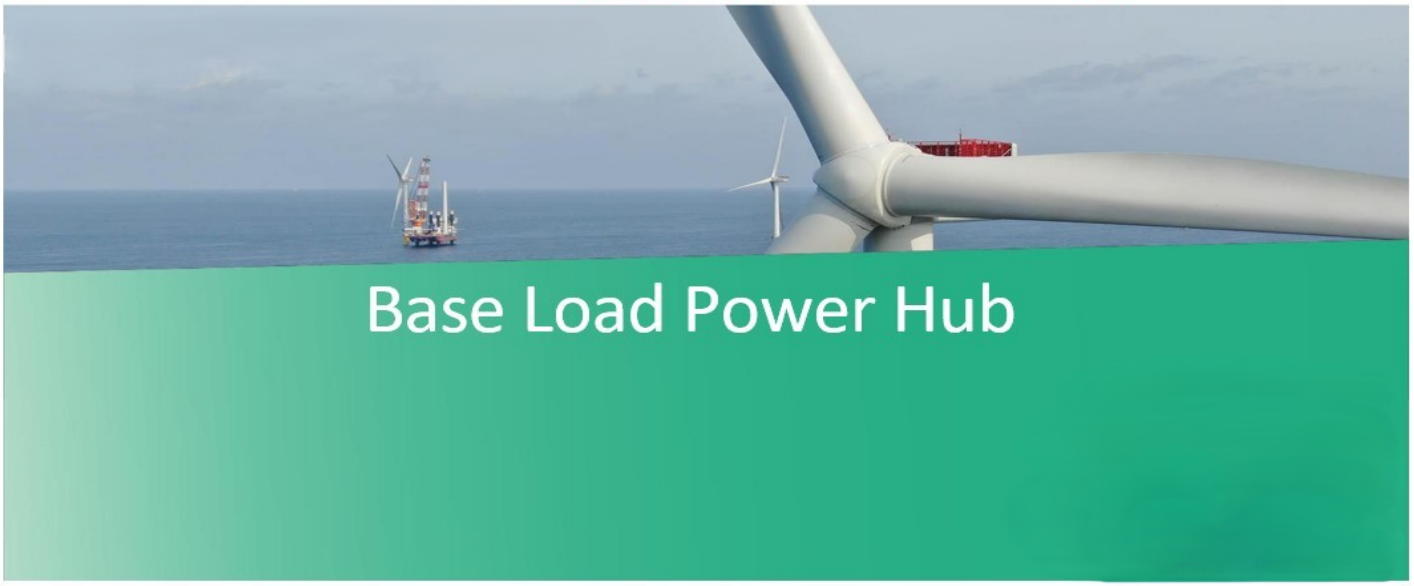
CROSSWIND

ROSETTI MARINO

PROVERUS

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



COMMISSIONING DOSSIER (ONSHORE)

SYSTEM	64 Nitrogen System
SUBSYSTEM	64-10 Nitrogen Distribution Network

CROSSWIND

123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

COMMISSIONING DOSSIER INDEX

ROSETTI MARINO

Sub System N°:	64-10	**Tick as appropriate**	ONSHORE	OK
Description:	Nitrogen Distribution Network		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	Martin Taylor
Date	2025-04-28	2025-04-28
Signature	PROVERLIS Digitaly signed by Anthony Iveson 2025-04-28T13:08:24.448Z	PROVERLIS Digitaly signed by Martin Taylor 2025-04-28T15:40:57.117Z

Section 1 SUB-SYSTEM DEFINITION

DRAWING NO. DRAWING_NO.

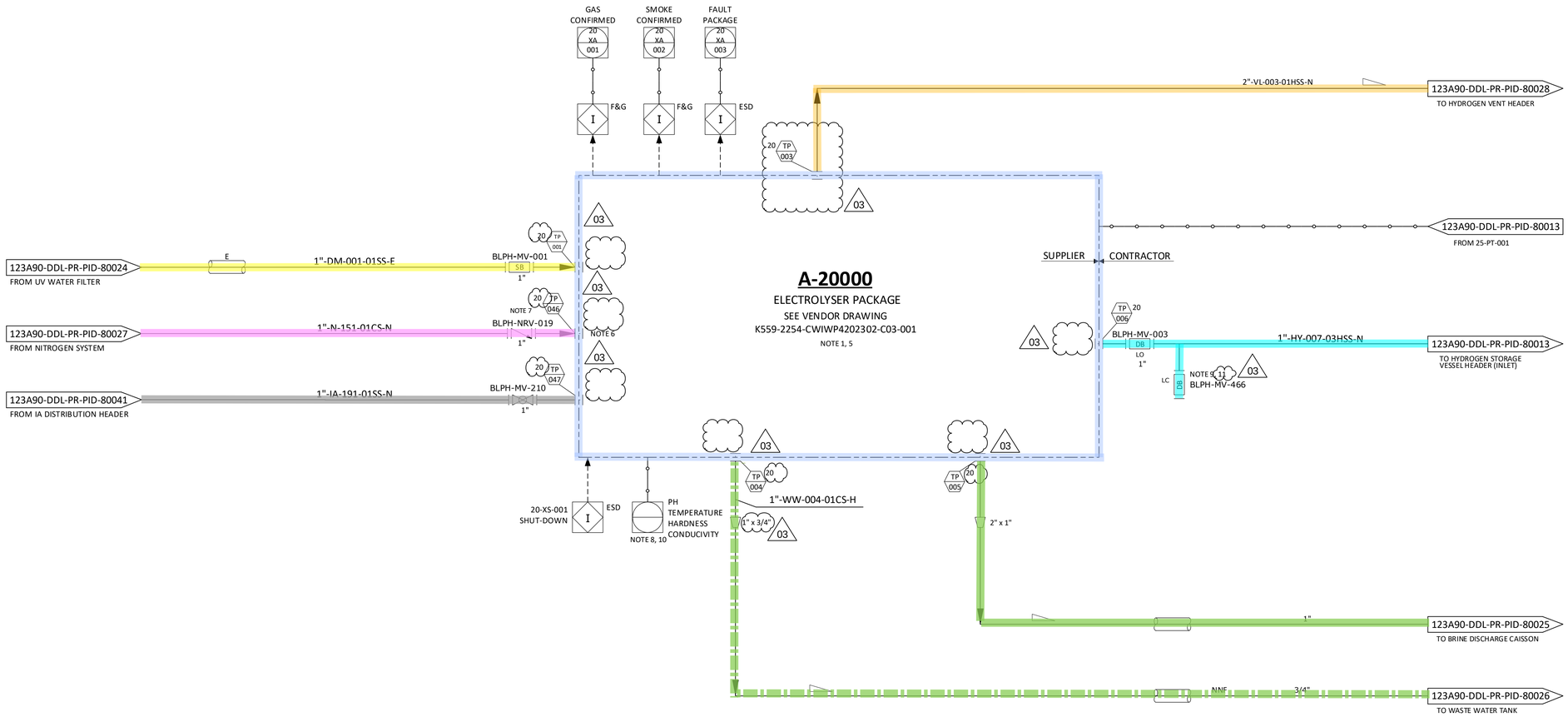
REV. REV

Instrument Air Distribution Network	SS 63-30
Watwr Desalination $ Distribution System	SS 50-10
Hydrogen Storage Vessel Header (Intel)	SS 43-00
Nitrogen Distribution Network	SS 64-10
Waste Water Brine Discharge System	SS 55-01
Waste Water Disposal Sustem	SS 55-00
Hydrogen 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. 03
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

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
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. 03

File Name : FILE_NAME

DRAWING NO. DRAWING_NO.

REV. REV

A-63000
INSTRUMENT AIR AND DRYER PACKAGE
CAPACITY : 313 Sm3/h (PRODUCTION)

A-64000
NITROGEN GENERATION SYSTEM
CAPACITY : 52.7 Sm3/h (PRODUCTION)

Waste Water Brine Discharge System SS 55-01
Instrument Air Distrubution Network SS 63-30
Instrument Air Package SS 63-00
Nitrogen Distribution Network SS 64-10
Nitrogen Generator Package SS 64-00

SUCTION 63 PI 001 | DISCHARGE 63 PI 002 | COMMON ALARM 63 XA 001 | MCC DEVICE COMMS FAIL 63 XI 001 | AVAILABLE STATUS 63 XI 002 | RUN/STOP STATUS 63 XI 003 | SHUTDOWN STATUS 63 XI 004 | SHUTDOWN ALARM 63 XA 002 | ESD I

FAULT PACKAGE 63 XA 003

ESD I 63-XS-001 SHUT-DOWN

NOTE 14

A-63000
INSTRUMENT AIR AND DRYER PACKAGE
SEE VENDOR DIAGRAM
NOTE 2, 3, 4, 5, 6

1-1/2"-IA-263-01SS-N

V-63001
AIR RECEIVER

63 PI 004 LL | ESD I
63 PI 003 L
63 PT 003 | 63 PT 004
INSTR. PIPING
BLPH-MV-150 3/4" FLG x 1/2" NPTF
BLPH-MV-151 3/4" FLG x 1/2" NPTF

TP 041 | LO BLPH-MV-149
1-1/2"-IA-108-01SS-N
123A90-DDL-PR-PID-80041 TO INSTRUMENT AIR DISTRIBUTION HEADER

TP 039 | BLPH-MV-269 SB LO
1"-WW-079-01CS-H
123A90-DDL-PR-PID-80025 TO BRINE DISCHARGE CAISSON

BLPH-MV-270 LO 1.1/2"
1-1/2"-IA-204-01SS-N

TO SAFE LOCATION
2"-AV-224-01CS-N
TP 043 | TP 045

NOTE 15
64 PI 002 L LL
64 HS 031
64 PIC 031A H L | 64 PIC 031B H L
64 PT 031A | 64 PT 031B | 64 PT 002
NOTE 1, 12 SET @ 30 barg
102 64 PSV 001
NOTE 10 TO ATM
2"-AV-160-01CS-N

INSTR. PIPING
64 PV 031A
BLPH-MV-386 3/4" FLG x 1/2" NPTF
BLPH-MV-166 3/4" FLG x 1/2" NPTF
BLPH-MV-167 3/4" FLG x 1/2" NPTF
BLPH-MV-278 FB-LO 1.1/2"
1.5" x 1" | 1-1/2"-N-197-01CS-N | 1.5" x 1"

TP 042 | BLPH-MV-271 SB LO | 3/4" BLPH-MV-275
1"-N-158-01CS-N
FL-DC TYP.6 1"
1"-N-100-01CS-N

1"-N-101-01CS-N
123A90-DDL-PR-PID-80028 TO HYDROGEN VENT HEADER
1"-N-125-03HSS-N
123A90-DDL-PR-PID-80017 TO HYDROGEN STORAGE VESSEL C
1"-N-124-03HSS-N
123A90-DDL-PR-PID-80016 TO HYDROGEN STORAGE VESSEL B
1"-N-028-03HSS-N
123A90-DDL-PR-PID-80015 TO HYDROGEN STORAGE VESSEL A
1"-N-257-03HSS-N
UPPER LEVEL
LOWER LEVEL
1"-N-126-03HSS-N
123A90-DDL-PR-PID-80018 TO HYDROGEN STORAGE VESSEL D
1"-N-127-03HSS-N
123A90-DDL-PR-PID-80019 TO HYDROGEN STORAGE VESSEL E
1"-N-128-03HSS-N
123A90-DDL-PR-PID-80020 TO HYDROGEN STORAGE VESSEL F
1"-N-151-01CS-N
123A90-DDL-PR-PID-80011 TO ELECTROLYSER PACKAGE
64 SDV 001 | 64 SDV 001 | NOTE 13 | NC FC TYP.2
01CS | 03HSS

A-64000
NITROGEN SYSTEM
SEE VENDOR DIAGRAM

ESD I | 64-XS-001 SHUT-DOWN ESD I | NOTE 14
64 XA 003 FAULT PACKAGE

1"-N-262-01CS-N

V-64001
NITROGEN RECEIVER
N-158 | N-100

NOTES

1. ONE UNINSTALLED SPARE PSV SHALL BE AVAILABLE.
2. COMPRESSORS AND DRIERS DESIGNED FOR 2 X 100% CONFIGURATION. INSTRUMENT AIR RECEIVER DESIGNED FOR 1 X 100%.
3. VENDOR TO PROVIDE NECESSARY CONTROLS, INSTRUMENTATIONS AND ISOLATIONS IN ORDER TO OPERATE THE PLANT IN SAFE MANNER.
4. COMPRESSORS WILL OPERATE ON THE BASIS OF ONE WORKING AND ONE ON STANDBY.
5. COMPRESSORS TO BE ROTARY SCREW TYPE OIL FREE.
6. AIR COMPRESSOR INLET TO BE LOCATED AWAY FROM ANY VENTS.
7. DELETED. 02
8. DELETED.
9. DELETED.
10. TO SAFE LOCATION, ROUTED AWAY FROM WALKWAYS.
11. DELETED. 02
12. 64PSV001 SIZED FOR UPSTREAM CV FAILURE.
13. 64SDV001 IS NORMALLY CLOSED. IF REQUIRED THE OPERATOR CAN REMOTELY OPEN THE VALVE TO ALLOW PURGING OPERATION. VALVE 64SDV001 IS ALSO CONNECTED TO THE PCS SYSTEM.
14. SERIAL COMMUNICATION WITH CONTROL SYSTEM.
15. THE ALARM 64-PAL-002 WILL CLOSE 64-SDV-001 THROUGH SAFETY SYSTEM.

02

HOLDS

1. DELETED.
2. DELETED. 02
3. DELETED.
4. 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
INSTRUMENT AIR 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-80027		SHEET 001	REV. 02

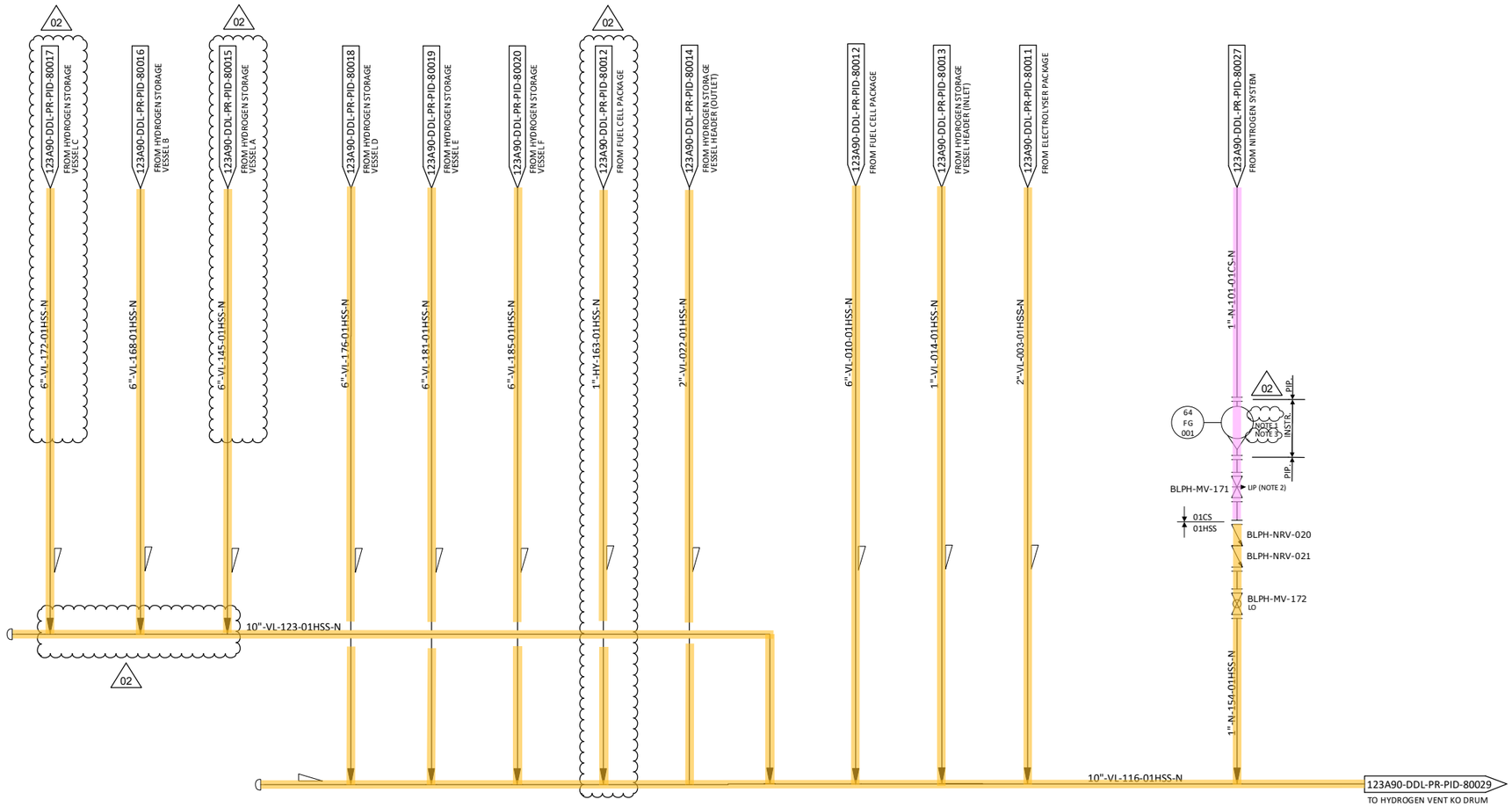
File Name : FILE_NAME

DRAWING_NO.

REV.

Nitrogen Distrubution Network SS 64-10

Hydrogen Vent Header & Drum System SS 43-00



NOTES

1. FLOW METER 64-FG-001 SHALL BE READABLE FROM MANUAL VALVE MV-171.
2. VALVE BLPH-MV-171 TO BE LOCKED IN PLACE.
3. VERTICAL INSTALLATION. 02

HOLDS

1. DELETED.
2. DELETED. 02

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 HEADER

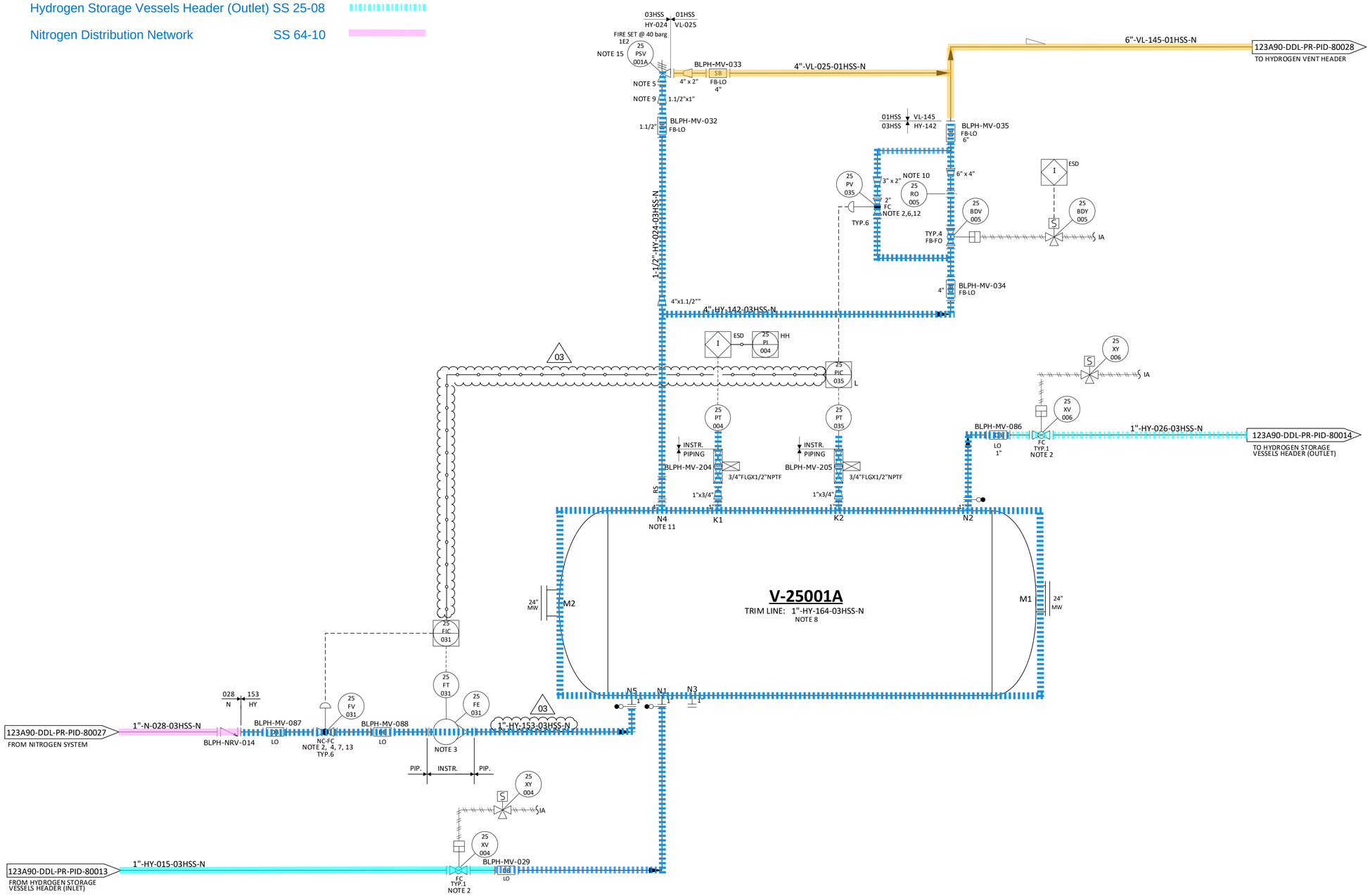
CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE NTS
DRAWN	CHECKED	APPROVED	DATE
A1	DRAWING NO. 123A90-DDL-PR-PID-80028	SHEET 001	REV. 02

File Name : FILE_NAME

DRAWING_NO. DRAWING_NO.

REV. REV

Hydrogen Storage Vessel A (V-25001A)	SS 25-01	
Hydrogen Vent Header & Drum System	SS 43-00	
Hydrogen Storage Vessels Header (inlet)	SS 25-07	
Hydrogen Storage Vessels Header (Outlet)	SS 25-08	
Nitrogen Distribution Network	SS 64-10	



NOTES

1. DELETED.
2. TIGHT SHUT OFF VALVE.
3. VARIABLE AREA FLOWMETER TO BE INSTALLED VERTICALLY WITH DIRECTION OF FLOW UPWARDS.
4. NITROGEN CONTROL VALVE (25-FV-031) CAN NOT OPEN UNTIL THE PRESSURE WITHIN THE VESSEL IS BELOW THE NITROGEN SUPPLY PRESSURE. 03
5. ONE COMMON UNINSTALLED SPARE PSV FOR ALL VESSELS.
6. FOR PULSE PRESSURE PURGING OF VESSEL WITH HYDROGEN.
7. FOR FLOW PURGING OF VESSEL WITH NITROGEN.
8. FOR DESCRIPTION AND SPECIFICATION OF VESSEL NOZZLE, REFERENCE SHALL BE MADE TO THE TECHNICAL DATA SHEET FOR H2 STORAGE, DOC. N. "123A90-DDL-MAC-DS-50027".
9. REDUCERS TO BE INSTALLED AS CLOSE TO PSV AS POSSIBLE.
10. FOR ORIFICE DIAMETER REFERENCE SHALL BE MADE TO "RELIEF, VENT AND BLOWDOWN REPORT "DOC. N. "123A90-DDL-PR-RE-80030".
11. NOZZLE N4 TO BE INSTALLED AT MINIMUM DISTANCE FROM TANGENT LINE OF THE VESSEL (ON THE OPPOSITE SIDE OF N5 NOZZLE).
12. SOFTWARE INTERLOCK TO PREVENT 25-PV-035 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION AND PROCESS START-UP CHARGING MODE (SEE DOC. "PROCESS CONTROL LOGICS DESCRIPTION" N. 123A90-DDL-IN-RE-40095). CONTROL VALVE 25-PV-035 IS USED ONLY IN CASE OF VESSEL PURGING OR PROCESS START-UP CHARGING MODES. 03
13. SOFTWARE INTERLOCK TO PREVENT 25-FV-031 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION.
14. A TIMER ALARM ON THE H2 PRESSURIZATION SECTION OF THE PURGE CYCLE IN THE CONTROL LOGIC IS PROVIDED TO DETERMINE IF THE PURGE VALVE 25-PV-035 HAS FAILED TO CLOSE.
15. 25-PSV-001A SIZED FOR FIRE.

HOLDS

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

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 STORAGE VESSEL A

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-80015	SHEET 001	REV. 03

File Name : FILE_NAME

DRAWING NO. DRAWING_NO.

