checked during reinstatement.	.		KAlbonetti 2024-12-19	2025-04-07	LNovaga 2025-04-07	2025-04-07
C30002336	B	55-00-TP-004 C10003255	SK.027 (SH.1/1): PS-01056.1 and PS-01056.2, positions R1 and R2 have not been installed and the position F1 has not been drilled.	.		KAlbonetti 2025-01-03	2025-02-19	KAlbonetti 2025-02-19	2025-02-19
C30003116	B	55-00-TP-026 C10003428	SK.003 (SH.1/2): The earthing plate has been placed oriented toward South instead of West. Engineering dpt. accepted it via e-mail, but the	.		KAlbonetti 2025-01-21	2025-04-02	LNovaga 2025-04-02	2025-04-02
C30003118	B	55-00-TP-026 C10003428	PS-02138.2 not installed. Position R2 is missing and the UPN80 has not been drilled yet.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003119	B	55-00-TP-026 C10003428	PS-02091.1 has not been assembled.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003120	B	55-00-TP-026 C10003428	PS-02092.1 has not been assembled.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003123	B	55-00-TP-026 C10003428	Inspection point n.4 not checked because the line is not aligned due preparation for pressure test.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003124	B	55-00-TP-026 C10003428	SP-02014.1: position is 220 mm from W15 of SK.100 instead of 162 mm as marked in the isometric.	.		KAlbonetti 2025-01-21	2025-04-02	LNovaga 2025-04-02	2025-04-02
C30003127	B	55-00-TP-026 C10003428	PS-02043.1 and PS-02042.1 shoes are not touching on the structure. Distance of 10 mm.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 55 Waste Water
SUBSYSTEM 55-00 Waste Water Disposal

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003129	B	55-00-TP-026 C10003428	PS-02044.1 and PS-02045.1' shoes are not touching on the structure. Distance of 10 mm.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003131	B	55-00-TP-026 C10003428	PS-02120.1 and PS-02119.1' shoes do not touch on the structures. Distance of 5 mm.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003133	B	55-00-TP-026 C10003428	PS-01001.2: position R3 not installed and structural part not drilled yet.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003134	B	55-00-TP-026 C10003428	PS-02124.3: position R2 is missing.	.		KAlbonetti 2025-01-21	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003197	B	55-00-TP-062 C10003686	All piping supports of type "C-16", "S-211" and "S-212" have not been assembled as for specification. They shall all be checked during	.		KAlbonetti 2025-01-25	2025-02-17	LNovaga 2025-02-17	2025-02-17
C30003198	B	55-00-TP-060 C10003673	All piping supports type "S-64" and "C-33" have not been installed as for specification. The structural part is ok. They shall be checked during	.		MBruschi 2025-01-25	2025-04-07	LNovaga 2025-04-07	2025-04-07
C30003199	B	55-00-TP-060 C10003673	Spools belonging to the TP not installed in erection. Cehck performed on ground with no equipmente installed before test. Inspection	.		MBruschi 2025-01-25	2025-04-07	LNovaga 2025-04-07	2025-04-07
C30003277	B	55-00-TP-026 C10003429	SK.068 (SH.1/2): Suppost PS-02120.2 has not been assembled.	.		KAlbonetti 2025-01-29	2025-02-26	LNovaga 2025-02-26	2025-02-26
C30003914	B	55-00-TP-005 C10003263	PS-01035.1 and PS-01035.2 not installed.	.		KAlbonetti 2025-02-17	2025-03-04	LNovaga 2025-03-04	2025-03-04

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 55 Waste Water
SUBSYSTEM 55-00 Waste Water Disposal

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003916	B	55-00-TP-005 C10003263	Horizontal section between J1 and position n.2 has been shortened to 290 mm to go correctly into the penetration at +23310.	.		KAlbonetti 2025-02-17	2025-04-02	LNovaga 2025-04-02	2025-04-02
C30004008	B	55-00-TP-004 C10003256	The support PS-01056.1is not aligned and does not fully touch the structural support that has a misalignment as in photo.	.		LNovaga 2025-02-19	2025-02-25	KAlbonetti 2025-02-25	2025-02-25
C30004133	B	55-00-TP-062 C10003688	Color coding and fluid direction are missing.	.		KAlbonetti 2025-02-25	2025-03-24	LNovaga 2025-03-24	2025-03-24
C30004134	B	55-00-TP-062 C10003688	At 700 down from the PS-03080 there is a point where touch-up is necessary but not possible until the scaffold hasn't been removed.	.		KAlbonetti 2025-02-25	2025-04-07	LNovaga 2025-04-07	2025-04-07
C30004192	B	55-00-TP-005 C10003264	Support PS-PS-01035.1 is S-64 – 1” – 300 – 200 instead S-64 – 1” – 100 – 200	.	Changes have been recorded on RLMUs	LNovaga 2025-03-04	RDegliEsposti 2025-06-25	RDegliEsposti 2025-06-25	2025-06-25
C30004292	B	55-00-TP-005 C10003265	The joint and the overlap of the sheets are not sealed.	.		LNovaga 2025-03-27	2025-04-04	LNovaga 2025-04-04	2025-04-04
C30004293	B	55-00-TP-005 C10003265	Missing the insulation pillow around the joint 028-1-J1.	.		LNovaga 2025-03-27	2025-04-04	LNovaga 2025-04-04	2025-04-04
C30004294	B	55-00-TP-005 C10003265	The part near the penetration is not insulated because there are water hoses for comm activities. See attached photo.	.	Insulation installed.	LNovaga 2025-03-27	RDegliEsposti 2025-07-22	RDegliEsposti 2025-07-22	2025-07-22
C30004302	B	55-00-TP-026 C10003430	Missing the insulation pillows around jonts 003-1-J1, 003-1-J2 and 100-1-J1.	.		LNovaga 2025-04-02	2025-04-04	LNovaga 2025-04-04	2025-04-04

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	55	Waste Water
SUBSYSTEM	55-00	Waste Water Disposal

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004318	B	55-00-TP-004 C10003257	Missing the insulation pillow around the joint 027-1-J1.	.		LNovaga 2025-04-03	2025-04-04	LNovaga 2025-04-04	2025-04-04
C30004319	B	55-00-TP-004 C10003257	Color coding and fluid direction are missing.	.	Colour code and fluid direction flow added.	LNovaga 2025-04-03	RDegliEsposti 2025-07-07	RDegliEsposti 2025-07-07	2025-07-07
C30004320	B	55-00-TP-060 C10003674	The PS-01054.1 (S-64) stand measures 140 mm x 200 mm instead of 100 mm x 200 mm, and the structural stand (UPN100) is 550 mm long instead	.	Changes have been recorded on RLMUs	LNovaga 2025-04-07	RDegliEsposti 2025-06-25	RDegliEsposti 2025-06-25	2025-06-25
C30004390	B	55-00-TP-060 C10003675	Color coding and fluid direction are missing.	.	Colour coding and fluid flow direction have been marked.	LNovaga 2025-06-03	RDegliEsposti 2025-07-08	RDegliEsposti 2025-07-08	2025-07-08
C30004391	B	55-00-TP-061 C10003683	Color coding and fluid direction are missing.	.	Colour coding and fluid flow direction have been marked.	LNovaga 2025-06-03	RDegliEsposti 2025-07-08	RDegliEsposti 2025-07-08	2025-07-08

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004133

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003688	1.4 Discipline	Piping
1.2 Item	55-00-TP-062	Test Pack 55-00-TP-062	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

Color coding and fluid direction are missing.

Name: Kangi Albonetti

Date: 2025-02-25

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-02-25
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-03-24

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-03-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-03-24

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004134

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003688	1.4 Discipline	Piping
1.2 Item	55-00-TP-062	Test Pack 55-00-TP-062	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

At 700 down from the PS-03080 there is a point where touch-up is necessary but not possible until the scaffold hasn't been removed.