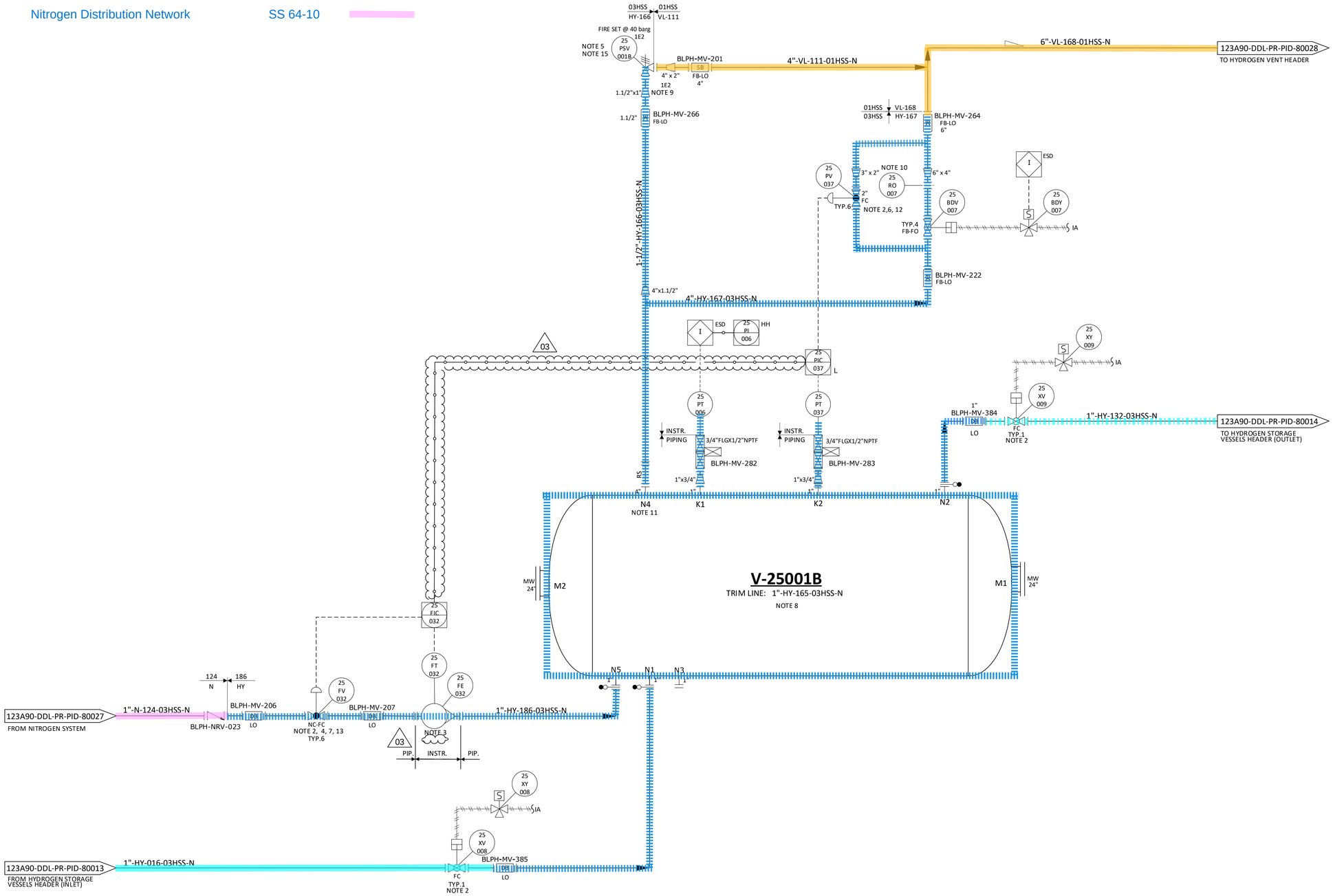
REV. REV

Hydrogen Storage Vessel B (V-25001B)	SS 25-02
Hydrogen Vent Header & Drum System	SS 43-00
Hydrogen Storage Vessels Header (inlet)	SS 25-07
Hydrogen Storage Vessels Header (Outlet)	SS 25-08
Nitrogen Distribution Network	SS 64-10

V-25001 B

HYDROGEN STORAGE VESSEL

SIZE : 2800 mm (ID) X 15500 mm (L T/T)
DESIGN P/T : 40 barg / -10 / 80 °C
MATERIAL : CARBON STEEL
OPERATING P/T : 30 barg / AMB



NOTES

1. DELETED.
2. TIGHT SHUT OFF VALVE.
3. VARIABLE AREA FLOWMETER TO BE INSTALLED VERTICALLY WITH DIRECTION OF FLOW UPWARDS.
4. NITROGEN CONTROL VALVE (25-FV-032) CAN NOT OPEN UNTIL THE PRESSURE WITHIN THE VESSEL IS BELOW THE NITROGEN SUPPLY PRESSURE. 03
5. ONE COMMON UNINSTALLED SPARE PSV FOR ALL VESSELS.
6. FOR PULSE PRESSURE PURGING OF VESSEL WITH HYDROGEN.
7. FOR FLOW PURGING OF VESSEL WITH NITROGEN.
8. FOR DESCRIPTION AND SPECIFICATION OF VESSEL NOZZLE, REFERENCE SHALL BE MADE TO THE TECHNICAL DATA SHEET FOR H2 STORAGE, DOC. N. "123A90-DDL-MAC-DS-50027".
9. REDUCERS TO BE INSTALLED AS CLOSE TO PSV AS POSSIBLE.
10. FOR ORIFICE DIAMETER REFERENCE SHALL BE MADE TO "RELIEF, VENT AND BLOWDOWN REPORT "DOC. N. "123A90-DDL-PR-RE-80030".
11. NOZZLE N4 TO BE INSTALLED AT MINIMUM DISTANCE FROM TANGENT LINE OF THE VESSEL (ON THE OPPOSITE SIDE OF N5 NOZZLE).
12. SOFTWARE INTERLOCK TO PREVENT 25-PV-037 BEING OPENED OUTSIDE OR A PURGE CYCLE OPERATION AND PROCESS START-UP CHARGING MODE (SEE DOC."PROCESS CONTROL LOGICS DESCRIPTION" N. 123A90-DDL-IN-RE-40095). CONTROL VALVE 25-PV-037 IS USED ONLY IN CASE OF VESSEL PURGING OR PROCESS START-UP CHARGING MODES. 03
13. SOFTWARE INTERLOCK TO PREVENT 25-FV-032 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION.
14. A TIMER ALARM ON THE H2 PRESSURIZATION SECTION OF THE PURGE CYCLE IN THE CONTROL LOGIC IS PROVIDED TO DETERMINE IF THE PURGE VALVE 25-PV-037 HAS FAILED TO CLOSE.
15. 25-PSV-001B SIZED FOR FIRE.

HOLDS

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

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 STORAGE VESSEL B

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-80016		SHEET 001 / REV. 03

File Name : FILE_NAME

DRAWING NO. DRAWING_NO.

REV. REV

Hydrogen Storage Vessel C (V-25001C) SS 25-03

Hydrogen Vent Header & Drum System SS 43-00

Hydrogen Storage Vessels Header (inlet) SS 25-07

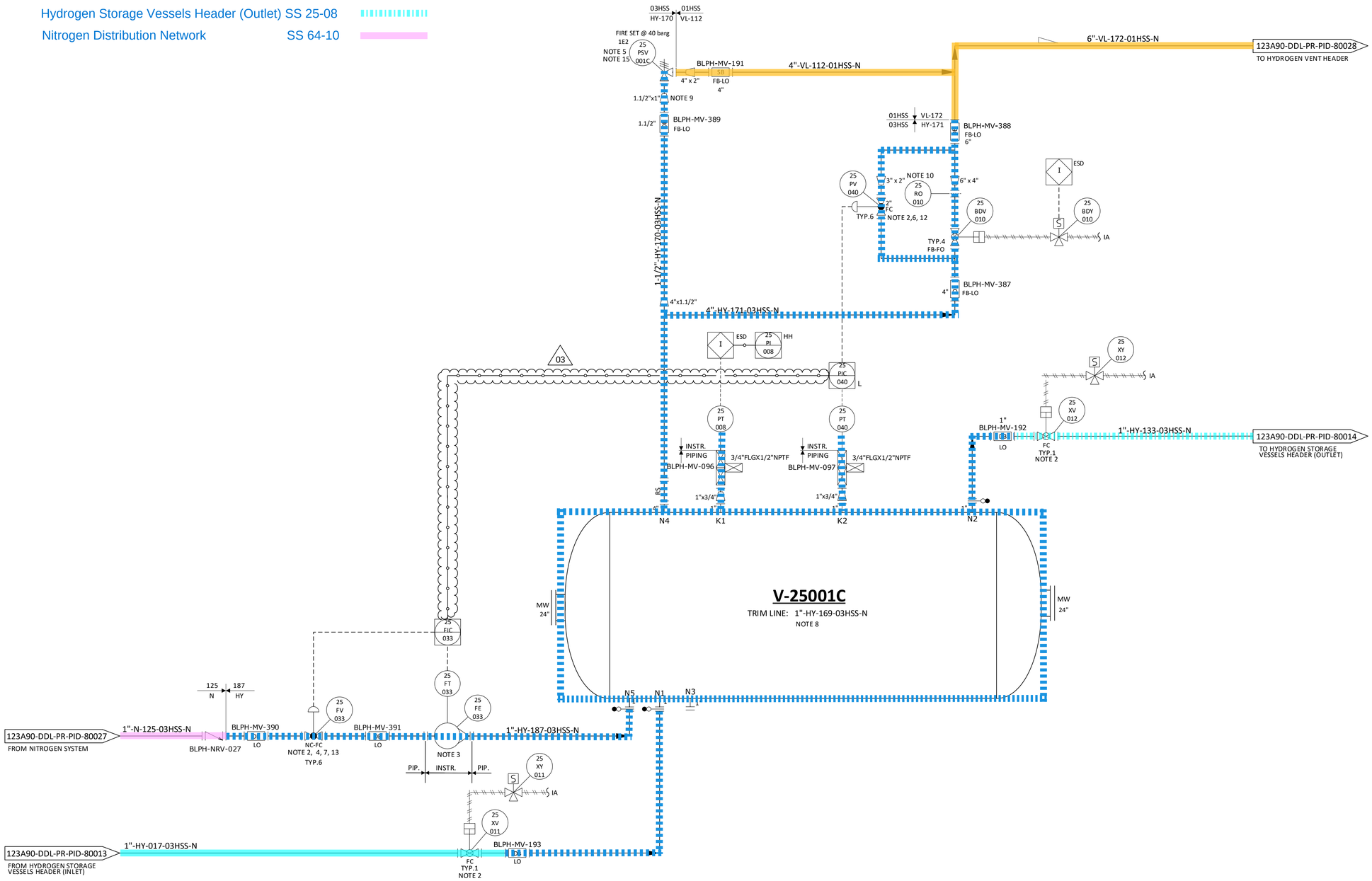
Hydrogen Storage Vessels Header (Outlet) SS 25-08

Nitrogen Distribution Network SS 64-10

V-25001 C

HYDROGEN STORAGE VESSEL

SIZE : 2800 mm (ID) X 15500 mm (L T/T)
DESIGN P/T : 40 barg / -10 / 80 °C
MATERIAL : CARBON STEEL
OPERATING P/T : 30 barg / AMB



NOTES

1. DELETED.
2. TIGHT SHUT OFF VALVE.
3. VARIABLE AREA FLOWMETER TO BE INSTALLED VERTICALLY WITH DIRECTION OF FLOW UPWARDS.
4. NITROGEN CONTROL VALVE (25-FV-033) CAN NOT OPEN UNTIL THE PRESSURE WITHIN THE VESSEL IS BELOW THE NITROGEN SUPPLY PRESSURE. 03
5. ONE COMMON UNINSTALLED SPARE PSV FOR ALL VESSELS.
6. FOR PULSE PRESSURE PURGING OF VESSEL WITH HYDROGEN.
7. FOR FLOW PURGING OF VESSEL WITH NITROGEN.
8. FOR DESCRIPTION AND SPECIFICATION OF VESSEL NOZZLE, REFERENCE SHALL BE MADE TO THE TECHNICAL DATA SHEET FOR H2 STORAGE, DOC. N. "123A90-DDL-MAC-DS-50027".
9. REDUCERS TO BE INSTALLED AS CLOSE TO PSV AS POSSIBLE.
10. FOR ORIFICE DIAMETER REFERENCE SHALL BE MADE TO "RELIEF, VENT AND BLOWDOWN REPORT" DOC. N. "123A90-DDL-PR-RE-80030".
11. NOZZLE N4 TO BE INSTALLED AT MINIMUM DISTANCE FROM TANGENT LINE OF THE VESSEL (ON THE OPPOSITE SIDE OF N5 NOZZLE).
12. SOFTWARE INTERLOCK TO PREVENT 25-PV-040 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION AND PROCESS START-UP CHARGING MODE (SEE DOC. "PROCESS CONTROL LOGICS DESCRIPTION" N. 123A90-DDL-IN-RE-40095). CONTROL VALVE 25-PV-040 IS USED ONLY IN CASE OF VESSEL PURGING OR PROCESS START-UP CHARGING MODES. 03
13. SOFTWARE INTERLOCK TO PREVENT 25-FV-033 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION.
14. A TIMER ALARM ON THE H2 PRESSURIZATION SECTION OF THE PURGE CYCLE IN THE CONTROL LOGIC IS PROVIDED TO DETERMINE IF THE PURGE VALVE 25-PV-040 HAS FAILED TO CLOSE.
15. 25-PS-V001C SIZED FOR FIRE.

HOLDS

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

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 STORAGE VESSEL C

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-80017	SHEET 001	REV. 03

File Name : FILE_NAME

DRAWING NO. DRAWING_NO.

REV. REV

Hydrogen Storage Vessel D (V-25001D) SS 25-04

Hydrogen Vent Header & Drum System SS 43-00

Hydrogen Storage Vessels Header (inlet) SS 25-07

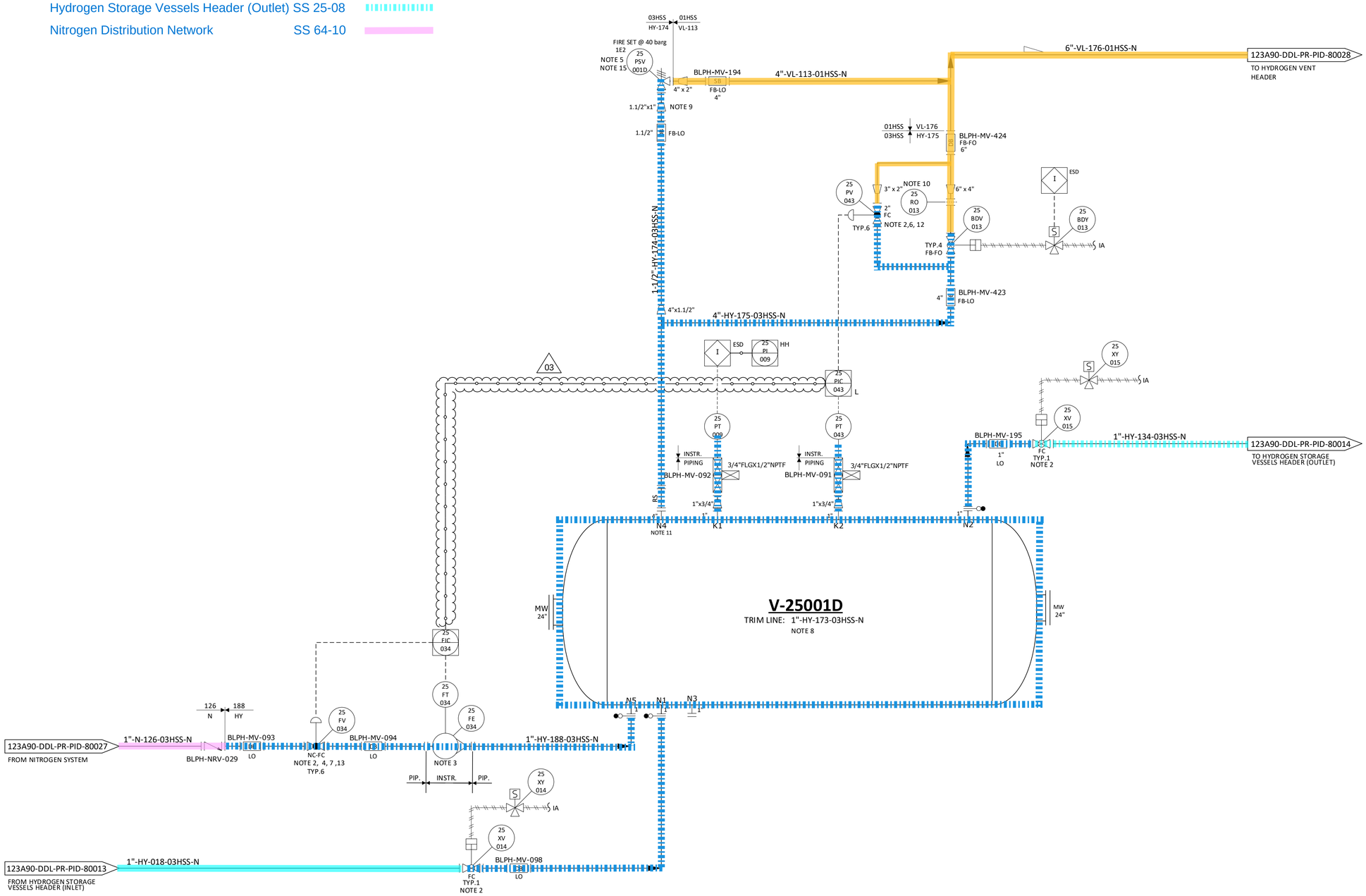
Hydrogen Storage Vessels Header (Outlet) SS 25-08

Nitrogen Distribution Network SS 64-10

V-25001_D

HYDROGEN STORAGE VESSEL

SIZE : 2800 mm (ID) X 15500 mm (L T/T)
DESIGN P/T : 40 barg / -10 / 80 °C
MATERIAL : CARBON STEEL
OPERATING P/T : 30 barg / AMB



NOTES

1. DELETED.
2. TIGHT SHUT OFF VALVE.
3. VARIABLE AREA FLOWMETER TO BE INSTALLED VERTICALLY WITH DIRECTION OF FLOW UPWARDS. 03
4. NITROGEN CONTROL VALVE (25-FV-034) CAN NOT OPEN UNTIL THE PRESSURE WITHIN THE VESSEL IS BELOW THE NITROGEN SUPPLY PRESSURE.
5. ONE COMMON UNINSTALLED SPARE PSV FOR ALL VESSELS.
6. FOR PULSE PRESSURE PURGING OF VESSEL WITH HYDROGEN.
7. FOR FLOW PURGING OF VESSEL WITH NITROGEN.
8. FOR DESCRIPTION AND SPECIFICATION OF VESSEL NOZZLE, REFERENCE SHALL BE MADE TO THE TECHNICAL DATA SHEET FOR H2 STORAGE, DOC. N. "123A90-DDL-MAC-DS-50027".
9. REDUCERS TO BE INSTALLED AS CLOSE TO PSV AS POSSIBLE.
10. FOR ORIFICE DIAMETER REFERENCE SHALL BE MADE TO "RELIEF, VENT AND BLOWDOWN REPORT" DOC. N. "123A90-DDL-PR-RE-80030".
11. NOZZLE N4 TO BE INSTALLED AT MINIMUM DISTANCE FROM TANGENT LINE OF THE VESSEL (ON THE OPPOSITE SIDE OF N5 NOZZLE).
12. SOFTWARE INTERLOCK TO PREVENT 25-PV-043 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION AND PROCESS START-UP CHARGING MODE (SEE DOC. "PROCESS CONTROL LOGICS DESCRIPTION" N. 123A90-DDL-IN-RE-40095). CONTROL VALVE 25-PV-043 IS USED ONLY IN CASE OF VESSEL PURGING OR PROCESS START-UP CHARGING MODES. 03
13. SOFTWARE INTERLOCK TO PREVENT 25-FV-034 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION.
14. A TIMER ALARM ON THE H2 PRESSURIZATION SECTION OF THE PURGE CYCLE IN THE CONTROL LOGIC IS PROVIDED TO DETERMINE IF THE PURGE VALVE 25-PV-043 HAS FAILED TO CLOSE.
15. 25-PSV-001D SIZED FOR FIRE.

HOLDS

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

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 STORAGE VESSEL D

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-80018	SHEET 001	REV. 03

File Name : FILE_NAME

DRAWING NO. DRAWING_NO.

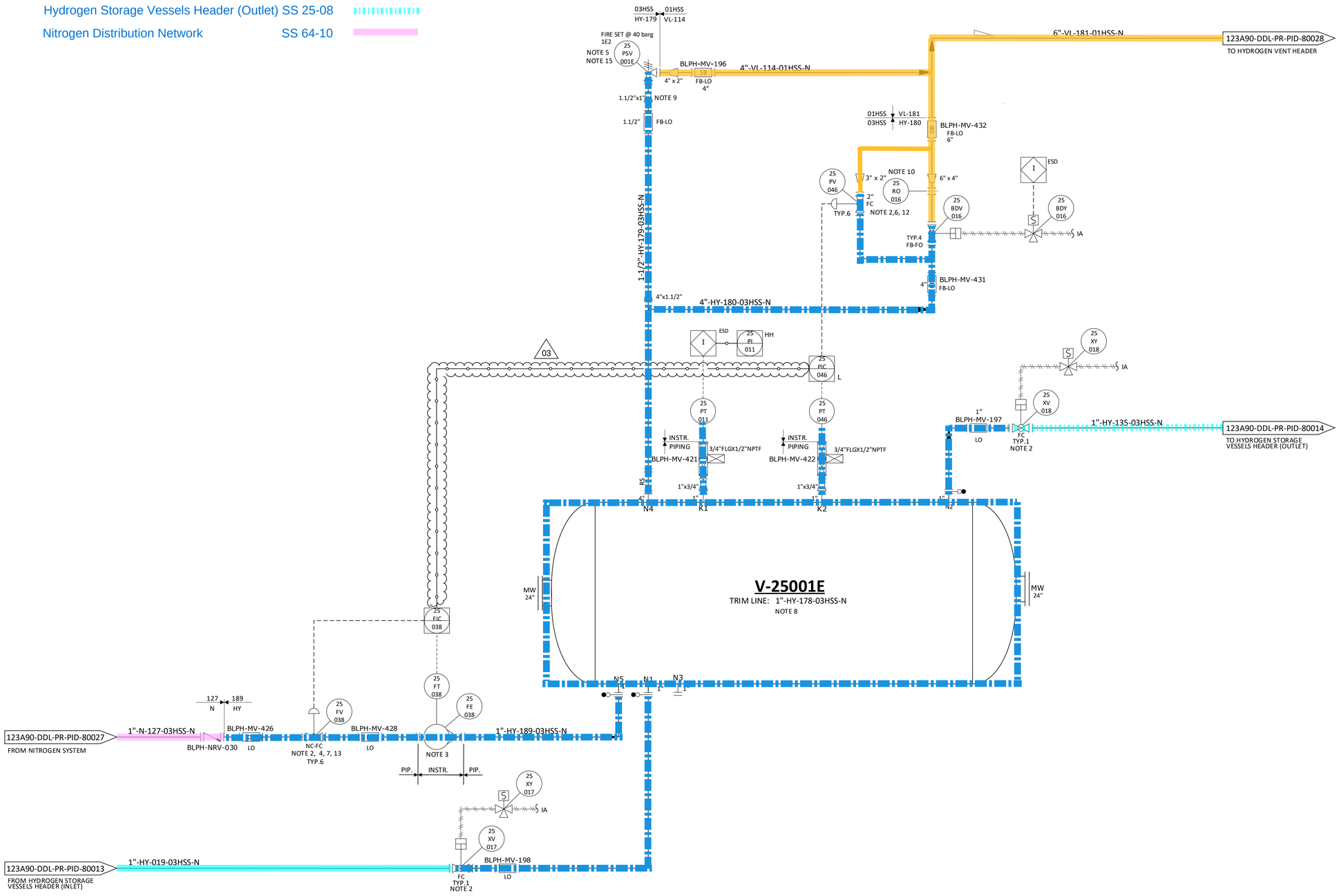
REV. REV

Hydrogen Storage Vessel E (V-25001E)	SS 25-05
Hydrogen Vent Header & Drum System	SS 43-00
Hydrogen Storage Vessels Header (inlet)	SS 25-07
Hydrogen Storage Vessels Header (Outlet)	SS 25-08
Nitrogen Distribution Network	SS 64-10

V-25001 E

HYDROGEN STORAGE VESSEL

SIZE : 2800 mm (ID) X 15500 mm (L T/T)
DESIGN P/T : 40 barg / -10 / 80 °C
MATERIAL : CARBON STEEL
OPERATING P/T : 30 barg / AMB



NOTES

1. DELETED.
2. TIGHT SHUT OFF VALVE.
3. VARIABLE AREA FLOWMETER TO BE INSTALLED VERTICALLY WITH DIRECTION OF FLOW UPWARDS.
4. NITROGEN CONTROL VALVE (25-FV-038) CAN NOT OPEN UNTIL THE PRESSURE WITHIN THE VESSEL IS BELOW THE NITROGEN SUPPLY PRESSURE. 03
5. ONE COMMON UNINSTALLED SPARE PSV FOR ALL VESSELS.
6. FOR PULSE PRESSURE PURGING OF VESSEL WITH HYDROGEN.
7. FOR FLOW PURGING OF VESSEL WITH NITROGEN.
8. FOR DESCRIPTION AND SPECIFICATION OF VESSEL NOZZLE, REFERENCE SHALL BE MADE TO THE TECHNICAL DATA SHEET FOR H2 STORAGE, DOC. N. "123A90-DDL-MAC-DS-50027".
9. REDUCERS TO BE INSTALLED AS CLOSE TO PSV AS POSSIBLE.
10. FOR ORIFICE DIAMETER REFERENCE SHALL BE MADE TO "RELIEF, VENT AND BLOWDOWN REPORT" DOC. N. "123A90-DDL-PR-RE-80030".
11. NOZZLE N4 TO BE INSTALLED AT MINIMUM DISTANCE FROM TANGENT LINE OF THE VESSEL (ON THE OPPOSITE SIDE OF N5 NOZZLE).
12. SOFTWARE INTERLOCK TO PREVENT 25-PV-046 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION AND PROCESS START-UP CHARGING MODE (SEE DOC. "PROCESS CONTROL LOGICS DESCRIPTION" N. 123A90-DDL-IN-RE-40095). CONTROL VALVE 25-PV-046 IS USED ONLY IN CASE OF VESSEL PURGING OR PROCESS START-UP CHARGING MODES. 03
13. SOFTWARE INTERLOCK TO PREVENT 25-FV-038 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION.
14. A TIMER ALARM ON THE H2 PRESSURIZATION SECTION OF THE PURGE CYCLE IN THE CONTROL LOGIC IS PROVIDED TO DETERMINE IF THE PURGE VALVE 25-PV-046 HAS FAILED TO CLOSE.
15. 25-PSV-001E SIZED FOR FIRE.

HOLDS

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

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 STORAGE VESSEL E

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-80019	SHEET 001	REV. 03

File Name : FILE_NAME

DRAWING NO. DRAWING_NO.