Name: Kangi Albonetti

Date: 2025-02-25

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-02-25
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-04-07

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-04-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-04-07

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004192

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003264	1.4 Discipline	Piping
1.2 Item	55-00-TP-005	Test Pack 55-00-TP-005	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

Support PS-PS-01035.1 is S-64 – 1” – 300 – 200 instead S-64 – 1” – 100 – 200

Name: Lorenzo Novaga
Date: 2025-03-04
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Lorenzo Novaga
3.4 Activity code	MC Mechanical Completion	Date	2025-03-04
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Changes have been recorded on RLMUs

Name: Raffaele Degli Esposti
Date: 2025-06-25
Signature:

5 - CLEARANCE CHECK

Ref. to RLMU 123A90-DDL-PP-DD-72000-PS-01035_01_01A

Name: Raffaele Degli Esposti
Date: 2025-06-25
Signature:

6- CLEARANCE APPROVAL

Name:
Date: 2025-06-25
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004292

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003265	1.4 Discipline	Piping
1.2 Item	55-00-TP-005	Test Pack 55-00-TP-005	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

The joint and the overlap of the sheets are not sealed.

Name: Lorenzo Novaga

Date: 2025-03-27

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Lorenzo Novaga
3.4 Activity code	MC Mechanical Completion	Date	2025-03-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-04-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004293

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003265	1.4 Discipline	Piping
1.2 Item	55-00-TP-005	Test Pack 55-00-TP-005	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

Missing the insulation pillow around the joint 028-1-J1.

Name: Lorenzo Novaga

Date: 2025-03-27

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Lorenzo Novaga
3.4 Activity code	MC Mechanical Completion	Date	2025-03-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Lorenzo Novaga

Date: 2025-04-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004294

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003265	1.4 Discipline	Piping
1.2 Item	55-00-TP-005	Test Pack 55-00-TP-005	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

The part near the penetration is not insulated because there are water hoses for comm activities.
See attached photo.

Name: Lorenzo Novaga
Date: 2025-03-27
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Lorenzo Novaga
3.4 Activity code	MC Mechanical Completion	Date	2025-03-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Insulation installed.

Name: Raffaele Degli Esposti
Date: 2025-07-22
Signature:

5 - CLEARANCE CHECK

Added two L-profiles.

Name: Raffaele Degli Esposti
Date: 2025-07-22
Signature:

6- CLEARANCE APPROVAL

Name:
Date: 2025-07-24
Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004302

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003430	1.4 Discipline	Piping
1.2 Item	55-00-TP-026	Test Pack 55-00-TP-026	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

Missing the insulation pillows around jonts 003-1-J1, 003-1-J2 and 100-1-J1.

Name: Lorenzo Novaga

Date: 2025-04-02

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Lorenzo Novaga
3.4 Activity code	MC Mechanical Completion	Date	2025-04-02
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Lorenzo Novaga

Date: 2025-04-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004318

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003257	1.4 Discipline	Piping
1.2 Item	55-00-TP-004	Test Pack 55-00-TP-004	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

Missing the insulation pillow around the joint 027-1-J1.

Name: Lorenzo Novaga

Date: 2025-04-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Lorenzo Novaga
3.4 Activity code	MC Mechanical Completion	Date	2025-04-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Lorenzo Novaga

Date: 2025-04-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004319

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003257	1.4 Discipline	Piping
1.2 Item	55-00-TP-004	Test Pack 55-00-TP-004	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

Color coding and fluid direction are missing.

Name: Lorenzo Novaga
Date: 2025-04-03
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Lorenzo Novaga
3.4 Activity code	MC Mechanical Completion	Date	2025-04-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Colour code and fluid direction flow added.

Name: Raffaele Degli Esposti
Date: 2025-07-07
Signature:

5 - CLEARANCE CHECK

Added two L-profiles.

Name: Raffaele Degli Esposti
Date: 2025-07-07
Signature:

6- CLEARANCE APPROVAL

Name:
Date: 2025-07-08
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004320

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003674	1.4 Discipline	Piping
1.2 Item	55-00-TP-060	Test Pack 55-00-TP-060	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

The PS-01054.1 (S-64) stand measures 140 mm x 200 mm instead of 100 mm x 200 mm, and the structural stand (UPN100) is 550 mm long instead of 358. Produce an RLMU on the support list.

Name: Lorenzo Novaga
Date: 2025-04-07
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Lorenzo Novaga
3.4 Activity code	MC Mechanical Completion	Date	2025-04-07
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Changes have been recorded on RLMUs

Name: Raffaele Degli Esposti
Date: 2025-06-25
Signature:

5 - CLEARANCE CHECK

Ref. to RLMU 123A90-DDL-PP-DD-72000-PS-01054_01_01A

Name: Raffaele Degli Esposti
Date: 2025-06-25
Signature:

6- CLEARANCE APPROVAL

Name:
Date: 2025-06-25
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004390

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003675	1.4 Discipline	Piping
1.2 Item	55-00-TP-060	Test Pack 55-00-TP-060	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

Color coding and fluid direction are missing.

Name: Lorenzo Novaga

Date: 2025-06-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Lorenzo Novaga
3.4 Activity code	MC Mechanical Completion	Date	2025-06-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Colour coding and fluid flow direction have been marked.

Name: Raffaele Degli Esposti

Date: 2025-07-08

Signature:

5 - CLEARANCE CHECK

Added two L-profiles.

Name: Raffaele Degli Esposti

Date: 2025-07-08

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-07-08

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004391

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003683	1.4 Discipline	Piping
1.2 Item	55-00-TP-061	Test Pack 55-00-TP-061	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

Color coding and fluid direction are missing.

Name: Lorenzo Novaga

Date: 2025-06-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Lorenzo Novaga
3.4 Activity code	MC Mechanical Completion	Date	2025-06-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Colour coding and fluid flow direction have been marked.

Name: Raffaele Degli Esposti

Date: 2025-07-08

Signature:

5 - CLEARANCE CHECK

Added two L-profiles.

Name: Raffaele Degli Esposti

Date: 2025-07-08

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-07-08

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003116

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003428	1.4 Discipline	Piping
1.2 Item	55-00-TP-026	Test Pack 55-00-TP-026	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

SK.003 (SH.1/2): The earthing plate has been placed oriented toward South instead of West. Engineering dpt. accepted it via e-mail, but the drawing shall be marked-up.

Name: Kangi Albonetti

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Document marked-up.

Name: Lorenzo Novaga

Date: 2025-04-02

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003118

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003428	1.4 Discipline	Piping
1.2 Item	55-00-TP-026	Test Pack 55-00-TP-026	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

PS-02138.2 not installed. Position R2 is missing and the UPN80 has not been drilled yet.

Name: Kangi Albonetti

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003119

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003428	1.4 Discipline	Piping
1.2 Item	55-00-TP-026	Test Pack 55-00-TP-026	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

PS-02091.1 has not been assembled.

Name: Kangi Albonetti

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003120

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003428	1.4 Discipline	Piping
1.2 Item	55-00-TP-026	Test Pack 55-00-TP-026	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

PS-02092.1 has not been assembled.

Name: Kangi Albonetti

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003123

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003428	1.4 Discipline	Piping
1.2 Item	55-00-TP-026	Test Pack 55-00-TP-026	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

Inspection point n.4 not checked because the line is not aligned due preparation for pressure test.

Name: Kangi Albonetti

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003124

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003428	1.4 Discipline	Piping
1.2 Item	55-00-TP-026	Test Pack 55-00-TP-026	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

SP-02014.1: position is 220 mm from W15 of SK.100 instead of 162 mm as marked in the isometric.

Name: Kangi Albonetti

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Document marked-up.

Name: Lorenzo Novaga

Date: 2025-04-02

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003127

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003428	1.4 Discipline	Piping
1.2 Item	55-00-TP-026	Test Pack 55-00-TP-026	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

PS-02043.1 and PS-02042.1 shoes are not touching on the structure. Distance of 5 mm.

Name: Kangi Albonetti

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003129

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003428	1.4 Discipline	Piping
1.2 Item	55-00-TP-026	Test Pack 55-00-TP-026	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

PS-02044.1 and PS-02045.1' shoes are not touching on the structure. Distance of 10 mm.