REV. REV

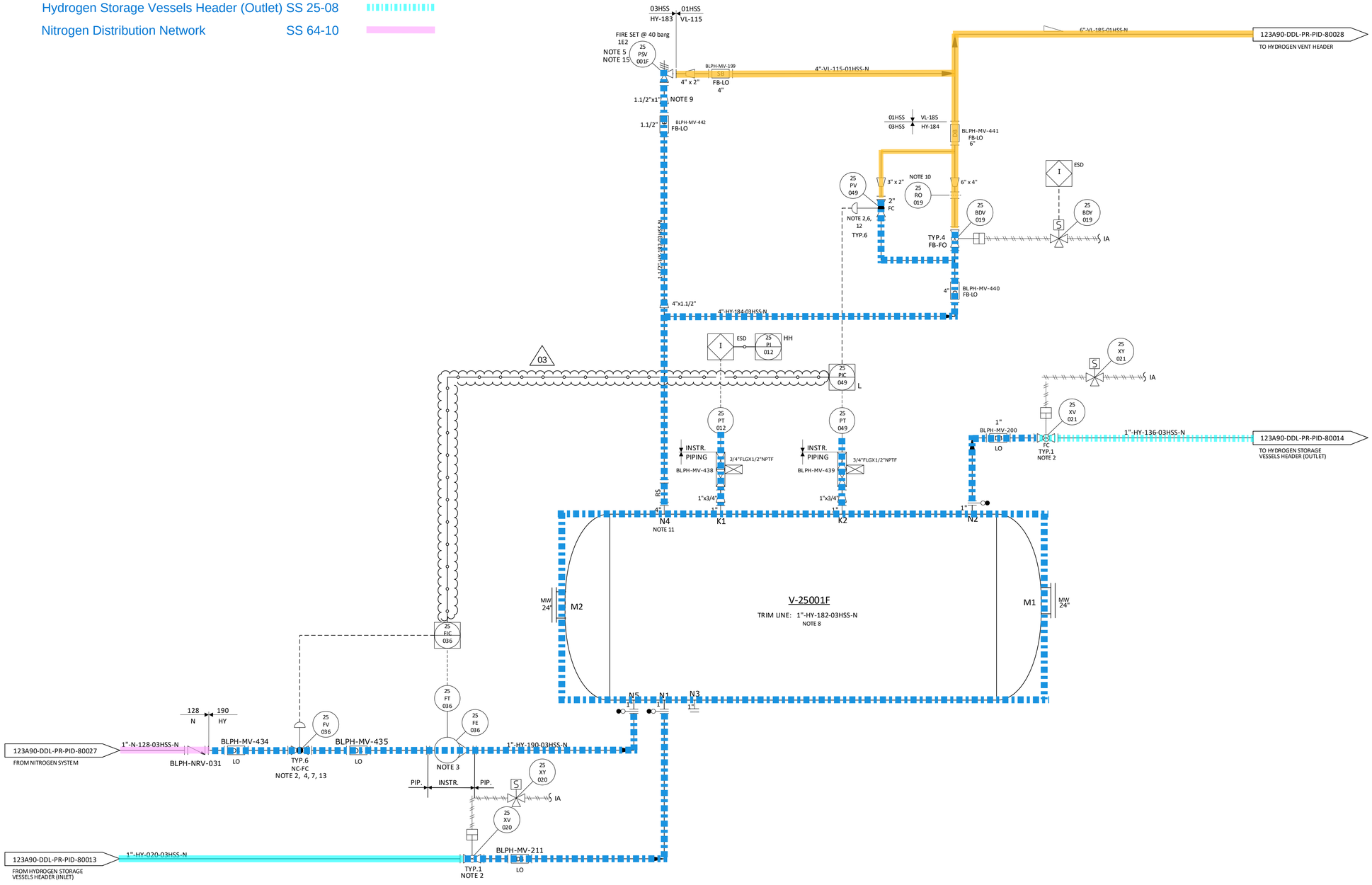
Hydrogen Storage Vessel F (V-25001F) SS 25-06

Hydrogen Vent Header & Drum System SS 43-00

Hydrogen Storage Vessels Header (inlet) SS 25-07

Hydrogen Storage Vessels Header (Outlet) SS 25-08

Nitrogen Distribution Network SS 64-10



NOTES

1. DELETED.
2. TIGHT SHUT OFF VALVE.
3. VARIABLE AREA FLOWMETER TO BE INSTALLED VERTICALLY WITH DIRECTION OF FLOW UPWARDS.
4. NITROGEN CONTROL VALVE (25-FV-036) CAN NOT OPEN UNTIL THE PRESSURE WITHIN THE VESSEL IS BELOW THE NITROGEN SUPPLY PRESSURE. 03
5. ONE COMMON UNINSTALLED SPARE PSV FOR ALL VESSELS.
6. FOR PULSE PRESSURE PURGING OF VESSEL WITH HYDROGEN.
7. FOR FLOW PURGING OF VESSEL WITH NITROGEN.
8. FOR DESCRIPTION AND SPECIFICATION OF VESSEL NOZZLE, REFERENCE SHALL BE MADE TO THE TECHNICAL DATA SHEET FOR H2 STORAGE, DOC. N. "123A90-DDL-MAC-DS-50027".
9. REDUCERS TO BE INSTALLED AS CLOSE TO PSV AS POSSIBLE.
10. FOR ORIFICE DIAMETER REFERENCE SHALL BE MADE TO "RELIEF, VENT AND BLOWDOWN REPORT" DOC. N. "123A90-DDL-PR-RE-80030".
11. NOZZLE N4 TO BE INSTALLED AT MINIMUM DISTANCE FROM TANGENT LINE OF THE VESSEL (ON THE OPPOSITE SIDE OF N5 NOZZLE).
12. SOFTWARE INTERLOCK TO PREVENT 25-PV-049 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION AND PROCESS START-UP CHARGING MODE (SEE DOC. "PROCESS CONTROL LOGICS DESCRIPTION" N. 123A90-DDL-IN-RE-40095). CONTROL VALVE 25-PV-049 IS USED ONLY IN CASE OF VESSEL PURGING OR PROCESS START-UP CHARGING MODES. 03
13. SOFTWARE INTERLOCK TO PREVENT 25FV036 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION.
14. A TIMER ALARM ON THE H2 PRESSURIZATION SECTION OF THE PURGE CYCLE IN THE CONTROL LOGIC IS PROVIDED TO DETERMINE IF THE PURGE VALVE 25-PV-049 HAS FAILED TO CLOSE.
15. 25-PSV-001F SIZED FOR FIRE.

HOLDS

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

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 HAZOP (IFA)
00	20/10/2023	CIM	RZI	DLO	ISSUE FOR ACCEPTANCE (IFA)

CROSSWIND

ROSETTI MARINO

TITLE :
BLPH PIPING AND INSTRUMENTATION DIAGRAM
HYDROGEN STORAGE VESSEL F

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-80020	SHEET 001	REV. 03

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:	2025-04-07	
System:	64	/	Nitrogen System		
SubSystem:	64-10	/	Nitrogen Distribution Network		

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: 14

REMARKS:

	CONTRACTOR Commissioning Manager	**COMPANY** Commissioning Lead
Name	Anthony Iveson	Martin Taylor
Date	2025-04-08	2025-04-26
Signature	PROVERLIS Digitaly signed by Anthony Iveson 2025-04-08T11:58:22.102Z	PROVERLIS Digitaly signed by Martin Taylor 2025-04-26T16:55:24.148Z

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 64-10 & process: COMM

Instrumental	64-10 Nitrogen Distribution Network

ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
64-PIC-031A	Nitrogen pressure control to distribution header	ONSHORE	C10003763	FJ01C	100	2025-03-26	RFO 1
64-PIC-031B	Nitrogen pressure control to distribution header	ONSHORE	C10003765	FJ01C	100	2025-03-26	RFO 1
64-PT-002	Pressure Transmitter - Nitrogen to Distribution Header Low Pressure	ONSHORE	C10003186	FJ01A	100	2025-03-26	RFO 1
64-PT-031A	Pressure Transmitter - Nitrogen Pressure Control to Distribution Header	ONSHORE	C10003187	FJ01A	100	2025-03-19	RFO 1
64-PT-031B	Pressure Transmitter - Nitrogen Pressure Control to Distribution Header	ONSHORE	C10003188	FJ01A	100	2025-03-19	RFO 1
64-PV-031A	Control Valve - Nitrogen Pressure Control to Distribution Header	ONSHORE	C10004390	FJ04	100	2025-03-26	RFO 1
64-PV-031B	Control Valve - Nitrogen Pressure Control to Distribution Header	ONSHORE	C10004391	FJ04	100	2025-03-26	RFO 1
64-SDV-001	On/Off Valve - Nitrogen to Distribution Header Shut-Down	ONSHORE	C10003231	FJ01V	100	2025-03-26	RFO 1

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 64-10 & process: COMM

Piping	64-10 Nitrogen Distribution Network						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
64-10	Service Test Nitrogen Distribution Network	ONSHORE	C10004909	4245	100	2025-03-28	RFO 1

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System

SUBSYSTEM 64-10 Nitrogen Distribution Network

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003202	A	035-1-J1 C10004226	The Instrument is in AISI 316 but the line is in CS. The isometric requires no insulation kit and flange management has been completed such as. But	.		KAlbonetti 2025-01-25	2025-02-19	KAlbonetti 2025-02-19	2025-02-19
C30003203	A	035-1-J2 C10004227	The Instrument is in AISI 316 but the line is in CS. The isometric requires no insulation kit and flange management has been completed such as. But	.		KAlbonetti 2025-01-25	2025-02-19	KAlbonetti 2025-02-19	2025-02-19
C30003577	A	64-10-TP-023 C10003407	Flange management activity to be done on joint J5 (BLPH-MV-167). Broken joint done without authorization	.		AMancini 2025-02-06	2025-02-20	LNovaga 2025-02-20	2025-02-20
C30003615	A	64-10-TP-023 C10003407	Check Valve BLPH-NRV-019 has no flow direction market visibly on its body. It is not possibile to confirm it has been mounted correctly	.		LNovaga 2025-02-08	2025-02-28	KAlbonetti 2025-02-28	2025-02-28
C30003681	A	64-10-TP-047 C10003591	Earthing lug totally painted.	.		KAlbonetti 2025-02-11	2025-02-26	KAlbonetti 2025-02-26	2025-02-26
C30001618	B	64-10-TP-051 C10003609	Spool has not been installed in erection. Inspection points from 4 to 6 of the "Inspection before testing" to be checked during	.		KAlbonetti 2024-12-10	2025-01-16	LNovaga 2025-01-16	2025-01-16
C30001846	B	64-10-TP-020 C10003381	Position F1 of the support PS-0358 has Horizontal misalignment.	-		MBruschi 2024-12-13	2025-02-08	LNovaga 2025-02-08	2025-02-08
C30001848	B	64-10-TP-020 C10003381	Position F1 of the support PS-03600 has horizontal misalignment.	-		MBruschi 2024-12-13	2025-02-08	LNovaga 2025-02-08	2025-02-08
C30001852	B	64-10-TP-020 C10003381	All supports S-211 need to check the gap, isolation rubber, ptfe bounded and lock nut in the reinstatement phase.	-		MBruschi 2024-12-13	2025-02-08	LNovaga 2025-02-08	2025-02-08

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System
SUBSYSTEM 64-10 Nitrogen Distribution Network

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001899	B	64-10-TP-020 C10003381	Support PS-02012 not assembled in erection. (Due lack of Valves' positioning)	.		KAlbonetti 2024-12-16	2025-02-08	LNovaga 2025-02-08	2025-02-08
C30001900	B	64-10-TP-020 C10003381	Support PS-02016 not assembled in erection.	.		KAlbonetti 2024-12-16	2025-02-08	LNovaga 2025-02-08	2025-02-08
C30001901	B	64-10-TP-020 C10003381	Support PS-02020 not assembled in erection.	.		KAlbonetti 2024-12-16	2025-02-08	LNovaga 2025-02-08	2025-02-08
C30001904	B	64-10-TP-020 C10003381	Support PS-03014 not assembled in erection.	.		KAlbonetti 2024-12-16	2025-02-08	LNovaga 2025-02-08	2025-02-08
C30001909	B	64-10-TP-020 C10003381	Support PS-03037 not assembled in erection.	.		KAlbonetti 2024-12-16	2025-02-08	LNovaga 2025-02-08	2025-02-08
C30001910	B	64-10-TP-020 C10003381	Support PS-03047 not assembled in erection.	.		KAlbonetti 2024-12-16	2025-02-08	LNovaga 2025-02-08	2025-02-08
C30002117	B	64-10-TP-023 C10003406	SK.34 (2/2): Position F2 of piping support PS-02095 is actually a HEA120 instead of UPN120.	.		KAlbonetti 2024-12-20			
C30002118	B	64-10-TP-023 C10003406	For all supports type S-211 the isolating ruber, the gap, the lock nuts and the washers shall be checked again during reinstatement because they	.		KAlbonetti 2024-12-20	2025-02-19	KAlbonetti 2025-02-19	2025-02-19
C30002135	B	64-10-TP-023 C10003406	Sk.66 (Sh.1/1): Support PS-01031.2: there is no STD S-211 and the structural part has not been drilled yet.	.		KAlbonetti 2024-12-24	2025-02-19	KAlbonetti 2025-02-19	2025-02-19

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System
SUBSYSTEM 64-10 Nitrogen Distribution Network

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002136	B	64-10-TP-023 C10003406	SK.034 (SH.1/2) spools A and B; SK.097 (SH.1/1) Spools A and B: these spools are moved +40 mm eastward. Alignement of supports and connection	.		KAlbonetti 2024-12-24	2025-02-19	KAlbonetti 2025-02-19	2025-02-19
C30002137	B	64-10-TP-023 C10003406	Sk.34 (Sh.1/2): Support PS-01025.3: position R1 has not been assembled yet.	.		KAlbonetti 2024-12-24	2025-02-19	KAlbonetti 2025-02-19	2025-02-19
C30002145	B	64-10-TP-023 C10003406	SK.062 (SH.2/2) spool D: Flange joint J3 has been only temporary tightened. Flange management to be done during reinstatement.	.		KAlbonetti 2024-12-24	2025-02-19	KAlbonetti 2025-02-19	2025-02-19
C30002146	B	64-10-TP-023 C10003406	SK.062 (SH.2/2) spool G: between supports PS-03123.1 and PS-03122.1 the pipe is bended.	.		KAlbonetti 2024-12-24	2025-03-11	LNovaga 2025-03-11	2025-03-11
C30002147	B	64-10-TP-023 C10003406	SK.062 (SH.2/2) Spool F: earthing plate W24. Position from W26 shall be changed from 638 mm to 350 mm.	.		KAlbonetti 2024-12-24	2025-04-02	LNovaga 2025-04-02	2025-04-02
C30002155	B	64-10-TP-023 C10003406	SK.062 (SH.2/2) the support PS-02094.1 has been mounted and welded with a clockwise turn of 90°. In addition the L profile is shorter of 15	.		KAlbonetti 2024-12-24	2025-02-27	LNovaga 2025-02-27	2025-02-27
C30002337	B	64-10-TP-047 C10003589	SK.065 (SH.1/1): For PS-02024.1 the position R1 has not been installed yet. The support is also 5 mm shorter.	.		KAlbonetti 2025-01-03	2025-02-14	LNovaga 2025-02-14	2025-02-14
C30002339	B	64-10-TP-047 C10003589	Spool has not been installed in erection. Inspection point n.5 of the ITR to be checked during reinstatement.	.		KAlbonetti 2025-01-03	2025-02-14	LNovaga 2025-02-14	2025-02-14
C30003465	B	64-10-TP-051 C10003610	Standard S-211 on the support "PS-01009" must have 2mm of gap.	.		MBruschi 2025-02-03	2025-02-11	KAlbonetti 2025-02-11	2025-02-11

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System
SUBSYSTEM 64-10 Nitrogen Distribution Network

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003550	B	64-10-TP-023 C10003408	Color coding and fluid direction are missing.	.		KAlbonetti 2025-02-05	2025-03-21	LNovaga 2025-03-21	2025-03-21
C30003551	B	64-10-TP-023 C10003408	General touch up do to, especially near the supports of the piping line.	.		KAlbonetti 2025-02-05			
C30003558	B	64-10-TP-051 C10003611	Color coding and fluid direction are missing.	.		KAlbonetti 2025-02-05	2025-03-25	LNovaga 2025-03-25	2025-03-25
C30003559	B	64-10-TP-051 C10003611	General touch up do to, especially near the supports of the piping line.	.		KAlbonetti 2025-02-05			
C30003578	B	64-10-TP-023 C10003408	The valve BLPH-MV-386 has drain plug not painted.	.		KAlbonetti 2025-02-06			
C30003672	B	64-10-TP-020 C10003383	Several touch-ups to be still made.	.		KAlbonetti 2025-02-11	2025-02-28	LNovaga 2025-02-28	2025-02-28
C30003678	B	64-10-TP-047 C10003591	Color coding and fluid direction are missing.	.		KAlbonetti 2025-02-11	2025-03-21	LNovaga 2025-03-21	2025-03-21
C30004168	B	64-10-TP-023 C10003406	Check Valve BLPH-NRV-019 has no flow direction market visibly on its body.	.		KAlbonetti 2025-02-28			
C30004169	B	64-10-TP-047 C10003590	Earthing lug on TP-47 (Sk.65) has been connected to two different earthing cables. Disconnect one and put to earth on structure or	.		KAlbonetti 2025-02-28	2025-03-26	Gtangianu 2025-03-26	2025-03-26

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System
SUBSYSTEM 64-10 Nitrogen Distribution Network

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003216	B	C-64-ZSL-031B/ 00-JE-12006 C10000109	Missing cable tag SS , near the JB 00-JE-12006	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003217	B	C-64-ZSL-031B/ 00-JE-12006 C10000109	Wrong cores identification tag. side J.B. 00-JE-12006 . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003218	B	C-64-ZSH-031B/ 00-JE-12006 C10000110	Wrong cores identification tag. side J.B. 00-JE-12006 . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003219	B	C-64-ZSH-031B/ 00-JE-12006 C10000110	Missing cable tag SS , near the JB 00-JE-12006.	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003220	B	C-64-PY-031A/0 0-JE-11004 C10000055	Wrong cores identification tag. side J.B. 00-JE-11004 . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003221	B	C-64-PY-031B/0 0-JE-11004 C10000056	Wrong cores identification tag. side J.B. 00-JE-11004 . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003222	B	C-64-ZT-031A/0 0-JE-11005 C10000059	Wrong cores identification tag. side J.B. 00-JE-11005 . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003223	B	C-64-ZT-031A/0 0-JE-11005 C10000059	Missing cable tag SS , near the JB 00-JE-11005	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003224	B	C-64-ZT-031A/0 0-JE-11005 C10000059	Wrong cores identification tag. side 64-ZT-031A . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System
SUBSYSTEM 64-10 Nitrogen Distribution Network

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003225	B	C-64-ZT-031B/00-JE-11005 C10000060	Wrong cores identification tag. side J.B. 00-JE-12005 / stru. 64-ZT-031B . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003226	B	C-64-ZT-031B/00-JE-11005 C10000060	Missing cable tag SS , near the JB 00-JE-11005	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003227	B	C-64-ZSL-031A/00-JE-12006 C10000107	Missing cable tag SS , near the JB 00-JE-12006	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003228	B	C-64-ZSL-031A/00-JE-12006 C10000107	Wrong cores identification tag. side J.B. 00-JE-12006 . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003229	B	C-64-ZSH-031A/00-JE-12006 C10000108	Wrong cores identification tag. side J.B. 00-JE-12006 . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003230	B	C-64-ZSH-031A/00-JE-12006 C10000108	Missing cable tag SS , near the JB 00-JE-12006	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003232	B	64-ZSHL-031B C10002030	The visual indicator cover (limit switch ZSHL) is damaged. To be replaced	.		APolo 2025-01-28	2025-03-25	Gtangianu 2025-03-25	2025-03-25
C30003236	B	64-PV-031A C10001193	Missing suitable Plug "on Air set Filter".	.		APolo 2025-01-28	2025-03-25	Gtangianu 2025-03-25	2025-03-25
C30003238	B	64-PV-031B C10001194	Missing suitable Plug "on Air set Filter".	.		APolo 2025-01-28	2025-03-26	Gtangianu 2025-03-26	2025-03-26

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System
SUBSYSTEM 64-10 Nitrogen Distribution Network

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003570	B	C-64-SDY-001/00-JE-23002 C10001839	The cable installed is temporary. To be replaced	.		APolo 2025-02-05	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30003580	B	C-64-PT-002/00-JE-21002 C10000139	The cable (between external cable tray and instrument) to be dressed/fixed properly.	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003581	B	64-PT-002 C10000912	Missing traffolyte tag side instrument	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003588	B	64-PT-002 C10000912	Missing tag SS , on the instrument.	.		APolo 2025-02-07	2025-02-21	AAndreani 2025-02-21	2025-02-21
C30003589	B	64-PT-002 C10000912	The earthing cable of the instrument to be connected and dressed/fixed properly.	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003590	B	C-64-PT-031B/00-JE-11004 C10000054	The cable (between external cable tray and instrument) to be dressed/fixed properly.	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003591	B	64-PT-031B C10000914	The earthing cable of the instrument to be connected and dressed/fixed properly.	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003592	B	64-PT-031B C10000914	Missing traffolyte tag side instrument	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003593	B	64-PT-031B C10000914	Missing tag SS , on the instrument.	.		APolo 2025-02-07	2025-02-21	AAndreani 2025-02-21	2025-02-21

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System
SUBSYSTEM 64-10 Nitrogen Distribution Network

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003598	B	C-64-PT-031A/00-JE-11004 C10000053	The cable (between external cable tray and instrument) to be dressed/fixed properly.	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003599	B	64-PT-031A C10000913	Missing traffolyte tag side instrument	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003600	B	64-PT-031A C10000913	Missing tag SS , on the instrument.	.		APolo 2025-02-07	2025-02-21	AAndreani 2025-02-21	2025-02-21
C30003601	B	64-PT-031A C10000913	The earthing cable of the instrument to be connected and dressed/fixed properly.	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003639	B	64-PSV-001 C10001191	Touch-up is required	.		GBertuccelli 2025-02-10			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System
SUBSYSTEM 64-10 Nitrogen Distribution Network

ATEX

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003421	B	64-SDV-001 C10001617	Scratch on painting, general touch-up to be performed	.		Lmussi 2025-01-31			
C30003422	B	64-SDV-001 C10001617	On ATEX register (123A90-DDL-EL-LIS-20094 sheet 7) Manufacturer, Atex certificate, Atex marking etc. are missing or wrong.	.		Lmussi 2025-01-31			
C30003462	B	64-PG-001 C10004848	Equipment ATEX label is missing	.		Lmussi 2025-02-01			
C30003463	B	64-PG-001 C10004848	Equipment tag plate is missing	.		Lmussi 2025-02-01	2025-02-16	Lmussi 2025-02-16	2025-02-16
C30003498	B	64-PSV-001_1 C10004852	Equipment ATEX identification label is missing	.		Lmussi 2025-02-03			
C30003499	B	64-PSV-001_1 C10004852	ATEX Declaration of Conformity by Manufacturer is missing	.		Lmussi 2025-02-03			
C30003500	B	64-PSV-001_1 C10004852	Equipment tag plate is missing	.		Lmussi 2025-02-03	2025-02-16	Lmussi 2025-02-16	2025-02-16
C30003501	B	64-PSV-001_1 C10004852	On ATEX register (123A90-DDL-EL-LIS-20094) equipment is missing	.		Lmussi 2025-02-03			
C30003562	B	64-ZSHL-001 C10002042	Doc: document 123A90-DDL-EL-LIS-20094 does not report what was installed in the field (see picture)	.		APolo 2025-02-05			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System
SUBSYSTEM 64-10 Nitrogen Distribution Network

ATEX

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003571	B	64-SDY-001 C10002041	Missing tag SS , on Solenoid Valve.	.		APolo 2025-02-05	2025-02-21	AAndreani 2025-02-21	2025-02-21
C30003572	B	64-SDY-001 C10002041	Doc: document 123A90-DDL-EL-LIS-20094 does not report what was installed in the field (see picture)	.		APolo 2025-02-05			
C30004019	B	64-FG-001 C10000911	Vendor to confirm earthing connection method	.		Lmussi 2025-02-19	2025-04-02	Ecarotenuto 2025-04-02	2025-04-02

Section 2.2 Exception Punch Lists (per discipline)

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	64	Nitrogen System
SUBSYSTEM	64-10	Nitrogen Distribution Network

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002117	B	64-10-TP-023 C10003406	SK.34 (2/2): Position F2 of piping support PS-02095 is actually a HEA120 instead of UPN120.	.		KAlbonetti 2024-12-20			

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System

SUBSYSTEM 64-10 Nitrogen Distribution Network

ATEX									
CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003422	B	64-SDV-001 C10001617	On ATEX register (123A90-DDL-EL-LIS-20094 sheet 7) Manufacturer, Atex certificate, Atex marking etc. are missing or wrong.	.		Lmussi 2025-01-31			
C30003501	B	64-PSV-001_1 C10004852	On ATEX register (123A90-DDL-EL-LIS-20094) equipment is missing	.		Lmussi 2025-02-03			
C30003562	B	64-ZSHL-001 C10002042	Doc: document 123A90-DDL-EL-LIS-20094 does not report what was installed in the field (see picture)	.		APolo 2025-02-05			
C30003572	B	64-SDY-001 C10002041	Doc: document 123A90-DDL-EL-LIS-20094 does not report what was installed in the field (see picture)	.		APolo 2025-02-05			

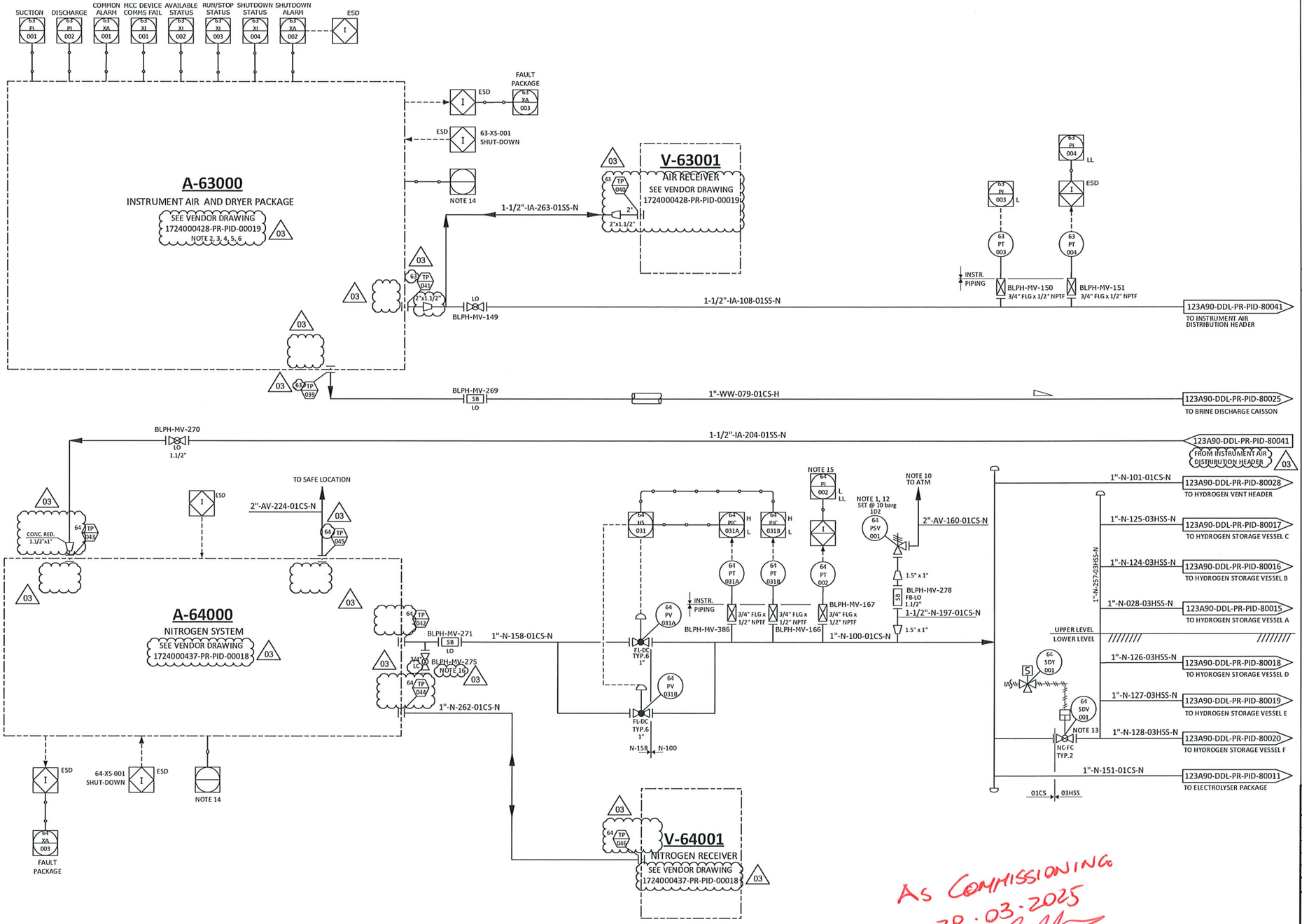
Section 2.3 “As-Commissioned” P&ID's / SLD's / D&ID's / C&E's

DRAWING NO. DRAWING_NO.

REV. REV

A-63000
INSTRUMENT AIR AND DRYER PACKAGE
CAPACITY : 313 Sm³/h (PRODUCTION)

A-64000
NITROGEN GENERATION SYSTEM
CAPACITY : 52.7 Sm³/h (PRODUCTION)



NOTES

1. ONE UNINSTALLED SPARE PSV SHALL BE AVAILABLE.
2. COMPRESSORS AND DRIERS DESIGNED FOR 2 X 100% CONFIGURATION. INSTRUMENT AIR RECEIVER DESIGNED FOR 1 X 100%.
3. VENDOR TO PROVIDE NECESSARY CONTROLS, INSTRUMENTATIONS AND ISOLATIONS IN ORDER TO OPERATE THE PLANT IN SAFE MANNER.
4. COMPRESSORS WILL OPERATE ON THE BASIS OF ONE WORKING AND ONE ON STANDBY.
5. COMPRESSORS TO BE ROTARY SCREW TYPE OIL FREE.
6. AIR COMPRESSOR INLET TO BE LOCATED AWAY FROM ANY VENTS.
7. DELETED.
8. DELETED.
9. DELETED.
10. TO SAFE LOCATION, ROUTED AWAY FROM WALKWAYS.
11. DELETED.
12. 64-PSV-001 SIZED FOR UPSTREAM 64-PV-031 CV FAILURE.
13. 64-SDV-001 IS NORMALLY CLOSED. IF REQUIRED THE OPERATOR CAN REMOTELY OPEN THE VALVE TO ALLOW PURGING OPERATION. VALVE 64-SDV-001 IS ALSO CONNECTED TO THE PCS SYSTEM.
14. SERIAL COMMUNICATION WITH CONTROL SYSTEM.
15. THE ALARM 64-PAL-002 WILL CLOSE 64-SDV-001 THROUGH SAFETY SYSTEM.
16. MANUAL VALVE BLPH-MV-275 TO BE CONNECTED WITH MANUAL VALVE BLPH-MV-466 (INSTALLED ON ELECTROLYSER PACKAGE EXIT LINE) BY MEAN ON A FLEXIBLE HOSE DURING COMMISSIONING PHASE FOR PURGING OPERATION.

HOLDS

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

As Commissioning
28.03.2025
Giandonato De Nissier

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
INSTRUMENT AIR 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-80027		SHEET 001 / REV. 03

File Name : FILE_NAME

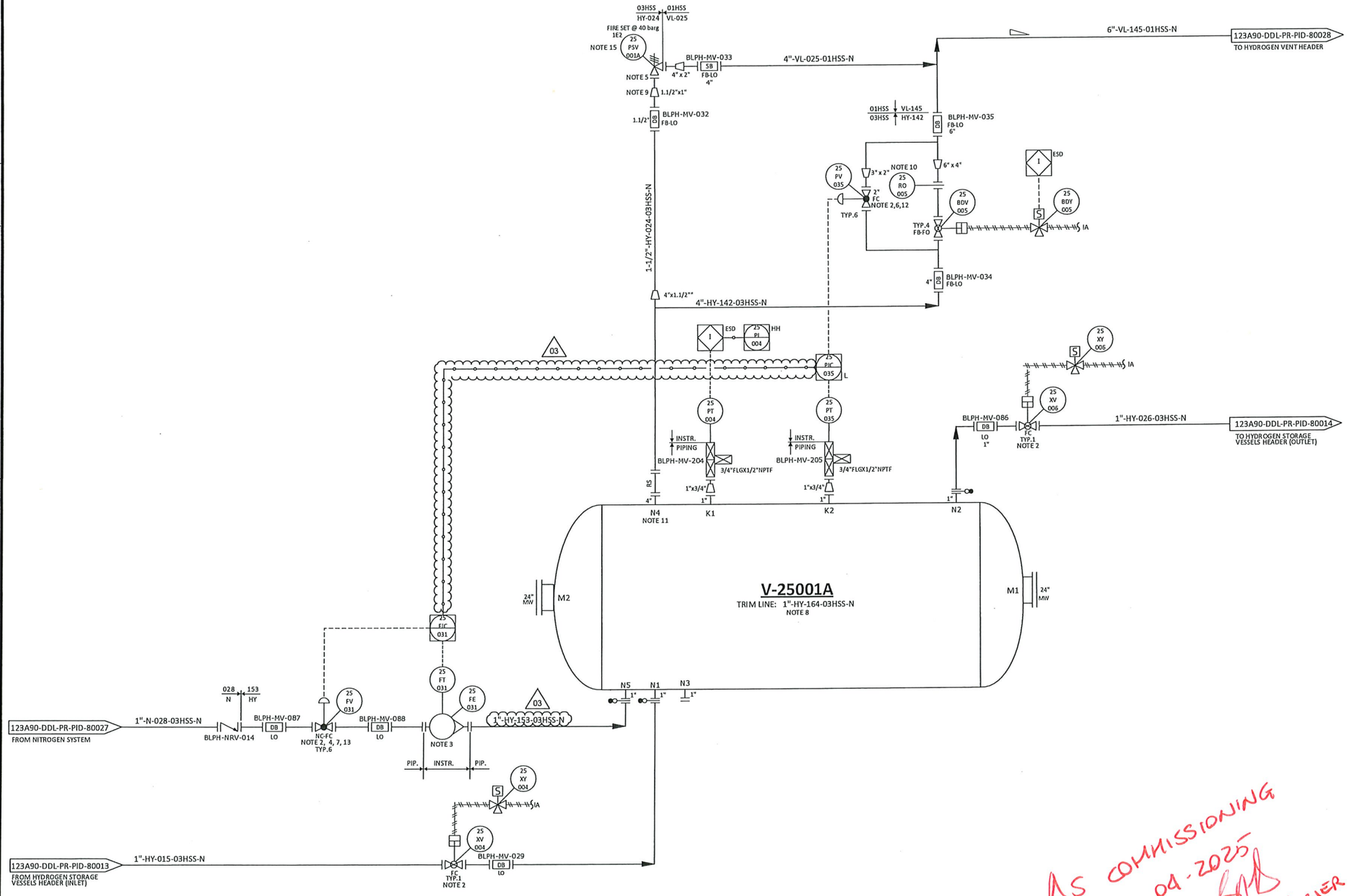
DRAWING NO. DRAWING_NO.

REV. REV

V-25001 A

HYDROGEN STORAGE VESSEL

SIZE : 2800 mm (ID) X 15500 mm (L T/T)
DESIGN P/T : 40 barg / -10 / 80 °C
MATERIAL : CARBON STEEL
OPERATING P/T : 30 barg /AMB



NOTES

1. DELETED.
2. TIGHT SHUT OFF VALVE.
3. VARIABLE AREA FLOWMETER TO BE INSTALLED VERTICALLY WITH DIRECTION OF FLOW UPWARDS.
4. NITROGEN CONTROL VALVE (25-FV-031) CAN NOT OPEN UNTIL THE PRESSURE WITHIN THE VESSEL IS BELOW THE NITROGEN SUPPLY PRESSURE.
5. ONE COMMON UNINSTALLED SPARE PSV FOR ALL VESSELS.
6. FOR PULSE PRESSURE PURGING OF VESSEL WITH HYDROGEN.
7. FOR FLOW PURGING OF VESSEL WITH NITROGEN.
8. FOR DESCRIPTION AND SPECIFICATION OF VESSEL NOZZLE, REFERENCE SHALL BE MADE TO THE TECHNICAL DATA SHEET FOR H2 STORAGE, DOC. N. "123A90-DDL-MAC-DS-50027".
9. REDUCERS TO BE INSTALLED AS CLOSE TO PSV AS POSSIBLE.
10. FOR ORIFICE DIAMETER REFERENCE SHALL BE MADE TO "RELIEF, VENT AND BLOWDOWN REPORT "DOC. N. "123A90-DDL-PR-RE-80030".
11. NOZZLE N4 TO BE INSTALLED AT MINIMUM DISTANCE FROM TANGENT LINE OF THE VESSEL (ON THE OPPOSITE SIDE OF N5 NOZZLE).
12. SOFTWARE INTERLOCK TO PREVENT 25-PV-035 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION AND PROCESS START-UP CHARGING MODE (SEE DOC. "PROCESS CONTROL LOGICS DESCRIPTION" N. 123A90-DDL-IN-RE-40095). CONTROL VALVE 25-PV-035 IS USED ONLY IN CASE OF VESSEL PURGING OR PROCESS START-UP CHARGING MODES. 03
13. SOFTWARE INTERLOCK TO PREVENT 25-FV-031 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION.
14. A TIMER ALARM ON THE H2 PRESSURIZATION SECTION OF THE PURGE CYCLE IN THE CONTROL LOGIC IS PROVIDED TO DETERMINE IF THE PURGE VALVE 25-PV-035 HAS FAILED TO CLOSE.
15. 25-PSV-001A SIZED FOR FIRE.

HOLDS

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

AS COMMISSIONING
02-04-2025
GIANDONATO DEL 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 STORAGE VESSEL A

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-80015		SHEET 001 / REV. 03

File Name : FILE_NAME

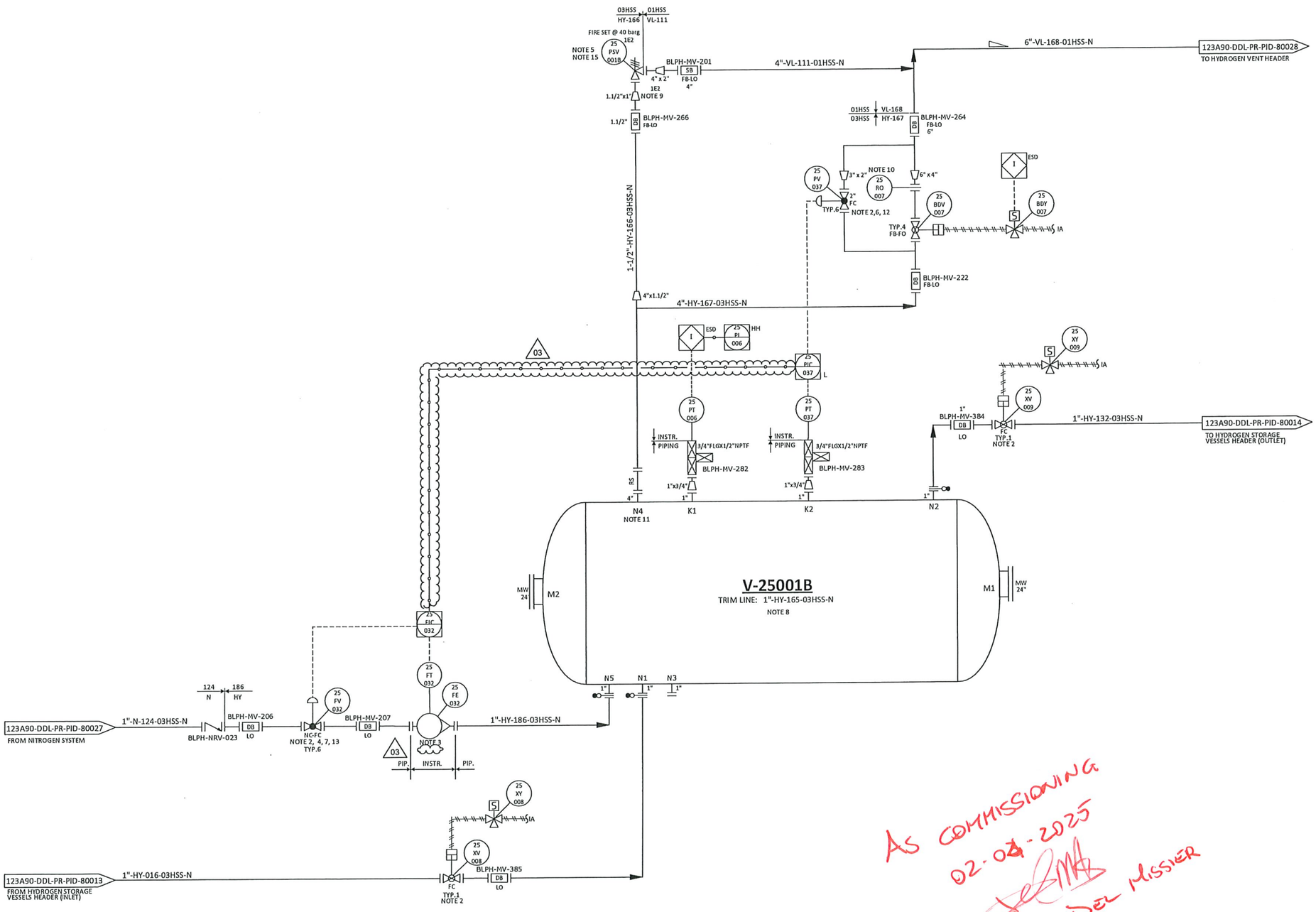
DRAWING NO. DRAWING_NO.

REV. REV

V-25001 B

HYDROGEN STORAGE VESSEL

SIZE : 2800 mm (ID) X 15500 mm (L T/T)
DESIGN P/T : 40 barg / -10 / 80 °C
MATERIAL : CARBON STEEL
OPERATING P/T : 30 barg / AMB



NOTES

1. DELETED.
2. TIGHT SHUT OFF VALVE.
3. VARIABLE AREA FLOWMETER TO BE INSTALLED VERTICALLY WITH DIRECTION OF FLOW UPWARDS.
4. NITROGEN CONTROL VALVE (25-FV-032) CAN NOT OPEN UNTIL THE PRESSURE WITHIN THE VESSEL IS BELOW THE NITROGEN SUPPLY PRESSURE. 03
5. ONE COMMON UNINSTALLED SPARE PSV FOR ALL VESSELS.
6. FOR PULSE PRESSURE PURGING OF VESSEL WITH HYDROGEN.
7. FOR FLOW PURGING OF VESSEL WITH NITROGEN.
8. FOR DESCRIPTION AND SPECIFICATION OF VESSEL NOZZLE, REFERENCE SHALL BE MADE TO THE TECHNICAL DATA SHEET FOR H2 STORAGE, DOC. N. "123A90-DDL-MAC-DS-50027".
9. REDUCERS TO BE INSTALLED AS CLOSE TO PSV AS POSSIBLE.
10. FOR ORIFICE DIAMETER REFERENCE SHALL BE MADE TO "RELIEF, VENT AND BLOWDOWN REPORT "DOC. N. "123A90-DDL-PR-RE-80030".
11. NOZZLE N4 TO BE INSTALLED AT MINIMUM DISTANCE FROM TANGENT LINE OF THE VESSEL (ON THE OPPOSITE SIDE OF N5 NOZZLE).
12. SOFTWARE INTERLOCK TO PREVENT 25-PV-037 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION AND PROCESS START-UP CHARGING MODE (SEE DOC."PROCESS CONTROL LOGICS DESCRIPTION" N. 123A90-DDL-IN-RE-40095). CONTROL VALVE 25-PV-037 IS USED ONLY IN CASE OF VESSEL PURGING OR PROCESS START-UP CHARGING MODES. 03
13. SOFTWARE INTERLOCK TO PREVENT 25-FV-032 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION.
14. A TIMER ALARM ON THE H2 PRESSURIZATION SECTION OF THE PURGE CYCLE IN THE CONTROL LOGIC IS PROVIDED TO DETERMINE IF THE PURGE VALVE 25-PV-037 HAS FAILED TO CLOSE.
15. 25-PSV-001B SIZED FOR FIRE.

HOLDS

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

AS COMMISSIONING
02-04-2025
GIANDONATO DEL 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 STORAGE VESSEL B

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-80016		SHEET 001 / REV. 03

File Name : FILE_NAME

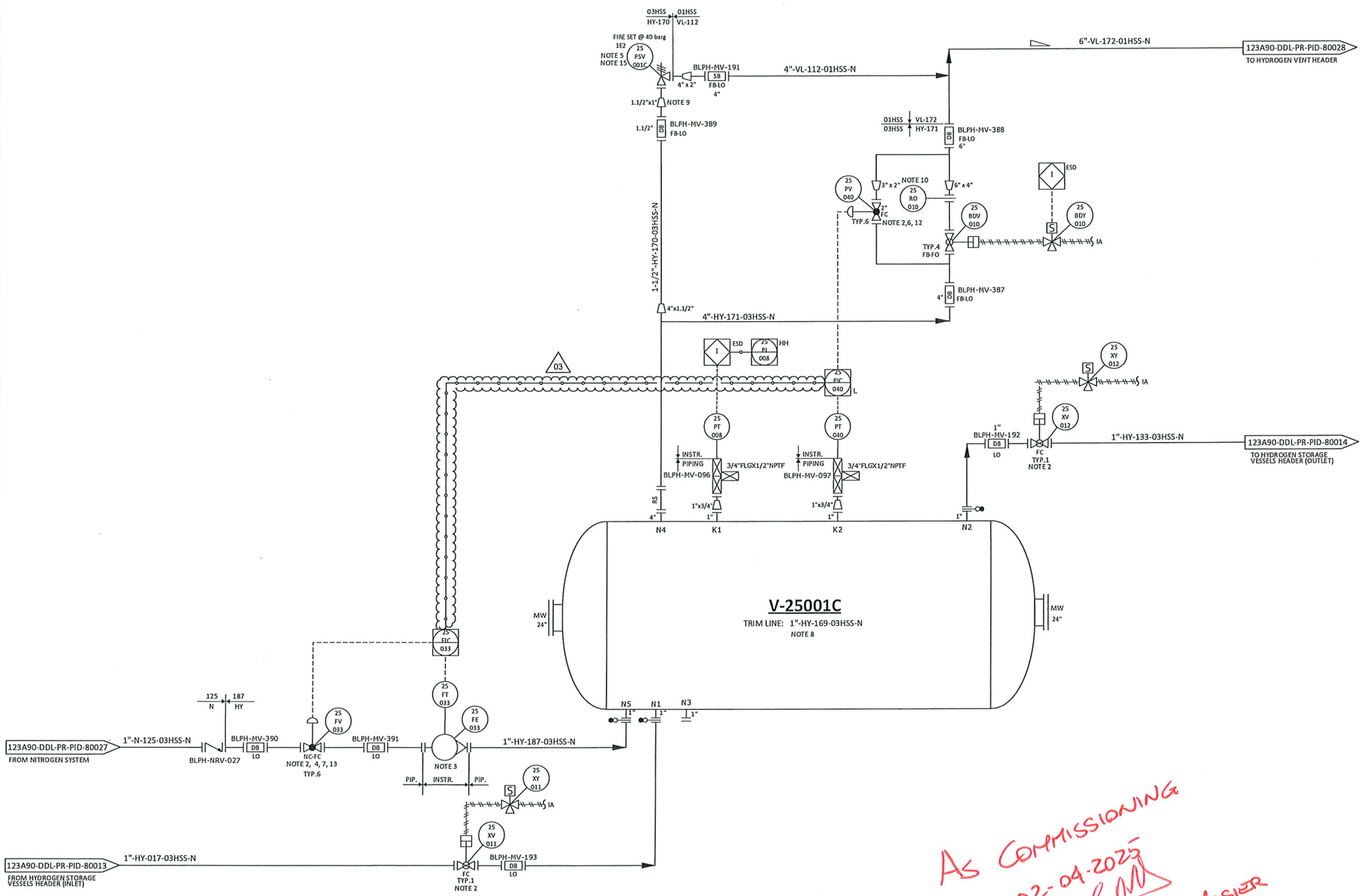
DRAWING NO. DRAWING_NO.

REV. REV

V-25001 C

HYDROGEN STORAGE VESSEL

SIZE : 2800 mm (ID) X 15500 mm (L T/T)
DESIGN P/T : 40 barg / -10 / 80 °C
MATERIAL : CARBON STEEL
OPERATING P/T : 30 barg / AMB



NOTES

1. DELETED.
2. TIGHT SHUT OFF VALVE.
3. VARIABLE AREA FLOWMETER TO BE INSTALLED VERTICALLY WITH DIRECTION OF FLOW UPWARDS.
4. NITROGEN CONTROL VALVE (25-FV-033) CAN NOT OPEN UNTIL THE PRESSURE WITHIN THE VESSEL IS BELOW THE NITROGEN SUPPLY PRESSURE. 03
5. ONE COMMON UNINSTALLED SPARE PSV FOR ALL VESSELS.
6. FOR PULSE PRESSURE PURGING OF VESSEL WITH HYDROGEN.
7. FOR FLOW PURGING OF VESSEL WITH NITROGEN.
8. FOR DESCRIPTION AND SPECIFICATION OF VESSEL NOZZLE, REFERENCE SHALL BE MADE TO THE TECHNICAL DATA SHEET FOR H2 STORAGE, DOC. N. "123A90-DDL-MAC-DS-50027".
9. REDUCERS TO BE INSTALLED AS CLOSE TO PSV AS POSSIBLE.
10. FOR ORIFICE DIAMETER REFERENCE SHALL BE MADE TO "RELIEF, VENT AND BLOWDOWN REPORT" DOC. N. "123A90-DDL-PR-RE-80030".
11. NOZZLE N4 TO BE INSTALLED AT MINIMUM DISTANCE FROM TANGENT LINE OF THE VESSEL (ON THE OPPOSITE SIDE OF N5 NOZZLE).
12. SOFTWARE INTERLOCK TO PREVENT 25-PV-040 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION AND PROCESS START-UP CHARGING MODE (SEE DOC. "PROCESS CONTROL LOGICS DESCRIPTION" N. 123A90-DDL-IN-RE-40095). CONTROL VALVE 25-PV-040 IS USED ONLY IN CASE OF VESSEL PURGING OR PROCESS START-UP CHARGING MODES. 03
13. SOFTWARE INTERLOCK TO PREVENT 25-FV-033 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION.
14. A TIMER ALARM ON THE H2 PRESSURIZATION SECTION OF THE PURGE CYCLE IN THE CONTROL LOGIC IS PROVIDED TO DETERMINE IF THE PURGE VALVE 25-PV-040 HAS FAILED TO CLOSE.
15. 25-PS-V001C SIZED FOR FIRE.

HOLDS

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

As Commissioning
02-09-2025
Giandonato De 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 STORAGE VESSEL C

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-80017	SHEET 001	REV. 03

File Name : FILE_NAME

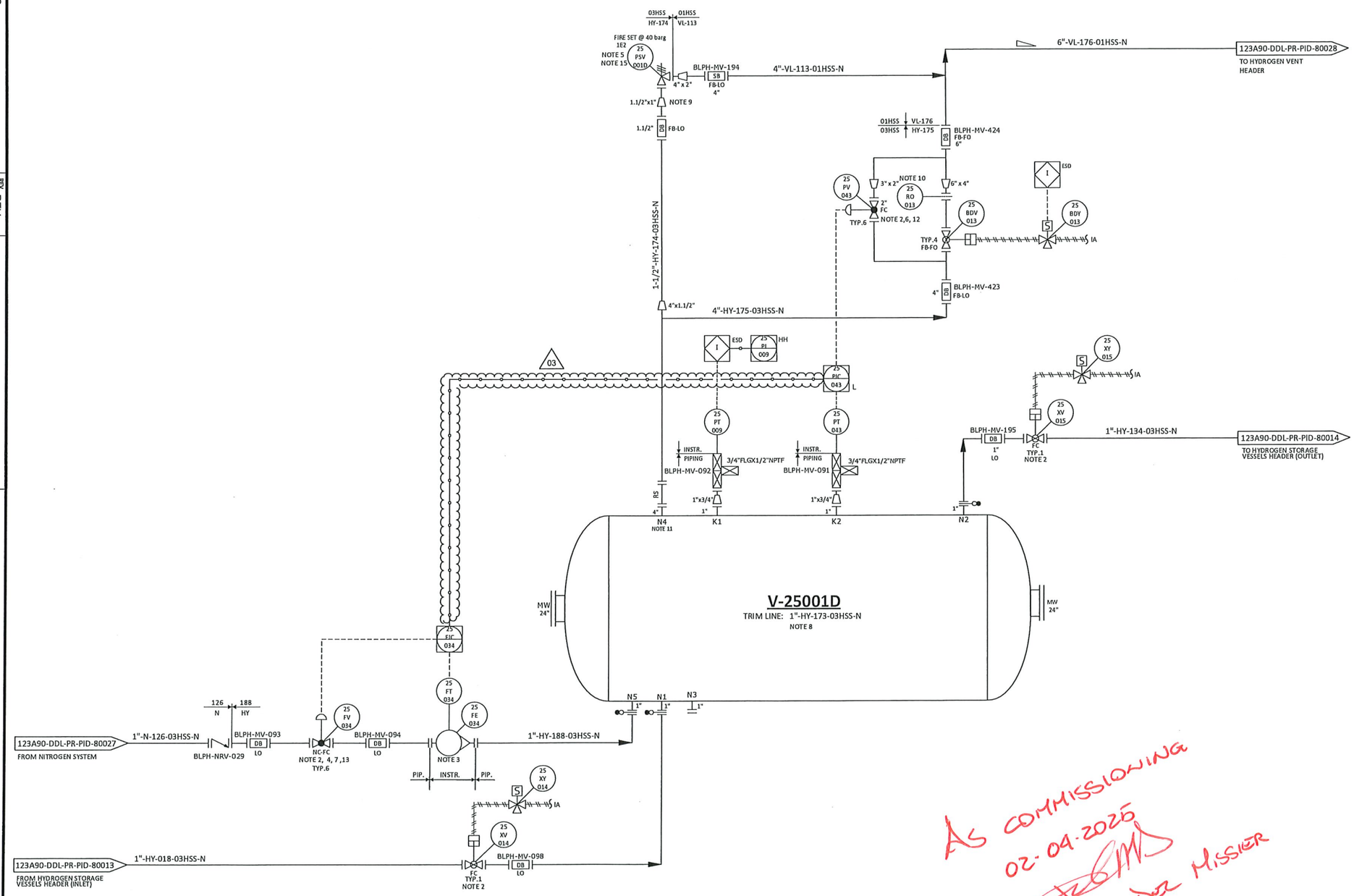
DRAWING NO. DRAWING_NO.