Name: Kangi Albonetti

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003131

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003428	1.4 Discipline	Piping
1.2 Item	55-00-TP-026	Test Pack 55-00-TP-026	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

PS-02120.1 and PS-02119.1' shoes do not touch on the structures. Distance of 5 mm.

Name: Kangi Albonetti

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003133

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003428	1.4 Discipline	Piping
1.2 Item	55-00-TP-026	Test Pack 55-00-TP-026	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

PS-01001.4: position R3 not installed and structural part not drilled yet.

Name: Kangi Albonetti

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003134

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003428	1.4 Discipline	Piping
1.2 Item	55-00-TP-026	Test Pack 55-00-TP-026	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

PS-02124.3: position R2 is missing.

Name: Kangi Albonetti

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003197

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003686	1.4 Discipline	Piping
1.2 Item	55-00-TP-062	Test Pack 55-00-TP-062	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

All piping supports of type "C-16", "S-211" and "S-212" have not been assembled as for specification. They shall all be checked during reinstatement.

Name: Kangi Albonetti

Date: 2025-01-25

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-01-25
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-02-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003198

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003673	1.4 Discipline	Piping
1.2 Item	55-00-TP-060	Test Pack 55-00-TP-060	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

All piping supports type "S-64" and "C-33" have not been installed as for specification. The structural part is ok. They shall be checked during reinstatement.

Name: Massimo Bruschi
Date: 2025-01-25
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Massimo Bruschi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-25
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date: 2025-04-07
Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga
Date: 2025-04-07
Signature:

6- CLEARANCE APPROVAL

Name:
Date: 2025-04-07
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003199

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003673	1.4 Discipline	Piping
1.2 Item	55-00-TP-060	Test Pack 55-00-TP-060	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

Spools belonging to the TP not installed in erection. Cehck performed on ground with no equipmente installed before test. Inspection points 4 to 7 to be checked during flange management after test.

Name: Massimo Bruschi
Date: 2025-01-25
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Massimo Bruschi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-25
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date: 2025-04-07
Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga
Date: 2025-04-07
Signature:

6- CLEARANCE APPROVAL

Name:
Date: 2025-04-07
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003277

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003429	1.4 Discipline	Piping
1.2 Item	55-00-TP-026	Test Pack 55-00-TP-026	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

SK.068 (SH.1/2): Suppost PS-02120.2 has not been assembled.

Name: Kangi Albonetti

Date: 2025-01-29

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-01-29
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003914

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003263	1.4 Discipline	Piping
1.2 Item	55-00-TP-005	Test Pack 55-00-TP-005	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

PS-01035.1 and PS-01035.2 not installed.

Name: Kangi Albonetti

Date: 2025-02-17

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-02-17
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Lorenzo Novaga

Date: 2025-03-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003916

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003263	1.4 Discipline	Piping
1.2 Item	55-00-TP-005	Test Pack 55-00-TP-005	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

Horizontal section between J1 and position n.2 has been shortened to 290 mm to go correctly into the penetration at +23310.

Name: Kangi Albonetti

Date: 2025-02-17

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-02-17
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Document marked-up.

Name: Lorenzo Novaga

Date: 2025-04-02

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004008

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003256	1.4 Discipline	Piping
1.2 Item	55-00-TP-004	Test Pack 55-00-TP-004	
1.3 Subsystem	55-00	Waste Water Disposal	

2 - OBSERVATION

The support PS-01056.1is not aligned and does not fully touch the structural support that has a misalignment as in photo.

Name: Lorenzo Novaga

Date: 2025-02-19

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Lorenzo Novaga
3.4 Activity code	MC Mechanical Completion	Date	2025-02-19
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Added two L-profiles.