REV. REV

V-25001 D

HYDROGEN STORAGE VESSEL

SIZE : 2800 mm (ID) X 15500 mm (L T/T)
DESIGN P/T : 40 barg / -10 / 80 °C
MATERIAL : CARBON STEEL
OPERATING P/T : 30 barg / AMB



NOTES

1. DELETED.
2. TIGHT SHUT OFF VALVE.
3. VARIABLE AREA FLOWMETER TO BE INSTALLED VERTICALLY WITH DIRECTION OF FLOW UPWARDS. 03
4. NITROGEN CONTROL VALVE (25-FV-034) CAN NOT OPEN UNTIL THE PRESSURE WITHIN THE VESSEL IS BELOW THE NITROGEN SUPPLY PRESSURE.
5. ONE COMMON UNINSTALLED SPARE PSV FOR ALL VESSELS.
6. FOR PULSE PRESSURE PURGING OF VESSEL WITH HYDROGEN.
7. FOR FLOW PURGING OF VESSEL WITH NITROGEN.
8. FOR DESCRIPTION AND SPECIFICATION OF VESSEL NOZZLE, REFERENCE SHALL BE MADE TO THE TECHNICAL DATA SHEET FOR H2 STORAGE, DOC. N. "123A90-DDL-MAC-DS-50027".
9. REDUCERS TO BE INSTALLED AS CLOSE TO PSV AS POSSIBLE.
10. FOR ORIFICE DIAMETER REFERENCE SHALL BE MADE TO "RELIEF, VENT AND BLOWDOWN REPORT" DOC. N. "123A90-DDL-PR-RE-80030".
11. NOZZLE N4 TO BE INSTALLED AT MINIMUM DISTANCE FROM TANGENT LINE OF THE VESSEL (ON THE OPPOSITE SIDE OF N5 NOZZLE).
12. SOFTWARE INTERLOCK TO PREVENT 25-PV-043 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION AND PROCESS START-UP CHARGING MODE (SEE DOC. "PROCESS CONTROL LOGICS DESCRIPTION" N. 123A90-DDL-IN-RE-40095). CONTROL VALVE 25-PV-043 IS USED ONLY IN CASE OF VESSEL PURGING OR PROCESS START-UP CHARGING MODES. 03
13. SOFTWARE INTERLOCK TO PREVENT 25-FV-034 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION.
14. A TIMER ALARM ON THE H2 PRESSURIZATION SECTION OF THE PURGE CYCLE IN THE CONTROL LOGIC IS PROVIDED TO DETERMINE IF THE PURGE VALVE 25-PV-043 HAS FAILED TO CLOSE.
15. 25-PSV-001D SIZED FOR FIRE.

HOLDS

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

As commissioning
02.09.2025
Giandonato Del 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 STORAGE VESSEL D

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-80018		SHEET 001	REV. 03

File Name : FILE_NAME

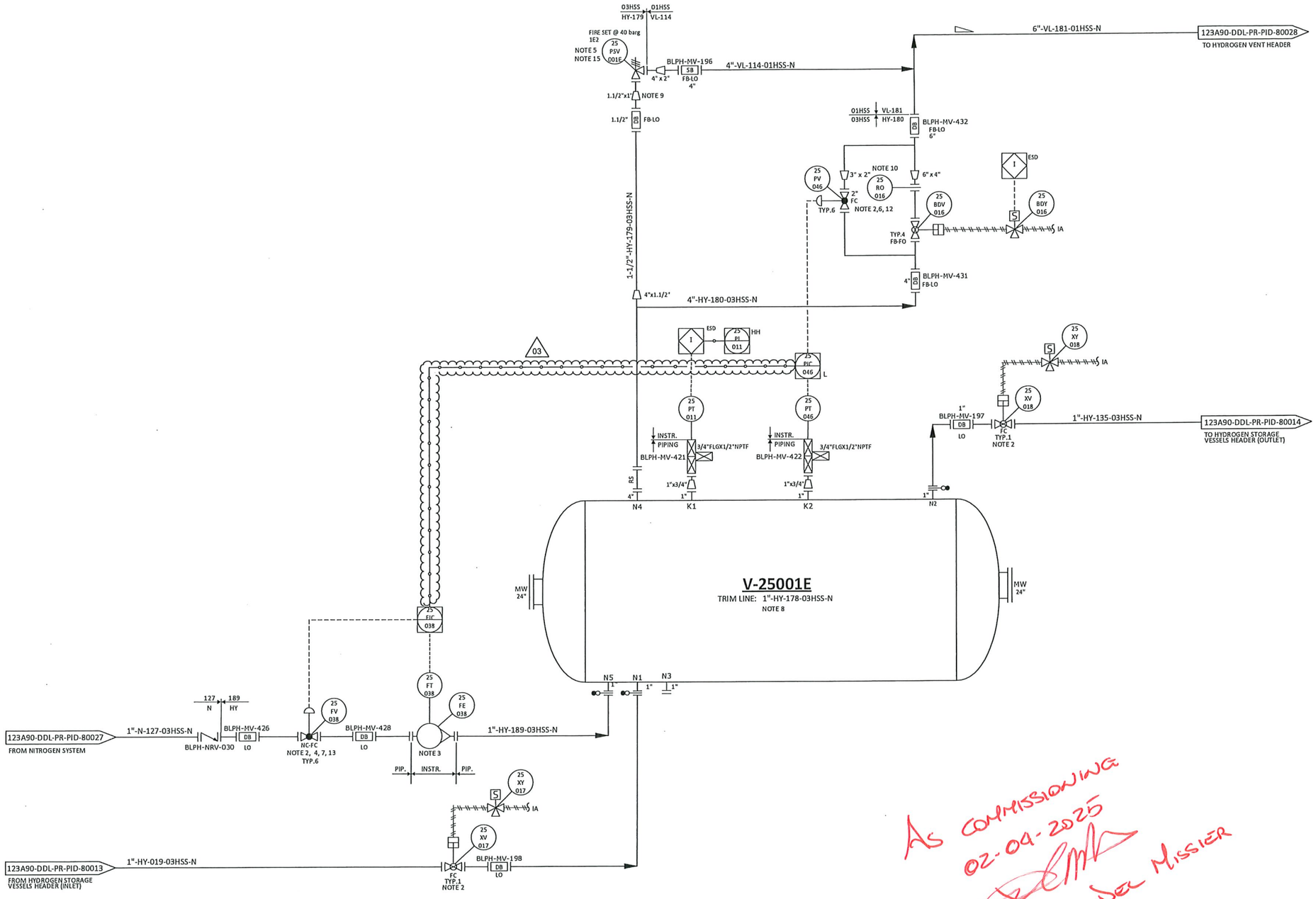
DRAWING NO. DRAWING_NO.

REV. REV

V-25001 E

HYDROGEN STORAGE VESSEL

SIZE : 2800 mm (ID) X 15500 mm (L T/T)
DESIGN P/T : 40 barg / -10 / 80 °C
MATERIAL : CARBON STEEL
OPERATING P/T : 30 barg / AMB



NOTES

1. DELETED.
2. TIGHT SHUT OFF VALVE.
3. VARIABLE AREA FLOWMETER TO BE INSTALLED VERTICALLY WITH DIRECTION OF FLOW UPWARDS. 03
4. NITROGEN CONTROL VALVE (25-FV-038) CAN NOT OPEN UNTIL THE PRESSURE WITHIN THE VESSEL IS BELOW THE NITROGEN SUPPLY PRESSURE.
5. ONE COMMON UNINSTALLED SPARE PSV FOR ALL VESSELS.
6. FOR PULSE PRESSURE PURGING OF VESSEL WITH HYDROGEN.
7. FOR FLOW PURGING OF VESSEL WITH NITROGEN.
8. FOR DESCRIPTION AND SPECIFICATION OF VESSEL NOZZLE, REFERENCE SHALL BE MADE TO THE TECHNICAL DATA SHEET FOR H2 STORAGE, DOC. N. "123A90-DDL-MAC-DS-50027".
9. REDUCERS TO BE INSTALLED AS CLOSE TO PSV AS POSSIBLE.
10. FOR ORIFICE DIAMETER REFERENCE SHALL BE MADE TO "RELIEF, VENT AND BLOWDOWN REPORT" DOC. N. "123A90-DDL-PR-RE-80030".
11. NOZZLE N4 TO BE INSTALLED AT MINIMUM DISTANCE FROM TANGENT LINE OF THE VESSEL (ON THE OPPOSITE SIDE OF N5 NOZZLE).
12. SOFTWARE INTERLOCK TO PREVENT 25-PV-046 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION AND PROCESS START-UP CHARGING MODE (SEE DOC. "PROCESS CONTROL LOGICS DESCRIPTION" N. 123A90-DDL-IN-RE-40095). CONTROL VALVE 25-PV-046 IS USED ONLY IN CASE OF VESSEL PURGING OR PROCESS START-UP CHARGING MODES. 03
13. SOFTWARE INTERLOCK TO PREVENT 25-FV-038 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION.
14. A TIMER ALARM ON THE H2 PRESSURIZATION SECTION OF THE PURGE CYCLE IN THE CONTROL LOGIC IS PROVIDED TO DETERMINE IF THE PURGE VALVE 25-PV-046 HAS FAILED TO CLOSE.
15. 25-PSV-001E SIZED FOR FIRE.

HOLDS

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

As commissioning
02-09-2025
Giandonato Del 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 STORAGE VESSEL E

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-80019		SHEET 001	REV. 03

File Name : FILE_NAME

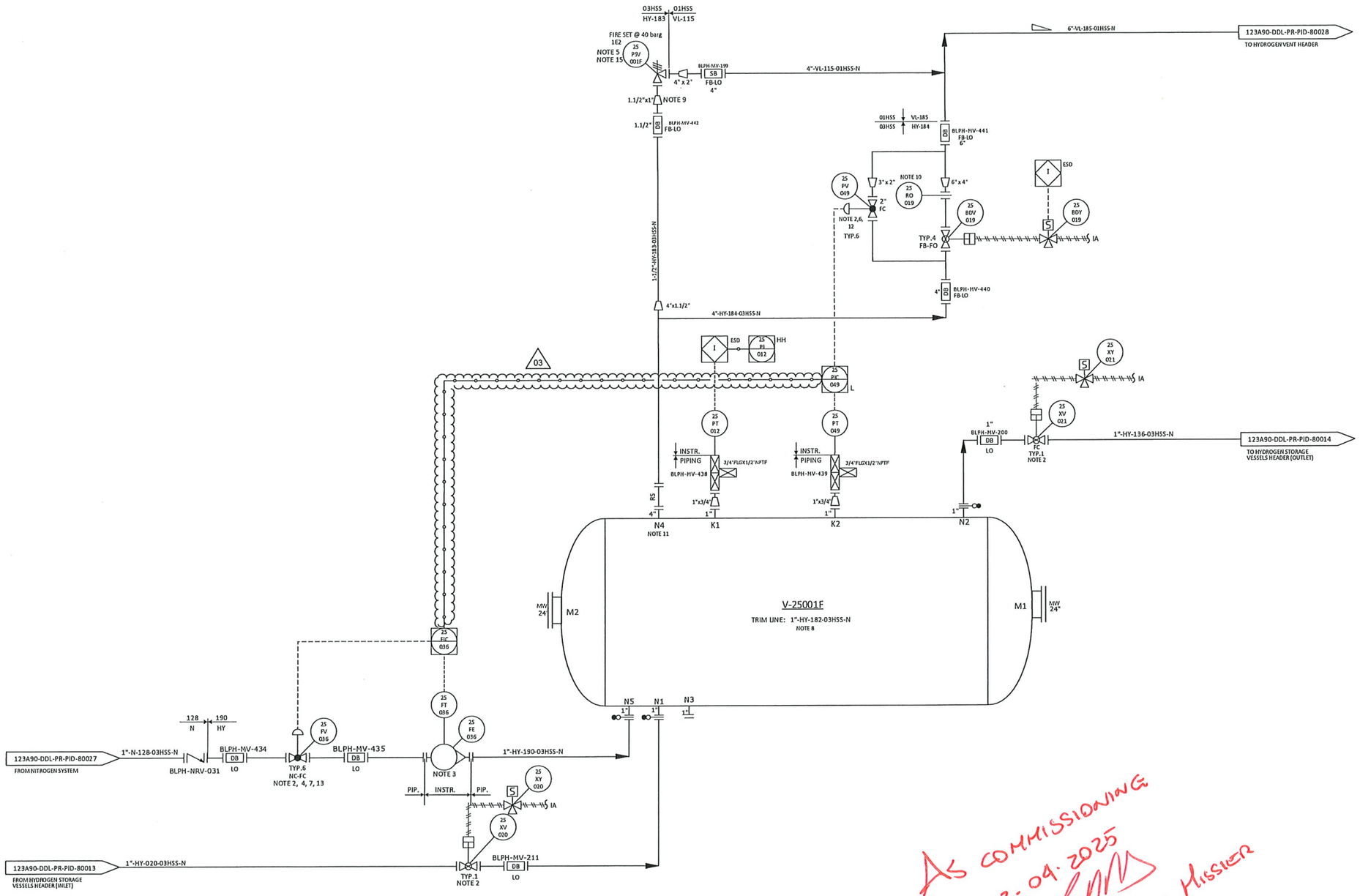
DRAWING NO. DRAWING_NO.

REV. REV

V-25001 F

HYDROGEN STORAGE VESSEL

SIZE : 2800 mm (ID) X 15500 mm (L T/T)
DESIGN P/T : 40 barg / -10 / 80 °C
MATERIAL : CARBON STEEL
OPERATING P/T : 30 barg / AMB



NOTES

1. DELETED.
2. TIGHT SHUT OFF VALVE.
3. VARIABLE AREA FLOWMETER TO BE INSTALLED VERTICALLY WITH DIRECTION OF FLOW UPWARDS. 03
4. NITROGEN CONTROL VALVE (25-FV-036) CAN NOT OPEN UNTIL THE PRESSURE WITHIN THE VESSEL IS BELOW THE NITROGEN SUPPLY PRESSURE.
5. ONE COMMON UNINSTALLED SPARE PSV FOR ALL VESSELS.
6. FOR PULSE PRESSURE PURGING OF VESSEL WITH HYDROGEN.
7. FOR FLOW PURGING OF VESSEL WITH NITROGEN.
8. FOR DESCRIPTION AND SPECIFICATION OF VESSEL NOZZLE, REFERENCE SHALL BE MADE TO THE TECHNICAL DATA SHEET FOR H2 STORAGE, DOC. N. "123A90-DDL-MAC-DS-50027".
9. REDUCERS TO BE INSTALLED AS CLOSE TO PSV AS POSSIBLE.
10. FOR ORIFICE DIAMETER REFERENCE SHALL BE MADE TO "RELIEF, VENT AND BLOWDOWN REPORT" DOC. N. "123A90-DDL-PR-RE-80030".
11. NOZZLE N4 TO BE INSTALLED AT MINIMUM DISTANCE FROM TANGENT LINE OF THE VESSEL (ON THE OPPOSITE SIDE OF N5 NOZZLE).
12. SOFTWARE INTERLOCK TO PREVENT 25-PV-049 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION AND PROCESS START-UP CHARGING MODE (SEE DOC. "PROCESS CONTROL LOGICS DESCRIPTION" N. 123A90-DDL-IN-RE-40095). CONTROL VALVE 25-PV-049 IS USED ONLY IN CASE OF VESSEL PURGING OR PROCESS START-UP CHARGING MODES. 03
13. SOFTWARE INTERLOCK TO PREVENT 25FV036 BEING OPENED OUTSIDE OF A PURGE CYCLE OPERATION.
14. A TIMER ALARM ON THE H2 PRESSURIZATION SECTION OF THE PURGE CYCLE IN THE CONTROL LOGIC IS PROVIDED TO DETERMINE IF THE PURGE VALVE 25-PV-049 HAS FAILED TO CLOSE.
15. 25-PSV-001F SIZED FOR FIRE.

HOLDS

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

As commissioning
02.09.2025
Giandonato De 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 HAZOP (IFA)
00	20/10/2023	CIM	RZI	DLO	ISSUE FOR ACCEPTANCE (IFA)

CROSSWIND

ROSETTI MARINO

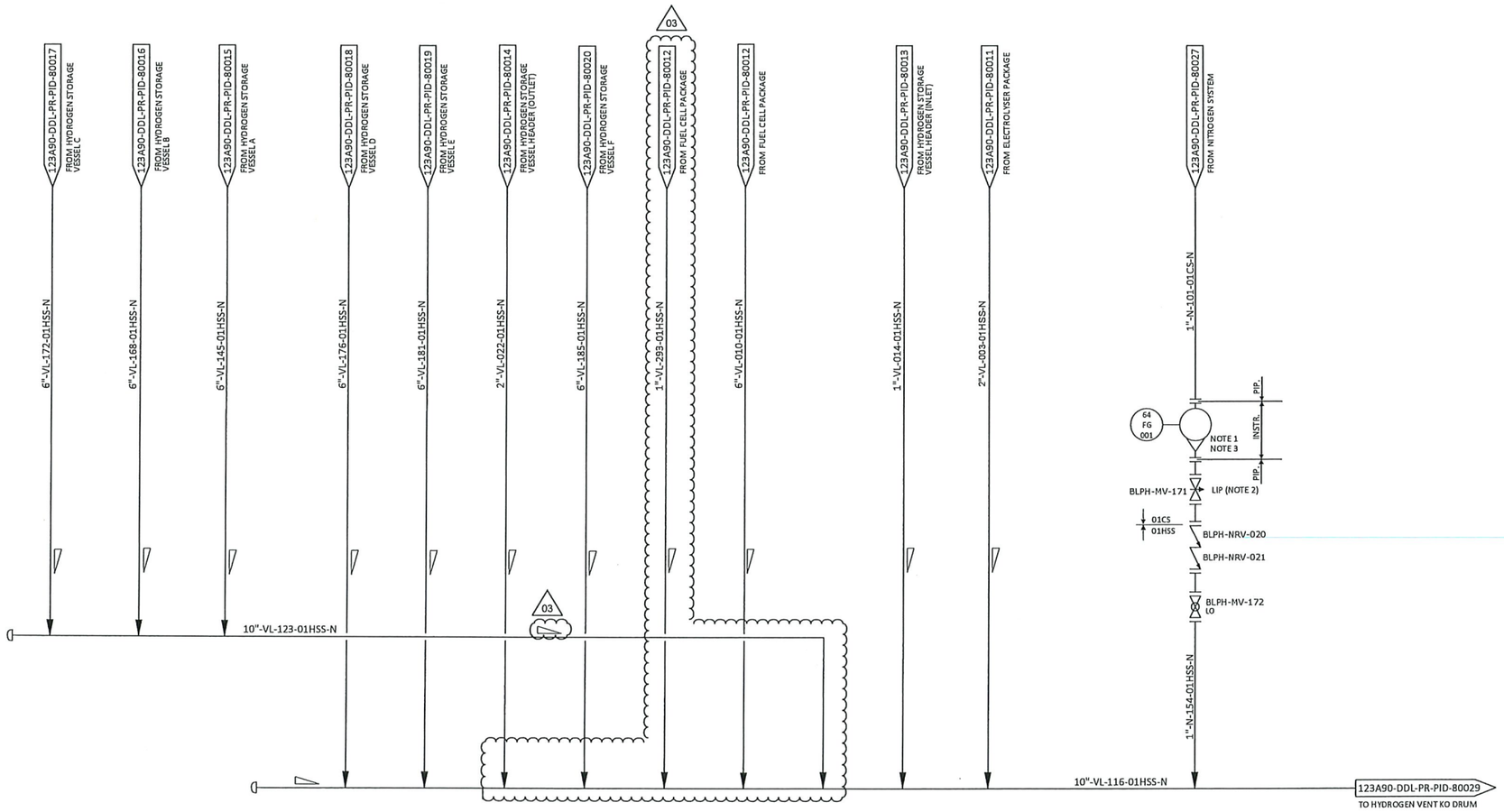
TITLE :
BLPH PIPING AND INSTRUMENTATION DIAGRAM
HYDROGEN STORAGE VESSEL F

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-80020			SHEET 001	REV. 03

File Name : FILE_NAME

DRAWING NO. DRAWING_NO.

REV. REV



NOTES

1. FLOW METER 64-FG-001 SHALL BE READABLE FROM MANUAL VALVE MV-171.
2. VALVE BLPH-MV-171 TO BE LOCKED IN PLACE.
3. VERTICAL INSTALLATION.

HOLDS

1. DELETED.
2. DELETED.

As Commissioning
03-04-2025
Giandonato Da 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 HEADER

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-80028		SHEET 001	REV. 03

File Name : FILE_NAME

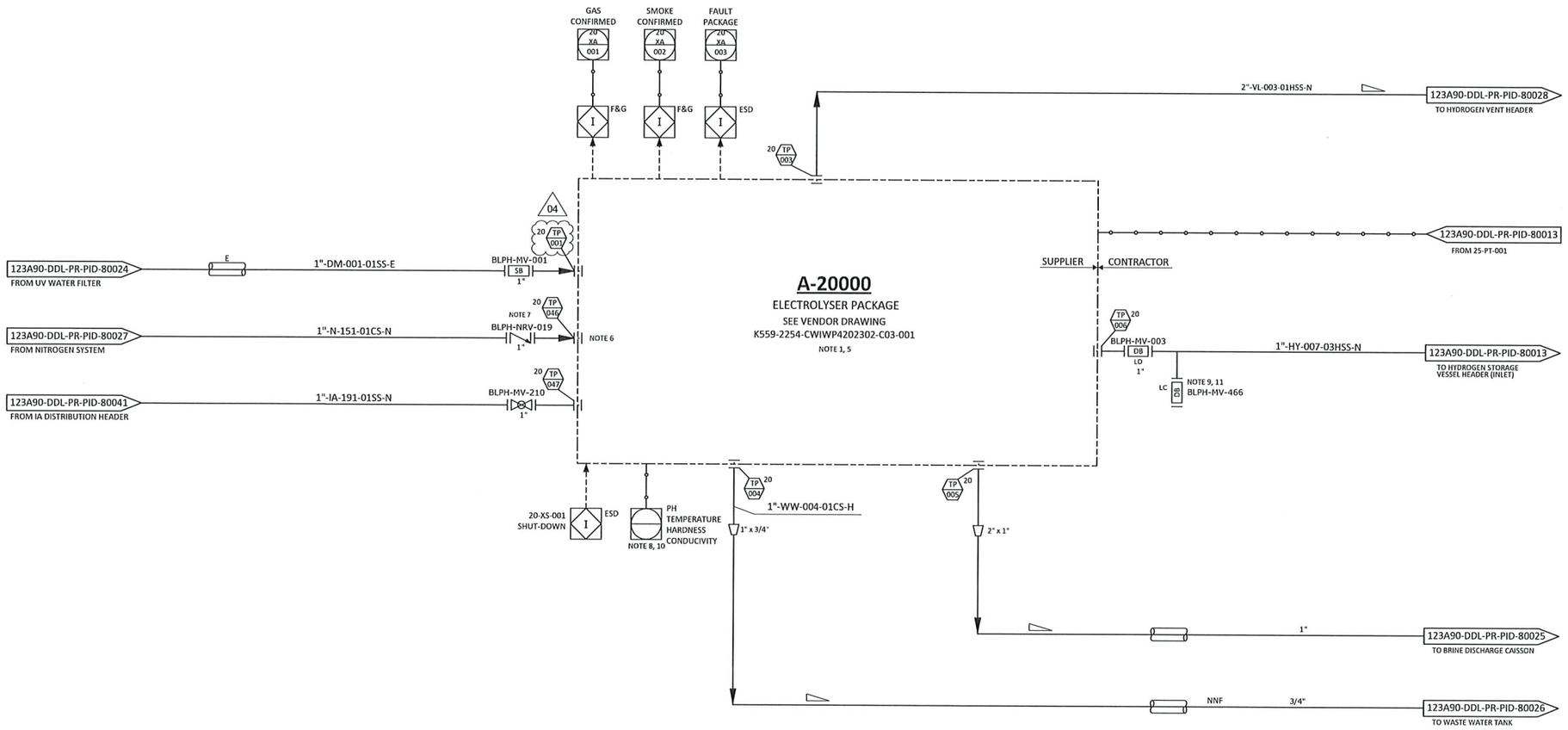
DRAWING NO. DRAWING_NO.

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

Section 3 CONSOLIDATED PUNCH LISTS

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System

SUBSYSTEM 64-10 Nitrogen Distribution Network

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003202	A	035-1-J1 C10004226	The Instrument is in AISI 316 but the line is in CS. The isometric requires no insulation kit and flange management has been completed such as. But	.		KAlbonetti 2025-01-25	2025-02-19	KAlbonetti 2025-02-19	2025-02-19
C30003203	A	035-1-J2 C10004227	The Instrument is in AISI 316 but the line is in CS. The isometric requires no insulation kit and flange management has been completed such as. But	.		KAlbonetti 2025-01-25	2025-02-19	KAlbonetti 2025-02-19	2025-02-19
C30003577	A	64-10-TP-023 C10003407	Flange management activity to be done on joint J5 (BLPH-MV-167). Broken joint done without authorization	.		AMancini 2025-02-06	2025-02-20	LNovaga 2025-02-20	2025-02-20
C30003615	A	64-10-TP-023 C10003407	Check Valve BLPH-NRV-019 has no flow direction market visibly on its body. It is not possibile to confirm it has been mounted correctly	.		LNovaga 2025-02-08	2025-02-28	KAlbonetti 2025-02-28	2025-02-28
C30003681	A	64-10-TP-047 C10003591	Earthing lug totally painted.	.		KAlbonetti 2025-02-11	2025-02-26	KAlbonetti 2025-02-26	2025-02-26
C30001618	B	64-10-TP-051 C10003609	Spool has not been installed in erection. Inspection points from 4 to 6 of the "Inspection before testing" to be checked during	.		KAlbonetti 2024-12-10	2025-01-16	LNovaga 2025-01-16	2025-01-16
C30001846	B	64-10-TP-020 C10003381	Position F1 of the support PS-0358 has Horizontal misalignment.	-		MBruschi 2024-12-13	2025-02-08	LNovaga 2025-02-08	2025-02-08
C30001848	B	64-10-TP-020 C10003381	Position F1 of the support PS-03600 has horizontal misalignment.	-		MBruschi 2024-12-13	2025-02-08	LNovaga 2025-02-08	2025-02-08
C30001852	B	64-10-TP-020 C10003381	All supports S-211 need to check the gap, isolation rubber, ptfe bounded and lock nut in the reinstatement phase.	-		MBruschi 2024-12-13	2025-02-08	LNovaga 2025-02-08	2025-02-08

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System
SUBSYSTEM 64-10 Nitrogen Distribution Network

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001899	B	64-10-TP-020 C10003381	Support PS-02012 not assembled in erection. (Due lack of Valves' positioning)	.		KAlbonetti 2024-12-16	2025-02-08	LNovaga 2025-02-08	2025-02-08
C30001900	B	64-10-TP-020 C10003381	Support PS-02016 not assembled in erection.	.		KAlbonetti 2024-12-16	2025-02-08	LNovaga 2025-02-08	2025-02-08
C30001901	B	64-10-TP-020 C10003381	Support PS-02020 not assembled in erection.	.		KAlbonetti 2024-12-16	2025-02-08	LNovaga 2025-02-08	2025-02-08
C30001904	B	64-10-TP-020 C10003381	Support PS-03014 not assembled in erection.	.		KAlbonetti 2024-12-16	2025-02-08	LNovaga 2025-02-08	2025-02-08
C30001909	B	64-10-TP-020 C10003381	Support PS-03037 not assembled in erection.	.		KAlbonetti 2024-12-16	2025-02-08	LNovaga 2025-02-08	2025-02-08
C30001910	B	64-10-TP-020 C10003381	Support PS-03047 not assembled in erection.	.		KAlbonetti 2024-12-16	2025-02-08	LNovaga 2025-02-08	2025-02-08
C30002117	B	64-10-TP-023 C10003406	SK.34 (2/2): Position F2 of piping support PS-02095 is actually a HEA120 instead of UPN120.	.	Changes have been recorded on RLMUs	KAlbonetti 2024-12-20	RDegliEsposti 2025-06-25	RDegliEsposti 2025-06-25	2025-06-25
C30002118	B	64-10-TP-023 C10003406	For all supports type S-211 the isolating ruber, the gap, the lock nuts and the washers shall be checked again during reinstatement because they	.		KAlbonetti 2024-12-20	2025-02-19	KAlbonetti 2025-02-19	2025-02-19
C30002135	B	64-10-TP-023 C10003406	Sk.66 (Sh.1/1): Support PS-01031.2: there is no STD S-211 and the structural part has not been drilled yet.	.		KAlbonetti 2024-12-24	2025-02-19	KAlbonetti 2025-02-19	2025-02-19

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System
SUBSYSTEM 64-10 Nitrogen Distribution Network

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002136	B	64-10-TP-023 C10003406	SK.034 (SH.1/2) spools A and B; SK.097 (SH.1/1) Spools A and B: these spools are moved +40 mm eastward. Alignement of supports and connection	.		KAlbonetti 2024-12-24	2025-02-19	KAlbonetti 2025-02-19	2025-02-19
C30002137	B	64-10-TP-023 C10003406	Sk.34 (Sh.1/2): Support PS-01025.3: position R1 has not been assembled yet.	.		KAlbonetti 2024-12-24	2025-02-19	KAlbonetti 2025-02-19	2025-02-19
C30002145	B	64-10-TP-023 C10003406	SK.062 (SH.2/2) spool D: Flange joint J3 has been only temporary tightened. Flange management to be done during reinstatement.	.		KAlbonetti 2024-12-24	2025-02-19	KAlbonetti 2025-02-19	2025-02-19
C30002146	B	64-10-TP-023 C10003406	SK.062 (SH.2/2) spool G: between supports PS-03123.1 and PS-03122.1 the pipe is bended.	.		KAlbonetti 2024-12-24	2025-03-11	LNovaga 2025-03-11	2025-03-11
C30002147	B	64-10-TP-023 C10003406	SK.062 (SH.2/2) Spool F: earthing plate W24. Position from W26 shall be changed from 638 mm to 350 mm.	.		KAlbonetti 2024-12-24	2025-04-02	LNovaga 2025-04-02	2025-04-02
C30002155	B	64-10-TP-023 C10003406	SK.062 (SH.2/2) the support PS-02094.1 has been mounted and welded with a clockwise turn of 90°. In addition the L profile is shorter of 15	.		KAlbonetti 2024-12-24	2025-02-27	LNovaga 2025-02-27	2025-02-27
C30002337	B	64-10-TP-047 C10003589	SK.065 (SH.1/1): For PS-02024.1 the position R1 has not been installed yet. The support is also 5 mm shorter.	.		KAlbonetti 2025-01-03	2025-02-14	LNovaga 2025-02-14	2025-02-14
C30002339	B	64-10-TP-047 C10003589	Spool has not been installed in erection. Inspection point n.5 of the ITR to be checked during reinstatement.	.		KAlbonetti 2025-01-03	2025-02-14	LNovaga 2025-02-14	2025-02-14
C30003465	B	64-10-TP-051 C10003610	Standard S-211 on the support "PS-01009" must have 2mm of gap.	.		MBruschi 2025-02-03	2025-02-11	KAlbonetti 2025-02-11	2025-02-11

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System
SUBSYSTEM 64-10 Nitrogen Distribution Network

Piping

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003550	B	64-10-TP-023 C10003408	Color coding and fluid direction are missing.	.		KAlbonetti 2025-02-05	2025-03-21	LNovaga 2025-03-21	2025-03-21
C30003551	B	64-10-TP-023 C10003408	General touch up do to, especially near the supports of the piping line.	.		KAlbonetti 2025-02-05	2025-04-17	LNovaga 2025-04-17	2025-04-17
C30003558	B	64-10-TP-051 C10003611	Color coding and fluid direction are missing.	.		KAlbonetti 2025-02-05	2025-03-25	LNovaga 2025-03-25	2025-03-25
C30003559	B	64-10-TP-051 C10003611	General touch up do to, especially near the supports of the piping line.	.		KAlbonetti 2025-02-05	2025-04-11	LNovaga 2025-04-11	2025-04-11
C30003578	B	64-10-TP-023 C10003408	The valve BLPH-MV-386 has drain plug not painted.	.		KAlbonetti 2025-02-06	2025-04-17	LNovaga 2025-04-17	2025-04-17
C30003672	B	64-10-TP-020 C10003383	Several touch-ups to be still made.	.		KAlbonetti 2025-02-11	2025-02-28	LNovaga 2025-02-28	2025-02-28
C30003678	B	64-10-TP-047 C10003591	Color coding and fluid direction are missing.	.		KAlbonetti 2025-02-11	2025-03-21	LNovaga 2025-03-21	2025-03-21
C30004168	B	64-10-TP-023 C10003406	Check Valve BLPH-NRV-019 has no flow direction market visibly on its body.	.		KAlbonetti 2025-02-28	2025-04-09	LNovaga 2025-04-09	2025-04-09
C30004169	B	64-10-TP-047 C10003590	Earthing lug on TP-47 (Sk.65) has been connected to two different earthing cables. Disconnect one and put to earth on structure or	.		KAlbonetti 2025-02-28	2025-03-26	Gtangianu 2025-03-26	2025-03-26

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System
SUBSYSTEM 64-10 Nitrogen Distribution Network

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003216	B	C-64-ZSL-031B/ 00-JE-12006 C10000109	Missing cable tag SS , near the JB 00-JE-12006	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003217	B	C-64-ZSL-031B/ 00-JE-12006 C10000109	Wrong cores identification tag. side J.B. 00-JE-12006 . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003218	B	C-64-ZSH-031B/ 00-JE-12006 C10000110	Wrong cores identification tag. side J.B. 00-JE-12006 . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003219	B	C-64-ZSH-031B/ 00-JE-12006 C10000110	Missing cable tag SS , near the JB 00-JE-12006.	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003220	B	C-64-PY-031A/0 0-JE-11004 C10000055	Wrong cores identification tag. side J.B. 00-JE-11004 . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003221	B	C-64-PY-031B/0 0-JE-11004 C10000056	Wrong cores identification tag. side J.B. 00-JE-11004 . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003222	B	C-64-ZT-031A/0 0-JE-11005 C10000059	Wrong cores identification tag. side J.B. 00-JE-11005 . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003223	B	C-64-ZT-031A/0 0-JE-11005 C10000059	Missing cable tag SS , near the JB 00-JE-11005	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003224	B	C-64-ZT-031A/0 0-JE-11005 C10000059	Wrong cores identification tag. side 64-ZT-031A . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System
SUBSYSTEM 64-10 Nitrogen Distribution Network

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003225	B	C-64-ZT-031B/00-JE-11005 C10000060	Wrong cores identification tag. side J.B. 00-JE-12005 / stru. 64-ZT-031B . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003226	B	C-64-ZT-031B/00-JE-11005 C10000060	Missing cable tag SS , near the JB 00-JE-11005	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003227	B	C-64-ZSL-031A/00-JE-12006 C10000107	Missing cable tag SS , near the JB 00-JE-12006	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003228	B	C-64-ZSL-031A/00-JE-12006 C10000107	Wrong cores identification tag. side J.B. 00-JE-12006 . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003229	B	C-64-ZSH-031A/00-JE-12006 C10000108	Wrong cores identification tag. side J.B. 00-JE-12006 . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003230	B	C-64-ZSH-031A/00-JE-12006 C10000108	Missing cable tag SS , near the JB 00-JE-12006	.		APolo 2025-01-27	2025-01-29	APolo 2025-01-29	2025-01-29
C30003232	B	64-ZSHL-031B C10002030	The visual indicator cover (limit switch ZSHL) is damaged. To be replaced	.		APolo 2025-01-28	2025-03-25	Gtangianu 2025-03-25	2025-03-25
C30003236	B	64-PV-031A C10001193	Missing suitable Plug "on Air set Filter".	.		APolo 2025-01-28	2025-03-25	Gtangianu 2025-03-25	2025-03-25
C30003238	B	64-PV-031B C10001194	Missing suitable Plug "on Air set Filter".	.		APolo 2025-01-28	2025-03-26	Gtangianu 2025-03-26	2025-03-26

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System
SUBSYSTEM 64-10 Nitrogen Distribution Network

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003570	B	C-64-SDY-001/00-JE-23002 C10001839	The cable installed is temporary. To be replaced	.		APolo 2025-02-05	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30003580	B	C-64-PT-002/00-JE-21002 C10000139	The cable (between external cable tray and instrument) to be dressed/fixed properly.	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003581	B	64-PT-002 C10000912	Missing traffolyte tag side instrument	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003588	B	64-PT-002 C10000912	Missing tag SS , on the instrument.	.		APolo 2025-02-07	2025-02-21	AAndreani 2025-02-21	2025-02-21
C30003589	B	64-PT-002 C10000912	The earthing cable of the instrument to be connected and dressed/fixed properly.	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003590	B	C-64-PT-031B/00-JE-11004 C10000054	The cable (between external cable tray and instrument) to be dressed/fixed properly.	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003591	B	64-PT-031B C10000914	The earthing cable of the instrument to be connected and dressed/fixed properly.	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003592	B	64-PT-031B C10000914	Missing traffolyte tag side instrument	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003593	B	64-PT-031B C10000914	Missing tag SS , on the instrument.	.		APolo 2025-02-07	2025-02-21	AAndreani 2025-02-21	2025-02-21

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System
SUBSYSTEM 64-10 Nitrogen Distribution Network

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003598	B	C-64-PT-031A/00-JE-11004 C10000053	The cable (between external cable tray and instrument) to be dressed/fixed properly.	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003599	B	64-PT-031A C10000913	Missing traffolyte tag side instrument	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003600	B	64-PT-031A C10000913	Missing tag SS , on the instrument.	.		APolo 2025-02-07	2025-02-21	AAndreani 2025-02-21	2025-02-21
C30003601	B	64-PT-031A C10000913	The earthing cable of the instrument to be connected and dressed/fixed properly.	.		APolo 2025-02-07	2025-02-13	AAndreani 2025-02-13	2025-02-13
C30003639	B	64-PSV-001 C10001191	Touch-up is required	.		GBertuccelli 2025-02-10	2025-04-18	LNovaga 2025-04-18	2025-04-18
C30004398	B	64-PT-002 C10003186	ISSUE RELATED TO INSTRUMENT CALIBRATION	INSTRUMENT UNINSTALLED AND SENT TO VENDOR TERRANOVA FOR ANALYSIS & REPAIR	Instruments sent to TERRANOVA - To be closed after sail away	Alveson 2025-07-23	RDegliEsposti 2025-08-01	RDegliEsposti 2025-08-01	2025-08-01

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System

SUBSYSTEM 64-10 Nitrogen Distribution Network

ATEX

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003421	B	64-SDV-001 C10001617	Scratch on painting, general touch-up to be performed	.		Lmussi 2025-01-31	2025-04-08	LNovaga 2025-04-08	2025-04-08
C30003422	B	64-SDV-001 C10001617	On ATEX register (123A90-DDL-EL-LIS-20094 sheet 7) Manufacturer, Atex certificate, Atex marking etc. are missing or wrong.	.	The ATEX Register issued by FLUITEK has been updated and now reflects the	Lmussi 2025-01-31	RDegliEsposti 2025-06-10	RDegliEsposti 2025-06-10	2025-06-10
C30003462	B	64-PG-001 C10004848	Equipment ATEX label is missing	.		Lmussi 2025-02-01	2025-04-09	LNovaga 2025-04-09	2025-04-09
C30003463	B	64-PG-001 C10004848	Equipment tag plate is missing	.		Lmussi 2025-02-01	2025-02-16	Lmussi 2025-02-16	2025-02-16
C30003498	B	64-PSV-001_1 C10004852	Equipment ATEX identification label is missing	.		Lmussi 2025-02-03	2025-04-24	Gtangianu 2025-04-24	2025-04-24
C30003499	B	64-PSV-001_1 C10004852	ATEX Declaration of Conformity by Manufacturer is missing	.		Lmussi 2025-02-03	2025-04-24	Gtangianu 2025-04-24	2025-04-24
C30003500	B	64-PSV-001_1 C10004852	Equipment tag plate is missing	.		Lmussi 2025-02-03	2025-02-16	Lmussi 2025-02-16	2025-02-16
C30003501	B	64-PSV-001_1 C10004852	On ATEX register (123A90-DDL-EL-LIS-20094) equipment is missing	.	The ATEX Register issued by FLUITEK has been updated and now reflects the	Lmussi 2025-02-03	RDegliEsposti 2025-06-10	RDegliEsposti 2025-06-10	2025-06-10
C30003562	B	64-ZSHL-001 C10002042	Doc: document 123A90-DDL-EL-LIS-20094 does not report what was installed in the field (see picture)	.	The ATEX Register issued by FLUITEK has been updated and now reflects the	APolo 2025-02-05	RDegliEsposti 2025-06-10	RDegliEsposti 2025-06-10	2025-06-10

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 64 Nitrogen System

SUBSYSTEM 64-10 Nitrogen Distribution Network

ATEX

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003571	B	64-SDY-001 C10002041	Missing tag SS , on Solenoid Valve.	.		APolo 2025-02-05	2025-02-21	AAndreani 2025-02-21	2025-02-21
C30003572	B	64-SDY-001 C10002041	Doc: document 123A90-DDL-EL-LIS-20094 does not report what was installed in the field (see picture)	.	The ATEX Register issued by FLUITEK has been updated and now reflects the	APolo 2025-02-05	RDegliEsposti 2025-06-10	RDegliEsposti 2025-06-10	2025-06-10
C30004019	B	64-FG-001 C10000911	Vendor to confirm earthing connection method	.		Lmussi 2025-02-19	2025-04-02	Ecarotenuto 2025-04-02	2025-04-02

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004019

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000911	1.4 Discipline	ATEX
1.2 Item	64-FG-001	Flow Gauge - Nitrogen to Hydrogen Vent Header	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Vendor to confirm earthing connection method

Name: Luca Mussi

Date: 2025-02-19

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-02-19
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Confirmed

Name: Eleonora Carotenuto

Date: 2025-04-02

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004168

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003406	1.4 Discipline	Piping
1.2 Item	64-10-TP-023	Test Pack 64-10-TP-023	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Related to PL C30003615. Check Valve BLPH-NRV-019 has no flow direction market visibly on its body.

Name: Kangi Albonetti

Date: 2025-02-28

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	2025-02-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Lorenzo Novaga

Date: 2025-04-09

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004169

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003590	1.4 Discipline	Piping
1.2 Item	64-10-TP-047	Test Pack 64-10-TP-047	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Earthing lug on TP-47 (Sk.65) has been connected to two different earthing cables. Disconnect one and put to earth on structure or keep two but connect them on opposite sides of the lug.

Name: Kangi Albonetti

Date: 2025-02-28

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	2025-02-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

The activity was done.

Name: Giovanni Tangianu

Date: 2025-03-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004398

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003186	1.4 Discipline	Instrumental
1.2 Item	64-PT-002		Pressure Transmitter - Nitrogen to Distribution Header Low Pressure
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

ISSUE RELATED TO INSTRUMENT CALIBRATION

Name: Anthony Iveson
Date: 2025-07-23
Signature:

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal	INSTRUMENT UNINSTALLED AND SENT TO VENDOR TERRANOVA FOR ANALYSIS & REPAIR		
3.2 Material required			
3.3 Priority	B PL B	Name	Anthony Iveson
3.4 Activity code	COMM Commissioning	Date	2025-07-23
3.5 Action by	COMM Commissioning	Signature	

4 - PERFORMED ACTION

Instruments sent to TERRANOVA - To be closed after sail away

Name: Raffaele Degli Esposti
Date: 2025-08-01
Signature:

5 - CLEARANCE CHECK

Instrument received and installed on site in Eemshaven. The instrument cannot be tested after installation at this stage as BLPH is not operative .

Name: Raffaele Degli Esposti
Date: 2025-10-15
Signature:

6- CLEARANCE APPROVAL

Name:
Date: 2025-10-15
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003462

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004848	1.4 Discipline	ATEX
1.2 Item	64-PG-001	Air Set Pressure Gauge Filter - Nitrogen to Distribution Header Shut-Down	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Equipment ATEX label is missing

Name: Luca Mussi

Date: 2025-02-01

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-02-01
3.5 Action by	VND Vendor	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Lorenzo Novaga

Date: 2025-04-09

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003463

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004848	1.4 Discipline	ATEX
1.2 Item	64-PG-001	Air Set Pressure Gauge Filter - Nitrogen to Distribution Header Shut-Down	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Equipment tag plate is missing

Name: Luca Mussi

Date: 2025-02-01

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-02-01
3.5 Action by	VND Vendor	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-02-16

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003465

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003610	1.4 Discipline	Piping
1.2 Item	64-10-TP-051	Test Pack 64-10-TP-051	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Standard S-211 on the support "PS-01009" must have 2mm of gap.

Name: Massimo Bruschi

Date: 2025-02-03

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	2025-02-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Now the gap is acceptable.

Name: Kangi Albonetti

Date: 2025-02-11

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003498

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004852	1.4 Discipline	ATEX
1.2 Item	64-PSV-001_1		Safety Valve - Nitrogen to Distribution Header Shut-Down
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

Equipment ATEX identification label is missing

Name: Luca Mussi

Date: 2025-02-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-02-03
3.5 Action by	VND Vendor	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Equipment ATEX label was installed by vendor on site.

Name: Giovanni Tangianu

Date: 2025-04-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003499

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004852	1.4 Discipline	ATEX
1.2 Item	64-PSV-001_1		Safety Valve - Nitrogen to Distribution Header Shut-Down
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

ATEX Declaration of Conformity by Manufacturer is missing

Name: Luca Mussi

Date: 2025-02-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-02-03
3.5 Action by	VND Vendor	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Declaration of conformity has been provide by vendor.

Name: Giovanni Tangianu

Date: 2025-04-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003500

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004852	1.4 Discipline	ATEX
1.2 Item	64-PSV-001_1		Safety Valve - Nitrogen to Distribution Header Shut-Down
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

Equipment tag plate is missing

Name: Luca Mussi

Date: 2025-02-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-02-03
3.5 Action by	VND Vendor	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-02-16

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003501

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004852	1.4 Discipline	ATEX
1.2 Item	64-PSV-001_1		Safety Valve - Nitrogen to Distribution Header Shut-Down
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

On ATEX register (123A90-DDL-EL-LIS-20094) equipment is missing

Name: Luca Mussi

Date: 2025-02-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-02-03
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

The ATEX Register issued by FLUITEK has been updated and now reflects the equipment actually installed on BLPH. Document 123A90-DDL-EL-LIS-20094 will endorse and confirm the information contained in the updated ATEX Register.

Name: Raffaele Degli Esposti

Date: 2025-06-10

Signature:

5 - CLEARANCE CHECK

Checked during reinstatement phase.

Name: Raffaele Degli Esposti

Date: 2025-06-10

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003550

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003408	1.4 Discipline	Piping
1.2 Item	64-10-TP-023	Test Pack 64-10-TP-023	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Color coding and fluid direction are missing.

Name: Kangi Albonetti

Date: 2025-02-05

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	2025-02-05
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-03-21

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003551

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003408	1.4 Discipline	Piping
1.2 Item	64-10-TP-023	Test Pack 64-10-TP-023	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

General touch up do to, especially near the supports of the piping line.

Name: Kangi Albonetti

Date: 2025-02-05

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	2025-02-05
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-04-17

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-04-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-04-17

Signature:


AV-63005/64-PV

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003558

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003611	1.4 Discipline	Piping
1.2 Item	64-10-TP-051	Test Pack 64-10-TP-051	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Color coding and fluid direction are missing.

Name: Kangi Albonetti

Date: 2025-02-05

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	2025-02-05
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-03-25

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003559

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003611	1.4 Discipline	Piping
1.2 Item	64-10-TP-051	Test Pack 64-10-TP-051	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

General touch up do to, especially near the supports of the piping line.

Name: Kangi Albonetti

Date: 2025-02-05

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	2025-02-05
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-04-11

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-04-11

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-04-11

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003562

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002042	1.4 Discipline	ATEX
1.2 Item	64-ZSHL-001	Limit Switch box- Nitrogen to Distribution Header Shut-Down	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Doc: document 123A90-DDL-EL-LIS-20094 does not report what was installed in the field (see picture)

Name: Alessio Polo

Date: 2025-02-05

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-05
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

The ATEX Register issued by FLUITEK has been updated and now reflects the equipment actually installed on BLPH. Document 123A90-DDL-EL-LIS-20094 will endorse and confirm the information contained in the updated ATEX Register.

Name: Raffaele Degli Esposti

Date: 2025-06-10

Signature:

5 - CLEARANCE CHECK

Checked during reinstatement phase.

Name: Raffaele Degli Esposti

Date: 2025-06-10

Signature:

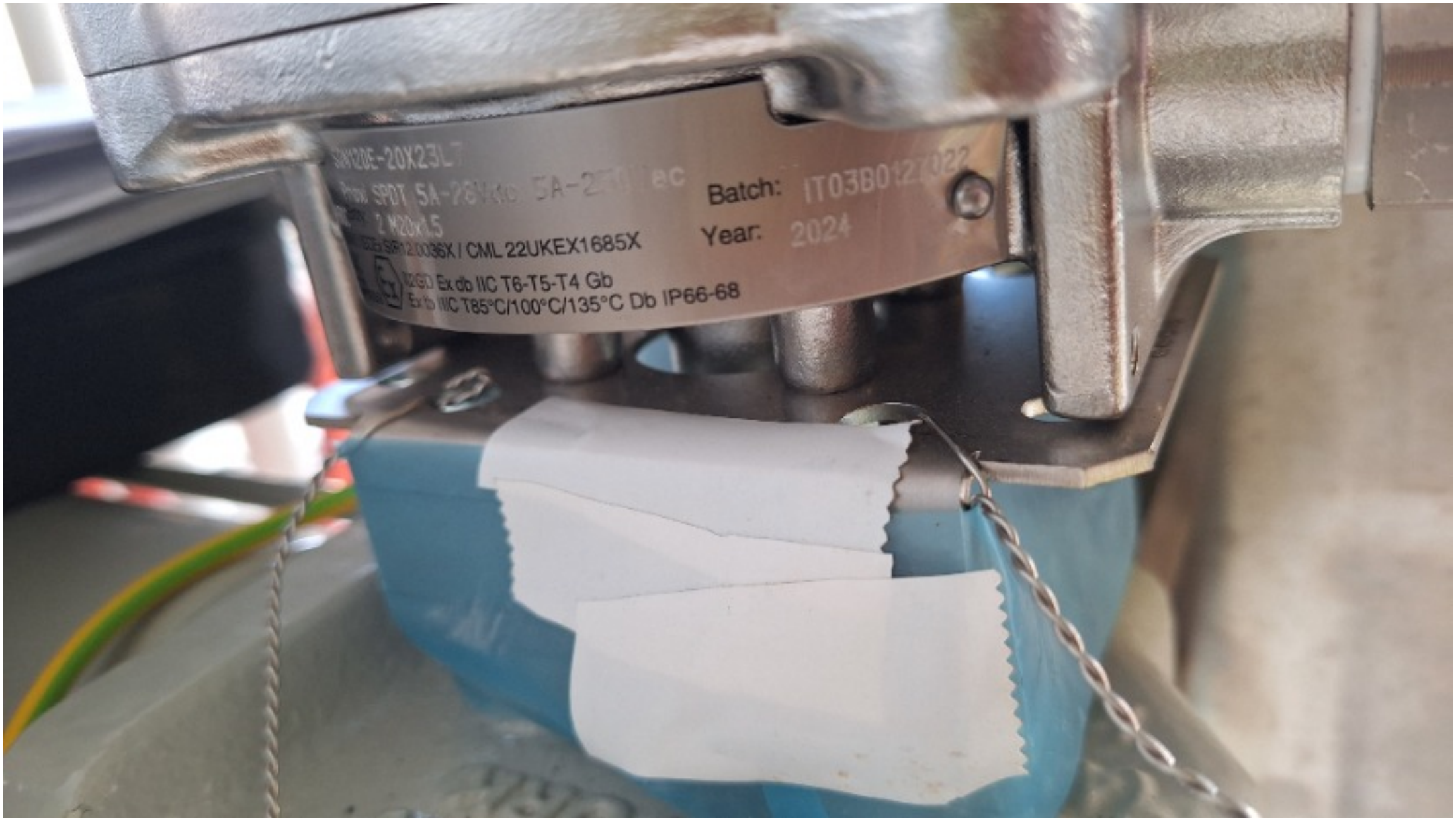
6- CLEARANCE APPROVAL

Name:

Date:

Signature:

64-ZSH-001
64-ZSL-001


SPDT 5A-28Vdc
Batch:
Year: 2024
Ex db IIC T6-T5-T4 Gb
Ex tb IIIC T85°C/100°C/135°C Db IP66-68


Batch:
Year: 2024
SIR12.0036X / CML 22UKEX1685X
II2GD Ex db IIC T6-T5-T4 Gb
Ex tb IIIC T85°C/100°C/135°C Db IP66-68

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003570

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001839	1.4 Discipline	Instrumental
1.2 Item	C-64-SDY-001/00-JE-23002	SOLENOID VALVE / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

The cable installed is temporary. To be replaced

Name: Alessio Polo

Date: 2025-02-05

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-05
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

The cable has been replaced.