Name: Kangi Albonetti

Date: 2025-02-25

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


027_A
TP-004 / Priority 3
1"-WW-038-01CS-H
55-00

STANLEY
0-42-130

Section 4 FUNCTIONAL TESTS SHEETS

Section 4.1 Electrical functional test sheets index

NOT APPLICABLE

Section 4.2 Electrical
“As-Commissioned” interconnection diagrams

NOT APPLICABLE

Section 4.3 Instrumentation functional test sheets index

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 55-00 & discipline : I

Instrumental	55-00 Waste Water Disposal						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
55-LIT-001	Radar Level Transmitter - Vessel T-55001 Level	ONSHORE	C10003230	FJ01A	100	2025-04-02	RFO 1

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	55-LIT-001	: Radar Level Transmitter - Vessel T-55001 Level		Dwg	123A90-DDL-IN-DS-40039	
	S/Sys	55-00	: Waste Water Disposal		Module	LD	
TASK	code	C10003230	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	PRE-COMM	Activity FTS	Discipline Instrumental	Form	FJ01A	Analog Loop

LOOP DATA

Loop TAG	55-LIT-001			TSLD	123A90-FDL-IN-DG-40014 rev.1_A				
IO Type	Input	Yes	Output	No	Energy by transmitter	No	Energy by system	Yes	
Marshalling	B400-PCS-001	Terminal	10A/10B	Slot	01	Rack	03	Chanel	10

LOOP TEST

1	Check earth isolation of the loop					OK
2	Connect loop to terminal					OK
3	Confirm Process Scale	Unit	mm	Min	0	Max 4660

LOOP RANGE			0%	25%	50%	75%	100%
4	Physical value applied for test	Unit mA	4	8	12	16	20
5	Control System Display	Unit mm	0	1165	2330	3495	4660

LOOP SERVICE

		Value	Trip	Gen Alarm	DCS Alarm	SOE	DCS display	
6	Threshold 1	No		Yes		OK	OK
7	Threshold 2	NA	NA	NA	NA	NA	NA
8	Threshold 3	NA	NA	NA	NA	NA	NA
9	Threshold 4	NA	NA	NA	NA	NA	NA
10	Checking of line monitoring	No	No	No	No	OK	OK
11	Checking of Maintenance Inhibition	NA	NA	NA	NA	NA	NA
12	Associated safety Level / bar						
13	Associated outputs						

TESTING & MEASUREMENT INSTRUMENT USED

Type	Serial N.	Calibration Certificate	Validity
HART COMMUNICATOR MERIAM	1948000038		

LOOP DOCUMENTATION

14	Loop diagram is marked up and attached to this test sheet	OK
15	Cause and effect chart is highlighted accordingly	
16	Any defect is recorded for punch list issuance	

Comments:

Page 1/1	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	RM COMM	COMM	CW
Name	Laurentiu Grozavu	Giandonato Delmissier	David Musgrove
Date	2025-03-27	2025-03-27	2025-04-02
Signature	PROVERLIS Digitaly signed by Laurentiu Grozavu 2025-03-27T13:24:30.700Z	PROVERLIS Digitaly signed by Giandonato Delmissier 2025-03-27T17:08:26.044Z	PROVERLIS Digitaly signed by David Musgrove 2025-04-02T08:16:08.012Z

ABR SERVICE S.r.l.
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C.F. Part. IVA 02764420390

Plant	CROSSWIND	Description	WASTE WATER TANK T-55001		
Area	T-55001	Loop Tag	55-LI-001	Instrument Tag	55-LT-001
Type of verification	periodic	Calibration range	0,00 ÷ 4660,00 mm	Report N°	031
Type of instrument	Level meter radar	Max uncertainty required	± 0,25 % s.r.	Reference procedure data sheet	123A90-PML-QHSE-PRO-00122 Page N°15

UNDER EXAMINATION INSTRUMENT 'S DATA

Tag	Manufacture	Model	S/N
55-LT-001	TOKYO KEIKI	KRG-10-AD03PV-AA	105429

USED REFERENCE SAMPLE 'S DATA

Manufacture	Model	S/N	n° of certification and calibration center	uncertainty (u.m.)	Date of issue
BEAMEX	MC5-IS	20177766	0144/ME/2024 _LAT 150	± 0,001 c.s.	24/04/2024

environment temperature at the time of check 25 °C

Value indicated before starting the check N.P. mm

CHECK RESULT: *as found*

Verification functionality loop check

Generated value	Expected value	Read value	Error	Error % on s.r.
mm	mA	mA	mA	
100,00	4,340	4,342	+0,002	+0,012
1165,00	8,000	8,006	+0,006	+0,038
2330,00	12,000	11,994	-0,006	-0,038
3495,00	16,000	16,002	+0,002	+0,012
4660,00	20,000	19,993	-0,007	-0,044
3495,00	16,000	16,001	+0,001	+0,006
2330,00	12,000	11,994	-0,006	-0,038
1165,00	8,000	8,005	+0,005	+0,031
100,00	4,340	4,343	+0,003	+0,019
		max error detected %		0,044