Name: Giovanni Tangianu

Date: 2025-04-02

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


C-64-SDY-001/00-JE-23002
rotork


64-SDV-001

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003571

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002041	1.4 Discipline	ATEX
1.2 Item	64-SDY-001	Solenoid Valve - Nitrogen to Distribution Header Shut-Down	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Missing tag SS , on Solenoid Valve.

Name: Alessio Polo

Date: 2025-02-05

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-05
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-21

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


64-SDV-001

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003572

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002041	1.4 Discipline	ATEX
1.2 Item	64-SDY-001	Solenoid Valve - Nitrogen to Distribution Header Shut-Down	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Doc: document 123A90-DDL-EL-LIS-20094 does not report what was installed in the field (see picture)

Name: Alessio Polo
Date: 2025-02-05
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-05
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

The ATEX Register issued by FLUITEK has been updated and now reflects the equipment actually installed on BLPH. Document 123A90-DDL-EL-LIS-20094 will endorse and confirm the information contained in the updated ATEX Register.

Name: Raffaele Degli Esposti
Date: 2025-06-10
Signature:

5 - CLEARANCE CHECK

Checked during reinstatement phase.

Name: Raffaele Degli Esposti
Date: 2025-06-10
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


64-SDV-001


GYJ19.1148X
IECEx BAS10.0008
KTL-12-KB480-0213
Baseefa10ATEX0026
BAS21UKEX0642
UK CA
T4 T135°C(-60°C≤ Tamb ≤ +80°C)
T5 T100°C(-60°C≤ Tamb ≤ +55°C)
T6 T85°C (-60°C≤ Tamb ≤ +40°C)
Ex d IIC Gb
Ex tb IIIC Db
NEMA 4X/IP66 IP67
0598
DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT
爆炸性环境严禁开盖
COVER SCREW A4-70 MINIMUM
USE SUPPLY WIRE SUITABLE FOR AT LEAST 90°C@T6/105°C@T5/150°C@T4
VOLTAGE./ 额定电压：
SERIAL No./ 序列号：
MODEL No./ 型号：
Bifold
英国制造
UL9 9XA ENGLAND

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003577

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003407	1.4 Discipline	Piping
1.2 Item	64-10-TP-023	Test Pack 64-10-TP-023	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Flange management activity to be done on joint J5 (BLPH-MV-167). Broken joint done without authorization

Name: Andrea Mancini

Date: 2025-02-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Mancini
3.4 Activity code	MC Mechanical Completion	Date	2025-02-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Joint tightened again.

Name: Lorenzo Novaga

Date: 2025-02-20

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003578

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003408	1.4 Discipline	Piping
1.2 Item	64-10-TP-023	Test Pack 64-10-TP-023	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

The valve BLPH-MV-386 has drain plug not painted.

Name: Kangi Albonetti

Date: 2025-02-06

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	2025-02-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-04-17

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-04-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-04-17

Signature:


64-PT-031B

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003580

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000139	1.4 Discipline	Instrumental
1.2 Item	C-64-PT-002/00-JE-21002	PRESSURE TRANSMITTER / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

The cable (between external cable tray and instrument) to be dressed/fixed properly.

Name: Alessio Polo

Date: 2025-02-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-13

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


ISOLATE



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003581

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000912	1.4 Discipline	Instrumental
1.2 Item	64-PT-002		Pressure Transmitter - Nitrogen to Distribution Header Low Pressure
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

Missing traffolyte tag side instrument

Name: Alessio Polo

Date: 2025-02-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-13

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003588

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000912	1.4 Discipline	Instrumental
1.2 Item	64-PT-002		Pressure Transmitter - Nitrogen to Distribution Header Low Pressure
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

Missing tag SS , on the instrument.

Name: Alessio Polo

Date: 2025-02-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-21

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003589

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000912	1.4 Discipline	Instrumental
1.2 Item	64-PT-002		Pressure Transmitter - Nitrogen to Distribution Header Low Pressure
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

The earthing cable of the instrument to be connected and dressed/fixed properly.

Name: Alessio Polo
Date: 2025-02-07
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani
Date: 2025-02-13
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


DON'T REMOVE WITH POWER ON
MENU
OK
TERRANOVA
INSTRUMENT
VENT
PROCESS
MAIN
ISOL

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003590

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000054	1.4 Discipline	Instrumental
1.2 Item	C-64-PT-031B/00-JE-11004	PRESSURE TRANSMITTER / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

The cable (between external cable tray and instrument) to be dressed/fixed properly.

Name: Alessio Polo

Date: 2025-02-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-13

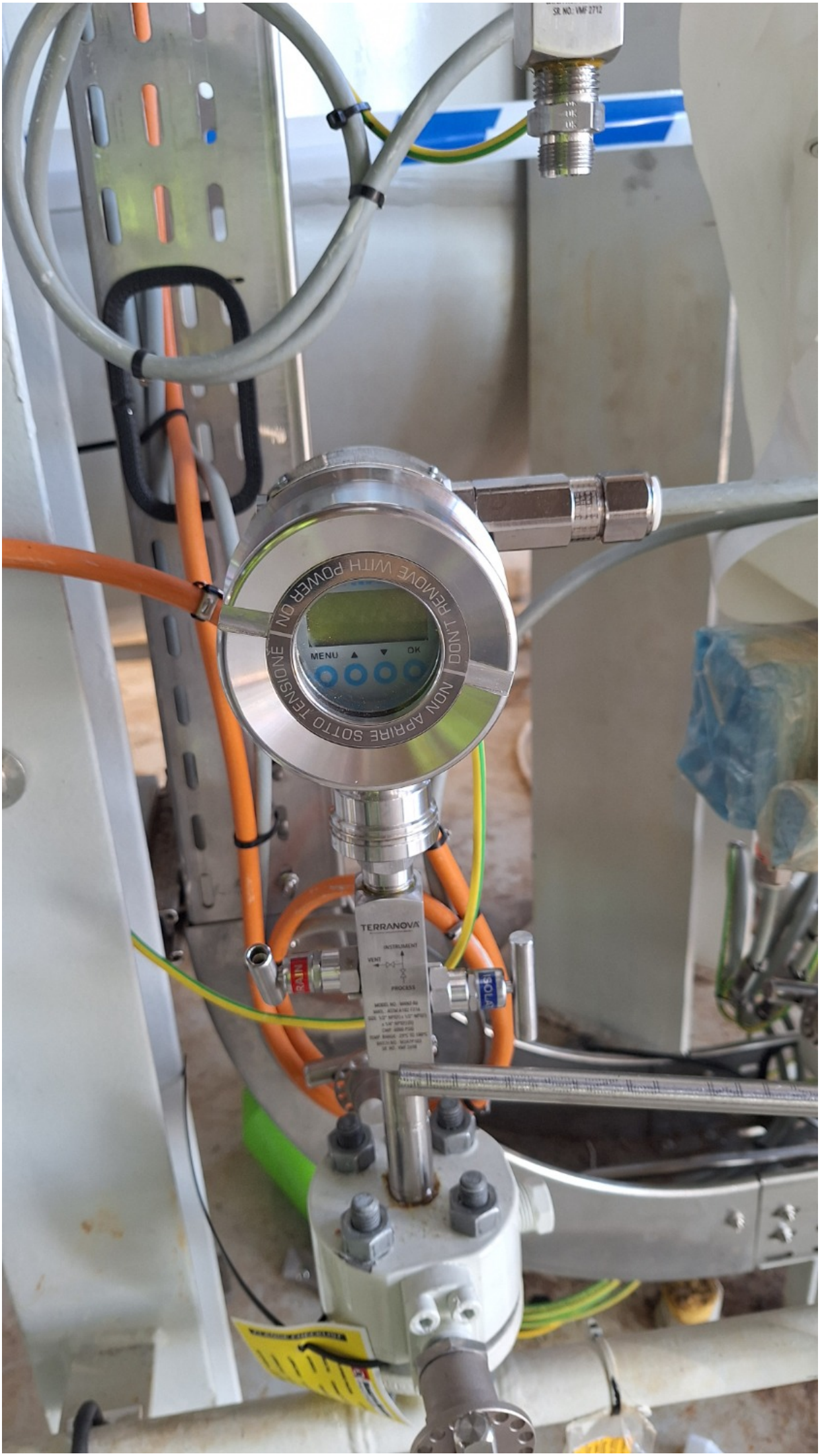
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


SR NO: VMF 2712
DON'T REMOVE WITH POWER ON
NON APRIRE SOTTO TENSIONE
MENU
OK
TERRANOVA
INSTRUMENT
VENT
PROCESS


DON'T REMOVE WITH POWER ON
MENU
TERRANOVA
INSTRUMENT
VENT
PROCESS


TERRANOVA
C-64-PT-0318/00-JE-11004

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003591

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000914	1.4 Discipline	Instrumental
1.2 Item	64-PT-031B		Pressure Transmitter - Nitrogen Pressure Control to Distribution Header
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

The earthing cable of the instrument to be connected and dressed/fixed properly.

Name: Alessio Polo
Date: 2025-02-07
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

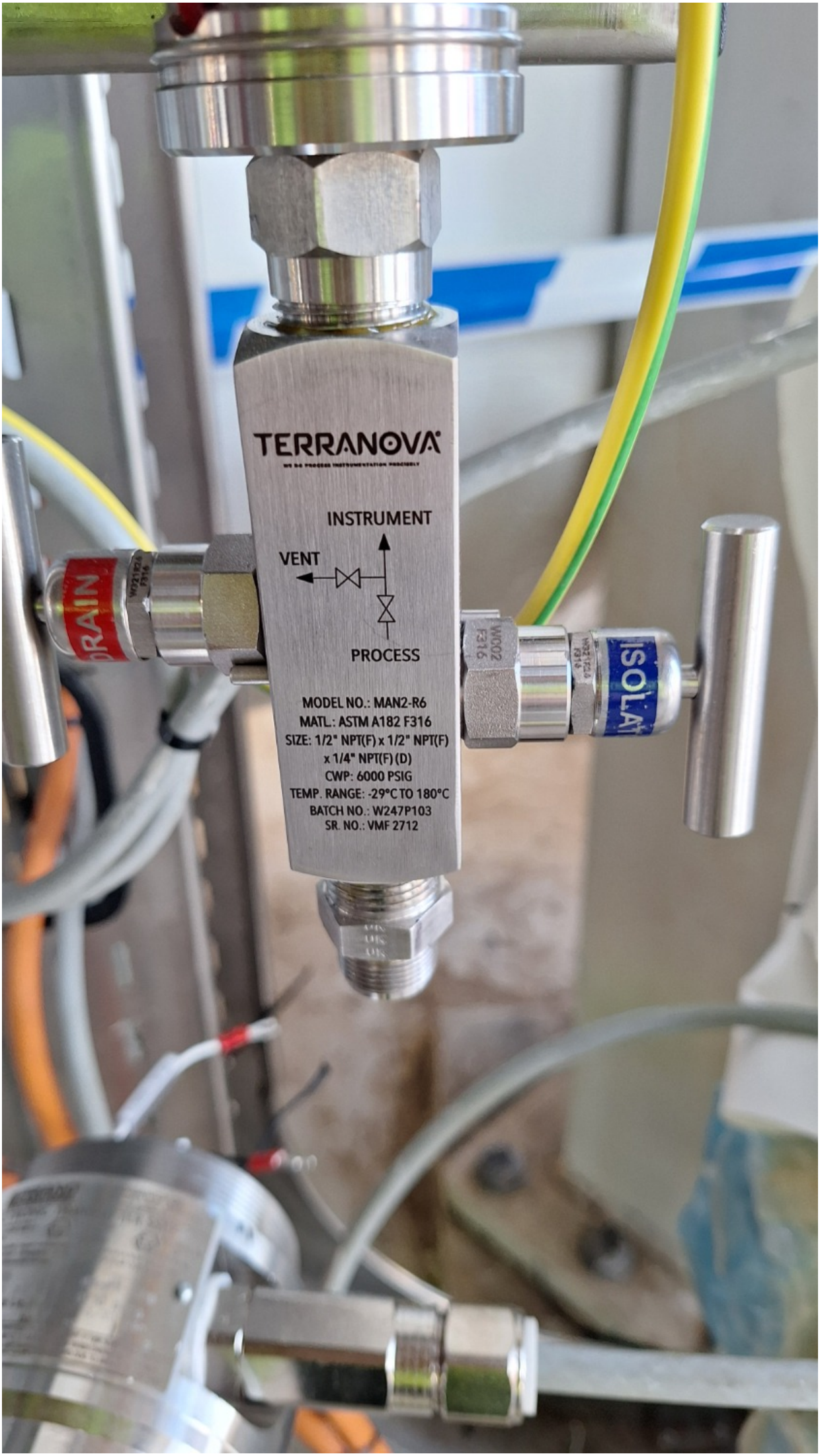
5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani
Date: 2025-02-13
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


TERRANOVA
INSTRUMENT
VENT
PROCESS
MODEL NO.: MAN2-R6
MATL.: ASTM A182 F316
SIZE: 1/2" NPT(F) x 1/2" NPT(F)
x 1/4" NPT(F) (D)
CWP: 6000 PSIG
TEMP. RANGE: -29°C TO 180°C
BATCH NO.: W247P103
SR. NO.: VMF 2712

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003592

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000914	1.4 Discipline	Instrumental
1.2 Item	64-PT-031B		Pressure Transmitter - Nitrogen Pressure Control to Distribution Header
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

Missing traffolyte tag side instrument

Name: Alessio Polo

Date: 2025-02-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-13

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003593

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000914	1.4 Discipline	Instrumental
1.2 Item	64-PT-031B		Pressure Transmitter - Nitrogen Pressure Control to Distribution Header
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

Missing tag SS , on the instrument.

Name: Alessio Polo

Date: 2025-02-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-21

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003598

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000053	1.4 Discipline	Instrumental
1.2 Item	C-64-PT-031A/00-JE-11004	PRESSURE TRANSMITTER / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

The cable (between external cable tray and instrument) to be dressed/fixed properly.

Name: Alessio Polo

Date: 2025-02-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-13

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:





ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003599

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000913	1.4 Discipline	Instrumental
1.2 Item	64-PT-031A		Pressure Transmitter - Nitrogen Pressure Control to Distribution Header
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

Missing traffolyte tag side instrument

Name: Alessio Polo

Date: 2025-02-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-13

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003600

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000913	1.4 Discipline	Instrumental
1.2 Item	64-PT-031A		Pressure Transmitter - Nitrogen Pressure Control to Distribution Header
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

Missing tag SS , on the instrument.

Name: Alessio Polo

Date: 2025-02-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-21

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003601

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000913	1.4 Discipline	Instrumental
1.2 Item	64-PT-031A		Pressure Transmitter - Nitrogen Pressure Control to Distribution Header
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

The earthing cable of the instrument to be connected and dressed/fixed properly.

Name: Alessio Polo
Date: 2025-02-07
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani
Date: 2025-02-13
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

TERRANOVA
DRAIN

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003615

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003407	1.4 Discipline	Piping
1.2 Item	64-10-TP-023	Test Pack 64-10-TP-023	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Check Valve BLPH-NRV-019 has no flow direction market visibly on its body. It is not possibile to confirm it has been mounted correctly in the line.

Name: Lorenzo Novaga
Date: 2025-02-08
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Lorenzo Novaga
3.4 Activity code	MC Mechanical Completion	Date	2025-02-08
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

NRV-019 has been mounted correctly.

Name: Kangi Albonetti
Date: 2025-02-28
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003639

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001191	1.4 Discipline	Instrumental
1.2 Item	64-PSV-001		Pressure Safety Valve - Nitrogen to Distribution Header Vent System
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

Touch-up is required

Name: Gabriele Bertuccelli

Date: 2025-02-10

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2025-02-10
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-04-18

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-04-18

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-04-18

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003672

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003383	1.4 Discipline	Piping
1.2 Item	64-10-TP-020	Test Pack 64-10-TP-020	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Several touch-ups to be still made.

Name: Kangi Albonetti

Date: 2025-02-11

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	2025-02-11
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-02-28

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003678

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003591	1.4 Discipline	Piping
1.2 Item	64-10-TP-047	Test Pack 64-10-TP-047	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Color coding and fluid direction are missing.

Name: Kangi Albonetti

Date: 2025-02-11

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	2025-02-11
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-03-21

Signature:

5 - CLEARANCE CHECK

Not applicable for this test pack.

Name: Lorenzo Novaga

Date: 2025-03-21

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-03-21

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003681

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003591	1.4 Discipline	Piping
1.2 Item	64-10-TP-047	Test Pack 64-10-TP-047	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Earthing lug totally painted.

Name: Kangi Albonetti

Date: 2025-02-11

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Kangi Albonetti
3.4 Activity code	MC Mechanical Completion	Date	2025-02-11
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Paint removed.

Name: Kangi Albonetti

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001899

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003381	1.4 Discipline	Piping
1.2 Item	64-10-TP-020	Test Pack 64-10-TP-020	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Support PS-02012 not assembled in erection. (Due lack of Valves' positioning)

Name: Kangi Albonetti

Date: 2024-12-16

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	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Checked during reinstatement phase.

Name: Lorenzo Novaga

Date: 2025-02-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001900

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003381	1.4 Discipline	Piping
1.2 Item	64-10-TP-020	Test Pack 64-10-TP-020	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Support PS-02016 not assembled in erection.

Name: Kangi Albonetti

Date: 2024-12-16

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	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Checked during reinstatement phase.

Name: Lorenzo Novaga

Date: 2025-02-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001901

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003381	1.4 Discipline	Piping
1.2 Item	64-10-TP-020	Test Pack 64-10-TP-020	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Support PS-02020 not assembled in erection.

Name: Kangi Albonetti

Date: 2024-12-16

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	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Checked during reinstatement phase.

Name: Lorenzo Novaga

Date: 2025-02-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001904

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003381	1.4 Discipline	Piping
1.2 Item	64-10-TP-020	Test Pack 64-10-TP-020	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Support PS-03014 not assembled in erection.

Name: Kangi Albonetti

Date: 2024-12-16

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	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Checked during reinstatement phase.

Name: Lorenzo Novaga

Date: 2025-02-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001909

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003381	1.4 Discipline	Piping
1.2 Item	64-10-TP-020	Test Pack 64-10-TP-020	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Support PS-03037 not assembled in erection.

Name: Kangi Albonetti

Date: 2024-12-16

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	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Checked during reinstatement phase.

Name: Lorenzo Novaga

Date: 2025-02-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001910

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003381	1.4 Discipline	Piping
1.2 Item	64-10-TP-020	Test Pack 64-10-TP-020	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Support PS-03047 not assembled in erection.

Name: Kangi Albonetti

Date: 2024-12-16

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	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Checked during reinstatement phase.

Name: Lorenzo Novaga

Date: 2025-02-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002117

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003406	1.4 Discipline	Piping
1.2 Item	64-10-TP-023	Test Pack 64-10-TP-023	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

SK.34 (2/2): Position F2 of piping support PS-02095 is actually a HEA120 instead of UPN120.

Name: Kangi Albonetti
Date: 2024-12-20
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	2024-12-20
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:

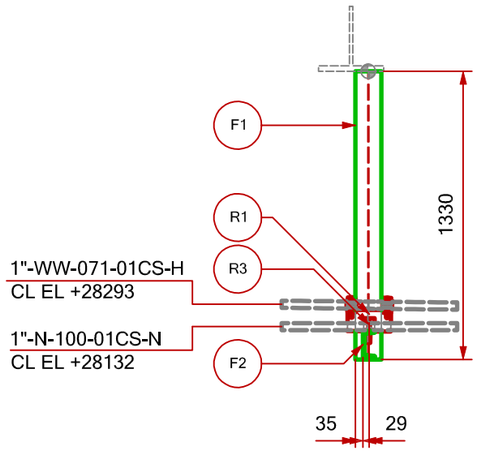
5 - CLEARANCE CHECK

Ref. to RLMU 123A90-DDL-PP-DD-72000-PS-02095_01_01A

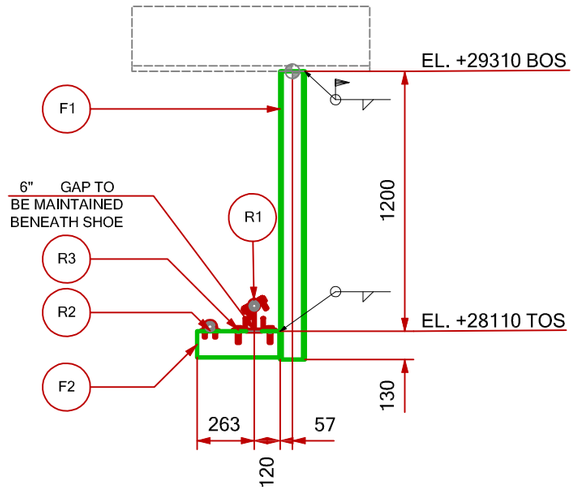
Name: Raffaele Degli Esposti
Date: 2025-06-25
Signature:

6- CLEARANCE APPROVAL

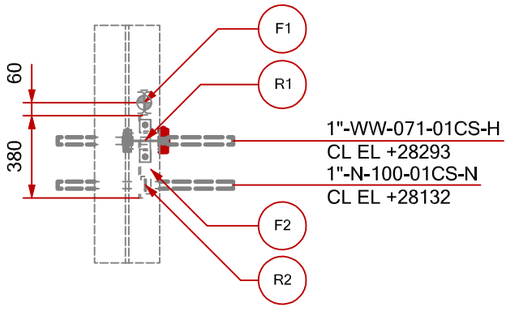
Name:
Date: 2025-06-25
Signature:



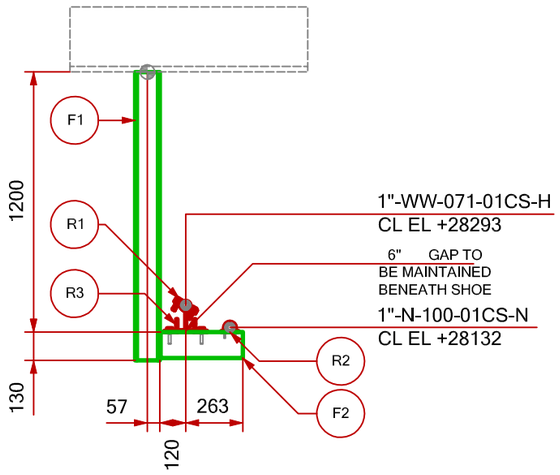
VIEW LOOKING NORTH



VIEW LOOKING WEST



PLAN VIEW

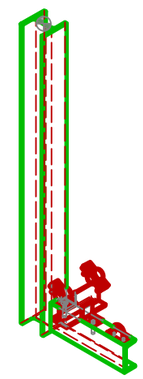


VIEW LOOKING EAST

SUPPORT MATERIAL LIST

POS.	TYPE	DESCRIPTION	MATERIAL	LENGHT (mm)	Q.TY (n°)	UNIT WEIGHT (Kg/mt)	TOTAL WEIGHT (Kg)	PAINT SURF. (m2)
R1	STD	S-75-1"-98-92-200	-	-	1	-	4.64	0.034
R2	STD	S-211-1"	-	-	1	-	0.29	-
R3	STD	C-34-1-I-2	-	-	1	-	2.04	0.023
F1	BEAM	HEA120	Carbon Steel	1330	1	19.98	26.57	0.905
F2	BEAM	UPN120 HEA 120	Carbon Steel	383	1	13.35	5.07	0.166
						TOTAL	38.6	1.13





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	19/08/24	MMA	SLO	DLO	ISSUE FOR REVIEW

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
Support Drawings
PS-02095

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1 : 20
DRAWN	CHECKED	APPROVED	DATE 19/08/24
DRAWING NO. 123A90-DDL-PP-DD-72000			SHEET 1 of 1 / REV. 00

File Name :

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002118

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003406	1.4 Discipline	Piping
1.2 Item	64-10-TP-023	Test Pack 64-10-TP-023	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

For all supports type S-211 the isolating ruber, the gap, the lock nuts and the washers shall be checked again during reinstatement because they have not been installed properly before the test.

Name: Kangi Albonetti
Date: 2024-12-20
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	2024-12-20
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Done

Name: Kangi Albonetti
Date: 2025-02-19
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002135

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003406	1.4 Discipline	Piping
1.2 Item	64-10-TP-023	Test Pack 64-10-TP-023	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Sk.66 (Sh.1/1): Support PS-01031.2: there is no STD S-211 and the structural part has not been drilled yet.

Name: Kangi Albonetti

Date: 2024-12-24

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	2024-12-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Kangi Albonetti

Date: 2025-02-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002136

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003406	1.4 Discipline	Piping
1.2 Item	64-10-TP-023	Test Pack 64-10-TP-023	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

SK.034 (SH.1/2) spools A and B; SK.097 (SH.1/1) Spools A and B: these spools are moved +40 mm eastward. Alignement of supports and connection points to TP-029 to be verified during reinstatement.

Name: Kangi Albonetti

Date: 2024-12-24

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	2024-12-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Kangi Albonetti

Date: 2025-02-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002137

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003406	1.4 Discipline	Piping
1.2 Item	64-10-TP-023	Test Pack 64-10-TP-023	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Sk.34 (Sh.1/2): Support PS-01025.3: position R1 has not been assembled yet.

Name: Kangi Albonetti

Date: 2024-12-24

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	2024-12-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Kangi Albonetti

Date: 2025-02-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002145

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003406	1.4 Discipline	Piping
1.2 Item	64-10-TP-023	Test Pack 64-10-TP-023	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

SK.062 (SH.2/2) spool D: Flange joint J3 has been only temporary tightened. Flange management to be done during reinstatement.