Check: PASSED

Verification activation of blocks/threshold alarms

Alarm signalling	Type of activation	Alarm Intervention	Block description	Action type	Block Intervention
mm					

Blocks/alarms check:

Corrective action

CHECK RESULT: *as left*

Verification functionality loop check

Generated value	Expected value	Read value	Error	Error % on s.r.
mm	mA	mA	mA	
		errore massimo rilevato %		0,00

Check:

Verification activation of blocks/threshold alarms

Alarm signalling	Type of activation	Alarm Intervention	Block description	Action type	Block Intervention
mm	DESCENT				

Blocks/alarms check:

Value indicated after the check N.P. mm

Note:

FINAL OUTCOME OF THE VERIFICATION: *The instrument is SUITABLE*

Verification Date	Verification Expiration	Technical Executor	Viewed	Approved by
20/09/2024	09/2025	PENSO SILVIO		
		signature	*signature*	*signature*

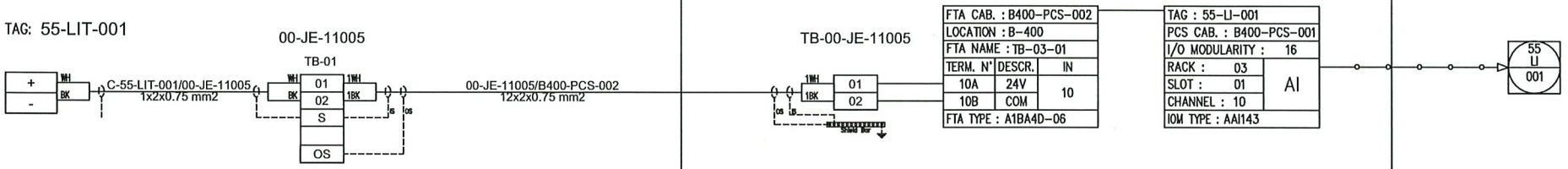
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Tel. 0544 685411
C.F. e P.IVA 02764420390

GENERAL	1	Tag Number					55-LIT-001				
	2	Service					WASTE WATER TANK (T-55001)				
	3	P&ID Number					123A90-DDL-PR-PID-80026				
	4	Equipment Number		Vessel Trim Number			T-55001		1"-WW-200-01CS-H		
	5	Area Classification					ATEX Zone2 - IIC (IIB+H2) T1				
PROCESS CONDITIONS	6	Fluid					WASTE WATER				
	7	Pressure	Unit	Min.	Oper.	Max.	barg		ATM		
	8	Temperature	Unit	Min.	Oper.	Max.	°C	5	AMB	35	
	9	Ambient Temperature		Min.		Max.	-8.4		25		
	10	Design Pressure		Min.		Max.			ATM		
	11	Design Temperature		Min.		Max.			80		
	12	Density (Liquid)					1000				
	13	Oper. Vapour Density					N/A				
	14	Viscosity					1				
	15	Fluid Dielectric Constant					80.2 @20°C				
BODY / GAUGE	16	Body or Gauge Material					AISI 316				
	17	Rating					#150				
	18	Connection Size & Type					FLANGED 3" 150# RF1, TOP MOUNTED				
	19	Cooling Extension					-				
	20	Stilling Well Required					-				
ANTENNA	21	Type					NON CONTACTING RADAR				
	22	Material					SS 316				
	23	Insertion Depth		Diameter			31 mm		72 mm		
	24	Operating Frequency					26 GHz				
	25	Distance (Adapter Plate to Tank Bottom)					High of Tank = 4660 mm				
TRANSMITTER	26	Function					LEVEL MEASUREMENT				
	27	Output		Power Supply			4-20mA		24 Vdc (Loop powered)		
	28	Calibration Range Min.		Max.			0 mm		4660 mm		
	29	Nominal Range Min.		Max.			0 mm		5000 mm		
	30	Mounting					DIRECT ON LINE				
	31	Certification		Ingress Protection			Ex-d IIC (IIB+H2) T1		IP66		
	32	Electrical Class		Electrical Connection			-		2 x M20		
	33	Accuracy		Repeatability			Better then +/-0.5% of SPAN		≤ 0.25% of SPAN		
COMMUNICATION AND SOFTWARE	34	Communication Type		Signal Type			Conventional + Hart		4-20mA Loop powered		
	35	DD Revision		CFF Revision			-		-		
	36	Device Tag		Hart Tag			-		-		
	37	Internal Diagnostics		Capacitance			-		-		
	38	Segment		Device Address			-		-		
	39	Device Class		Simulate			-		-		
	40	Nominal Current		Operating Voltage			-		-		
OPTIONS	41	Interface Card					-				
	42	Cable (Antenna to Transmitter)					-				
	43	Integral Meter					Digital LCD indicator				
PURCHASE	44	Manufacturer					TERRANOVA SRL				
	45	Model					KRG-E-P3-R01-N-L-D08-F79-N00-N-D-V-81-A-R2-Z6				
	46	Purchase Order Number					4718_OS				

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DRAWING NO. 123A90-DDL-IN-DG-40014 REV. 01

FIELD	ITER – B400	CENTRAL CONTROL ROOM
	PROCESS CONTROL SYSTEM	OPERATOR CONSOLE



NO MARK UP
Longhan
21/03/25

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/12/2024	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	23/10/2024	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-IN-DG-40014
REV: 1_A | DATE: 20/12/24 | SIGNATURE: C.Pilato
ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE : INSTRUMENT LOOP DIAGRAM
55-LI-001
VESSEL T-55001 LEVEL

CONTRACT NO./TITLE CONTRACT_NO.			SCALE 1:1
DRAWN: VBA	CHECKED: LCA	APPROVED: DLO	DATE 23/10/2024
A3	DRAWING NO. 123A90-DDL-IN-DG-40014	SHEET 017	REV. 01

File Name : 123A90-DDL-IN-DG-40014_REV.01

Section 4.4 Instrumentation “As-Commissioned” interconnection diagrams

NOT APPLICABLE

Section 4.5 Telecommunication functional test sheets index

NOT APPLICABLE

Section 4.6 Telecommunication
“As-Commissioned” I.C.D. / TSLD's

NOT APPLICABLE

Section 5 SITE / OPERATIONAL

Section 5.1 Operational Test Procedure

NOT APPLICABLE

Section 5.2 Operational Test Certificates

NOT APPLICABLE

Section 6 PIPING AND VESSEL PREPARATION

Section 6.1 Final Mechanical / Vessel Inspection Checks Index

NOT APPLICABLE

Section 6.2 Leak Test / Drying / Inerting Test Sheets Index

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 55-00 & process: COMM

Piping	55-00 Waste Water Disposal						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
55-00	Service Test Waste Water Disposal System	OFFSHORE	C10004912	4245	0	-	-

Section 6.3 Chemical Loading & First Fill records Index

NOT APPLICABLE

Section 6.4 Chemical Cleaning Reports and Records Index

NOT APPLICABLE

Section 6.5 Lubrication Schedule

NOT APPLICABLE

Section 7 VENDOR

Section 7.1 Vendor Package Summary Index

NOT APPLICABLE

Section 7.2 SAT Procedure with associated punch list and reference (Front Page)

NOT APPLICABLE

Section 7.3 Vendor Spares & Special Tools lists references

NOT APPLICABLE

Section 7.4 Vendor Data / Operations / Maintenance Manuals References

NOT APPLICABLE

Section 8 LIST OF MODIFICATIONS

NOT APPLICABLE

Section 8.1 List of changes

NOT APPLICABLE

Section 9 SUPPORTING DOCUMENTS

NOT APPLICABLE