Name: Kangi Albonetti
Date: 2024-12-24
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	2024-12-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Done

Name: Kangi Albonetti
Date: 2025-02-19
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002146

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003406	1.4 Discipline	Piping
1.2 Item	64-10-TP-023	Test Pack 64-10-TP-023	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

SK.062 (SH.2/2) spool G: between supports PS-03123.1 and PS-03122.1 the pipe is bended.

Name: Kangi Albonetti

Date: 2024-12-24

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	2024-12-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-03-11

Signature:

5 - CLEARANCE CHECK

Accepted by Rosetti Marino.

Name: Lorenzo Novaga

Date: 2025-03-11

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-03-11

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002147

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003406	1.4 Discipline	Piping
1.2 Item	64-10-TP-023	Test Pack 64-10-TP-023	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

SK.062 (SH.2/2) Spool F: earthing plate W24. Position from W26 shall be changed from 638 mm to 350 mm.

Name: Kangi Albonetti
Date: 2024-12-24
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	2024-12-24
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

C30002155

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003406	1.4 Discipline	Piping
1.2 Item	64-10-TP-023	Test Pack 64-10-TP-023	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

SK.062 (SH.2/2) the support PS-02094.1 has been mounted and welded with a clockwise turn of 90°. In addition the L profile is shorter of 15 mm and the pipe U-bolt position is shorter of the same measure.

Name: Kangi Albonetti

Date: 2024-12-24

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	2024-12-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Acceptable.

Name: Lorenzo Novaga

Date: 2025-02-27

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002337

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003589	1.4 Discipline	Piping
1.2 Item	64-10-TP-047	Test Pack 64-10-TP-047	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

SK.065 (SH.1/1): For PS-02024.1 the position R1 has not been installed yet. The support is also 5 mm shorter.

Name: Kangi Albonetti

Date: 2025-01-03

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	2025-01-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Activity done.

Name: Lorenzo Novaga

Date: 2025-02-14

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002339

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003589	1.4 Discipline	Piping
1.2 Item	64-10-TP-047	Test Pack 64-10-TP-047	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Spool has not been installed in erection. Inspection point n.5 of the ITR to be checked during reinstatement.

Name: Kangi Albonetti

Date: 2025-01-03

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	2025-01-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Activity done.

Name: Lorenzo Novaga

Date: 2025-02-14

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003202

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004226	1.4 Discipline	Piping
1.2 Item	035-1-J1	Joint 035-1-J1	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

The Instrument is in AISI 316 but the line is in CS. The isometric requires no insulation kit and flange management has been completed such as. But after talking with engineering, it has been clarified the insulation kit is needed.

Name: Kangi Albonetti

Date: 2025-01-25

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	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

As for e-mail of the 19th from piping engineering, lack of insulation kit is acceptable.

Name: Kangi Albonetti

Date: 2025-02-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003203

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004227	1.4 Discipline	Piping
1.2 Item	035-1-J2	Joint 035-1-J2	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

The Instrument is in AISI 316 but the line is in CS. The isometric requires no insulation kit and flange management has been completed such as. But after talking with engineering, it has been clarified the insulation kit is needed.

Name: Kangi Albonetti

Date: 2025-01-25

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	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

As for e-mail of the 19th from piping engineering, lack of insulation kit is acceptable.

Name: Kangi Albonetti

Date: 2025-02-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003216

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000109	1.4 Discipline	Instrumental
1.2 Item	C-64-ZSL-031B/00-JE-12006	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Missing cable tag SS , near the JB 00-JE-12006

Name: Alessio Polo

Date: 2025-01-27

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-01-29

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003217

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000109	1.4 Discipline	Instrumental
1.2 Item	C-64-ZSL-031B/00-JE-12006	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Wrong cores identification tag. side J.B. 00-JE-12006 . (see document 123A90-DDL-IN-DG-40016 sh.3)

Name: Alessio Polo
Date: 2025-01-27
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo
Date: 2025-01-29
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003218

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000110	1.4 Discipline	Instrumental
1.2 Item	C-64-ZSH-031B/00-JE-12006	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Wrong cores identification tag. side J.B. 00-JE-12006 . (see document 123A90-DDL-IN-DG-40016 sh.3)

Name: Alessio Polo
Date: 2025-01-27
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo
Date: 2025-01-29
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003219

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000110	1.4 Discipline	Instrumental
1.2 Item	C-64-ZSH-031B/00-JE-12006	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Missing cable tag SS , near the JB 00-JE-12006.

Name: Alessio Polo

Date: 2025-01-27

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-01-29

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003220

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000055	1.4 Discipline	Instrumental
1.2 Item	C-64-PY-031A/00-JE-11004	E/P POSITIONER / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Wrong cores identification tag. side J.B. 00-JE-11004 . (see document 123A90-DDL-IN-DG-40016 sh.3)

Name: Alessio Polo
Date: 2025-01-27
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo
Date: 2025-01-29
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003221

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000056	1.4 Discipline	Instrumental
1.2 Item	C-64-PY-031B/00-JE-11004	E/P POSITIONER / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Wrong cores identification tag. side J.B. 00-JE-11004 . (see document 123A90-DDL-IN-DG-40016 sh.3)

Name: Alessio Polo
Date: 2025-01-27
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo
Date: 2025-01-29
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003222

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000059	1.4 Discipline	Instrumental
1.2 Item	C-64-ZT-031A/00-JE-11005	POSITION TRANSMITTER / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Wrong cores identification tag. side J.B. 00-JE-11005 . (see document 123A90-DDL-IN-DG-40016 sh.3)

Name: Alessio Polo

Date: 2025-01-27

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-01-29

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003223

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000059	1.4 Discipline	Instrumental
1.2 Item	C-64-ZT-031A/00-JE-11005	POSITION TRANSMITTER / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Missing cable tag SS , near the JB 00-JE-11005

Name: Alessio Polo

Date: 2025-01-27

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-01-29

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003224

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000059	1.4 Discipline	Instrumental
1.2 Item	C-64-ZT-031A/00-JE-11005	POSITION TRANSMITTER / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Wrong cores identification tag. side 64-ZT-031A . (see document 123A90-DDL-IN-DG-40016 sh.3)

Name: Alessio Polo
Date: 2025-01-27
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo
Date: 2025-01-29
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003225

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000060	1.4 Discipline	Instrumental
1.2 Item	C-64-ZT-031B/00-JE-11005	POSITION TRANSMITTER / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Wrong cores identification tag. side J.B. 00-JE-12005 / stru. 64-ZT-031B . (see document 123A90-DDL-IN-DG-40016 sh.3)

Name: Alessio Polo
Date: 2025-01-27
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo
Date: 2025-01-29
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003226

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000060	1.4 Discipline	Instrumental
1.2 Item	C-64-ZT-031B/00-JE-11005	POSITION TRANSMITTER / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Missing cable tag SS , near the JB 00-JE-11005

Name: Alessio Polo

Date: 2025-01-27

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-01-29

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003227

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000107	1.4 Discipline	Instrumental
1.2 Item	C-64-ZSL-031A/00-JE-12006	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Missing cable tag SS , near the JB 00-JE-12006

Name: Alessio Polo

Date: 2025-01-27

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-01-29

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003228

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000107	1.4 Discipline	Instrumental
1.2 Item	C-64-ZSL-031A/00-JE-12006	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Wrong cores identification tag. side J.B. 00-JE-12006 . (see document 123A90-DDL-IN-DG-40016 sh.3)

Name: Alessio Polo
Date: 2025-01-27
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo
Date: 2025-01-29
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003229

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000108	1.4 Discipline	Instrumental
1.2 Item	C-64-ZSH-031A/00-JE-12006	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Wrong cores identification tag. side J.B. 00-JE-12006 . (see document 123A90-DDL-IN-DG-40016 sh.3)

Name: Alessio Polo
Date: 2025-01-27
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo
Date: 2025-01-29
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003230

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000108	1.4 Discipline	Instrumental
1.2 Item	C-64-ZSH-031A/00-JE-12006	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Missing cable tag SS , near the JB 00-JE-12006

Name: Alessio Polo

Date: 2025-01-27

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-01-29

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003232

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002030	1.4 Discipline	Instrumental
1.2 Item	64-ZSHL-031B	Open/closed Limit Switches - Nitrogen Pressure Control to Distribution Header	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

The visual indicator cover (limit switch ZSHL) is damaged. To be replaced

Name: Alessio Polo

Date: 2025-01-28

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-28
3.5 Action by	VND Vendor	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed the new cover.

Name: Giovanni Tangianu

Date: 2025-03-25

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


64-ZSHL-03AB
Limit Switch


MODEL:
SWITCH TYPE
ELECTR RATING
AMBIENT TEMP
CABLE ENTRIES
FOR SAFETY INSTRUCTIONS REFER TO DOCUMENT



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003236

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001193	1.4 Discipline	Instrumental
1.2 Item	64-PV-031A		Control Valve - Nitrogen Pressure Control to Distribution Header
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

Missing suitable Plug "on Air set Filter".

Name: Alessio Polo

Date: 2025-01-28

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-03-25

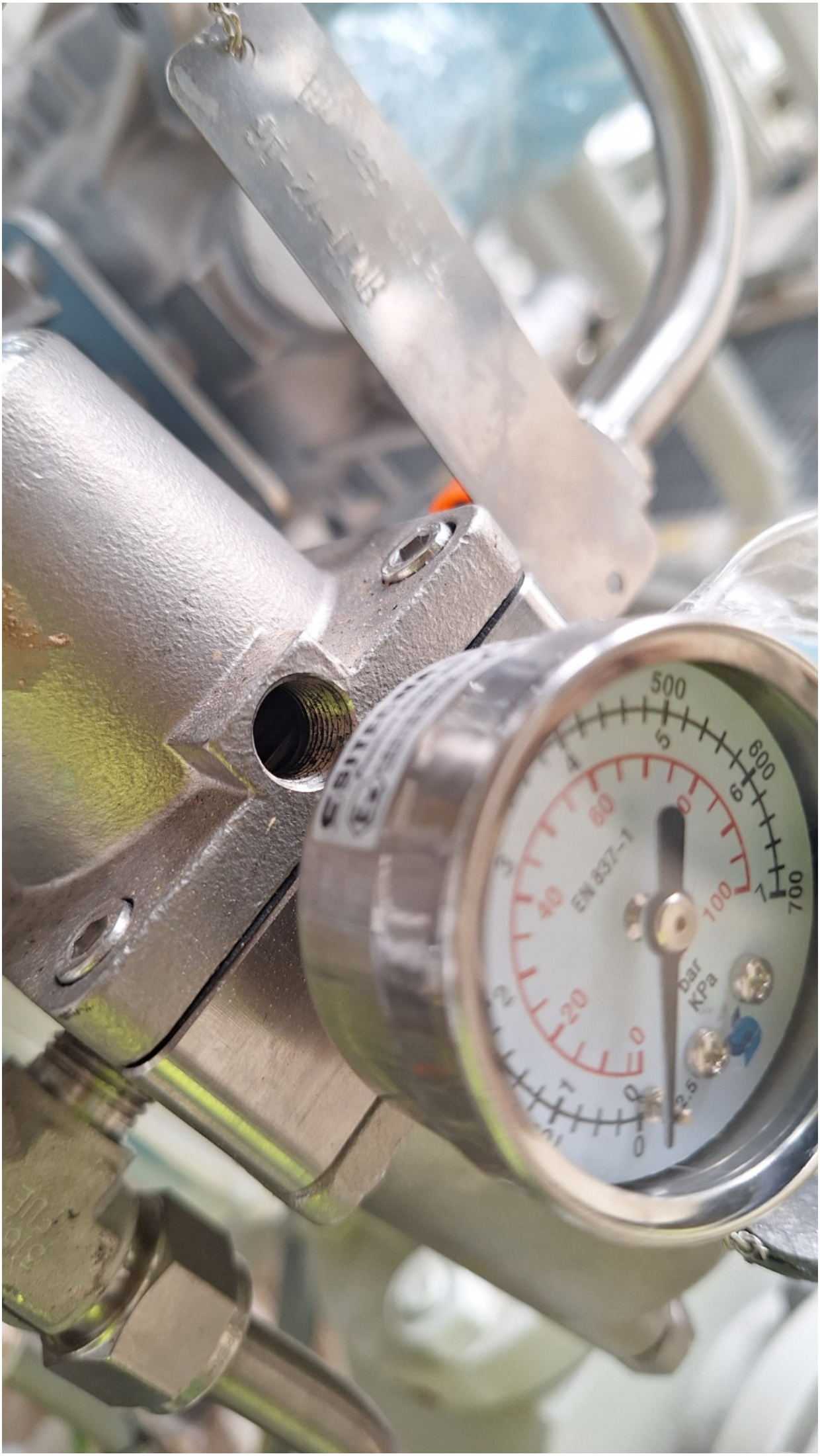
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


500
600
700
EN 837-1
bar
KPa


SITECNA
MILAN - ITALY
Pressure Gauge MBS
2024
Ex
CE

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003238

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001194	1.4 Discipline	Instrumental
1.2 Item	64-PV-031B		Control Valve - Nitrogen Pressure Control to Distribution Header
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

Missing suitable Plug "on Air set Filter".

Name: Alessio Polo

Date: 2025-01-28

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed

Name: Giovanni Tangianu

Date: 2025-03-26

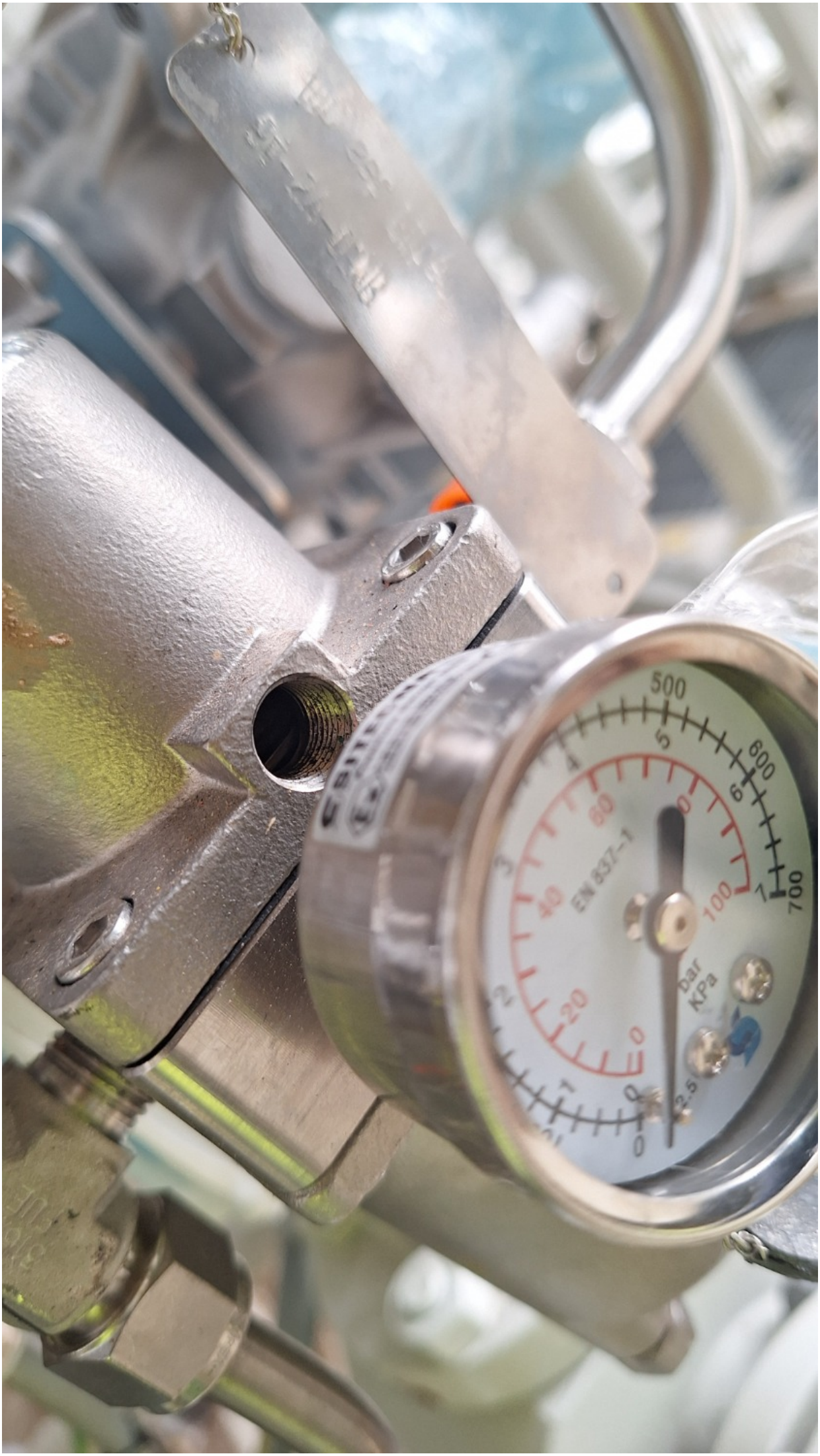
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


500
600
700
EN 837-1
bar
KPa


SITECNA
MILAN - ITALY
Pressure Gauge MBS
2024
Ex
CE

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003421

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001617	1.4 Discipline	ATEX
1.2 Item	64-SDV-001		On/Off Valve - Nitrogen to Distribution Header Shut-Down
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

Scratch on painting, general touch-up to be performed

Name: Luca Mussi

Date: 2025-01-31

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-31
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2025-04-08

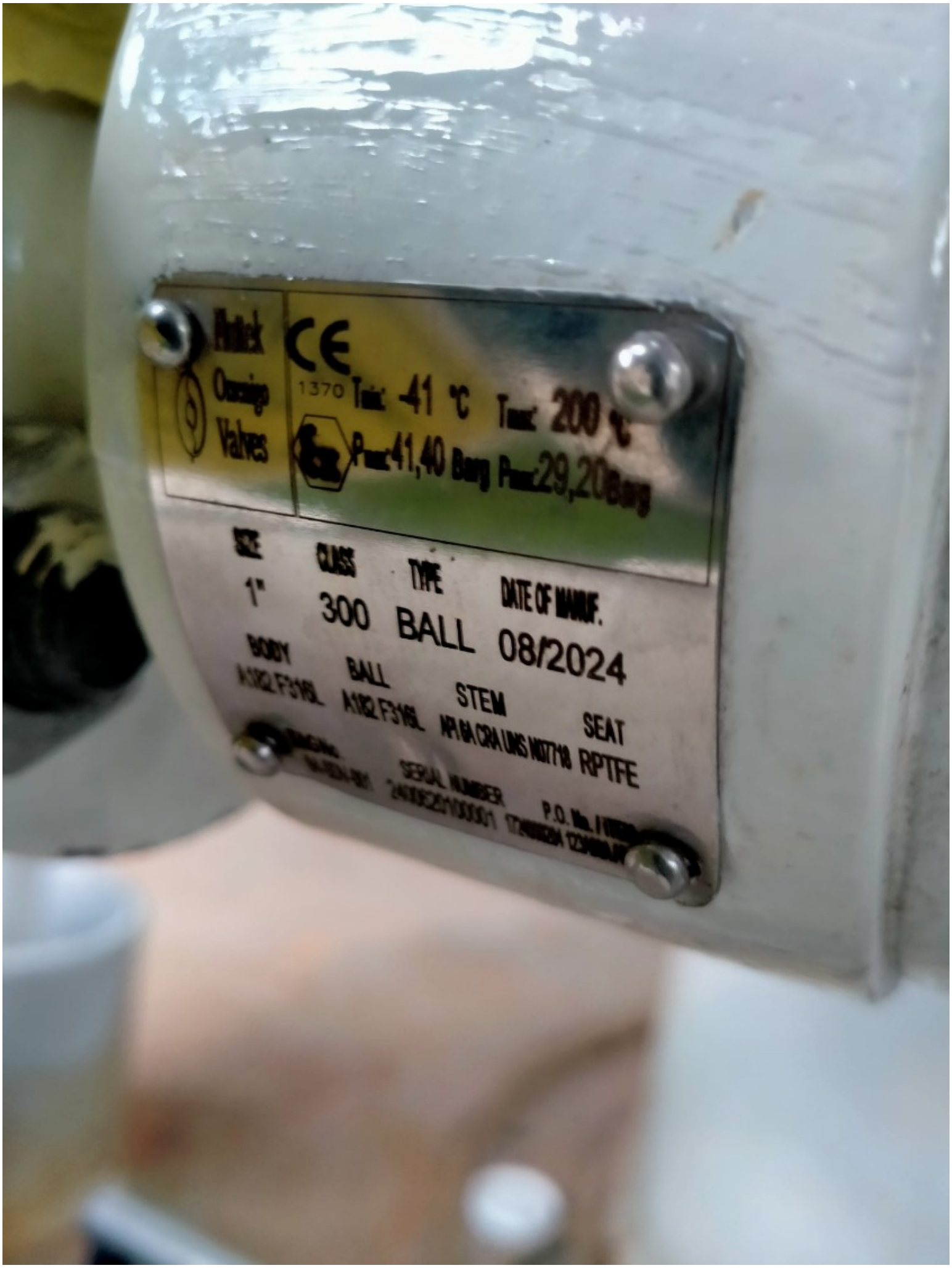
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


Antick
Oncinp
Valves
CE
1370
Tmin: -41 °C
Tmax: 200 °C
Pmax:41,40 Barg
Pmax:29,20Barg
SIZE
CLASS
TYPE
DATE OF MANUF.
1"
300
BALL
08/2024
BODY
BALL
STEM
SEAT
A182 F316L
A182 F316L
AP I 6A CRA UNS N07718
RPTFE
SERIAL NUMBER
P.O. No.

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003422

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001617	1.4 Discipline	ATEX
1.2 Item	64-SDV-001		On/Off Valve - Nitrogen to Distribution Header Shut-Down
1.3 Subsystem	64-10		Nitrogen Distribution Network

2 - OBSERVATION

On ATEX register (123A90-DDL-EL-LIS-20094 sheet 7) Manufacturer, Atex certificate, Atex marking etc. are missing or wrong.

Name: Luca Mussi
Date: 2025-01-31
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-31
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

The ATEX Register issued by FLUITEK has been updated and now reflects the equipment actually installed on BLPH. Document 123A90-DDL-EL-LIS-20094 will endorse and confirm the information contained in the updated ATEX Register.

Name: Raffaele Degli Esposti
Date: 2025-06-10
Signature:

5 - CLEARANCE CHECK

Checked during reinstatement phase.

Name: Raffaele Degli Esposti
Date: 2025-06-10
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001618

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003609	1.4 Discipline	Piping
1.2 Item	64-10-TP-051	Test Pack 64-10-TP-051	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Spool has not been installed in erection. Inspection points from 4 to 6 of the "Inspection before testing" to be checked during reinstatement.

Name: Kangi Albonetti

Date: 2024-12-10

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	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Flange management activity done for TP-051

Name: Lorenzo Novaga

Date: 2025-01-16

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001846

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003381	1.4 Discipline	Piping
1.2 Item	64-10-TP-020	Test Pack 64-10-TP-020	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Position F1 of the support PS-03580 has Horizontal misalignment.

Name: Massimo Bruschi

Date: 2024-12-13

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	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Checked during reinstatement phase.

Name: Lorenzo Novaga

Date: 2025-02-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001848

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003381	1.4 Discipline	Piping
1.2 Item	64-10-TP-020	Test Pack 64-10-TP-020	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

Position F1 of the support PS-03600 has horizontal misalignment.

Name: Massimo Bruschi

Date: 2024-12-13

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	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Checked during reinstatement phase.

Name: Lorenzo Novaga

Date: 2025-02-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001852

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003381	1.4 Discipline	Piping
1.2 Item	64-10-TP-020	Test Pack 64-10-TP-020	
1.3 Subsystem	64-10	Nitrogen Distribution Network	

2 - OBSERVATION

All supports S-211 need to check the gap, isolation rubber, ptfe bounded and lock nut in the reinstatement phase.

Name: Massimo Bruschi

Date: 2024-12-13

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	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Checked during reinstatement phase.

Name: Lorenzo Novaga

Date: 2025-02-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

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: 64-10 & discipline : I

Instrumental	64-10 Nitrogen Distribution Network

ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
64-PIC-031A	Nitrogen pressure control to distribution header	ONSHORE	C10003763	FJ01C	100	2025-03-26	RFO 1
64-PIC-031B	Nitrogen pressure control to distribution header	ONSHORE	C10003765	FJ01C	100	2025-03-26	RFO 1
64-PT-002	Pressure Transmitter - Nitrogen to Distribution Header Low Pressure	ONSHORE	C10003186	FJ01A	100	2025-03-26	RFO 1
64-PT-031A	Pressure Transmitter - Nitrogen Pressure Control to Distribution Header	ONSHORE	C10003187	FJ01A	100	2025-03-19	RFO 1
64-PT-031B	Pressure Transmitter - Nitrogen Pressure Control to Distribution Header	ONSHORE	C10003188	FJ01A	100	2025-03-19	RFO 1
64-PV-031A	Control Valve - Nitrogen Pressure Control to Distribution Header	ONSHORE	C10004390	FJ04	100	2025-03-26	RFO 1
64-PV-031B	Control Valve - Nitrogen Pressure Control to Distribution Header	ONSHORE	C10004391	FJ04	100	2025-03-26	RFO 1
64-SDV-001	On/Off Valve - Nitrogen to Distribution Header Shut-Down	ONSHORE	C10003231	FJ01V	100	2025-03-26	RFO 1

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	64-PT-002	: Pressure Transmitter - Nitrogen to Distribution Header Low Pressure		Dwg	123A90-DDL-IN-DS-40039	
	S/Sys	64-10	: Nitrogen Distribution Network		Module	LD	
TASK	code	C10003186	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	PRE-COMM	Activity FTS	Discipline Instrumental	Form	FJ01A	Analog Loop

LOOP DATA

Loop TAG	64-PT-002			TSLD	123A90-FDL-IN-DG-40014 rev.1A				
IO Type	Input	Yes	Output	No	Energy by transmitter	No	Energy by system	Yes	
Marshalling	B400-SIS-001	Terminal	09A/09B	Slot	01	Rack	01	Chanel	09

LOOP TEST

1	Check earth isolation of the loop					OK
2	Connect loop to terminal					OK
3	Confirm Process Scale	Unit	barg	Min 0	Max 10	OK

LOOP RANGE

			0%	25%	50%	75%	100%
4	Physical value applied for test	Unit barg	0	2,5	5	7,5	10
5	Control System Display	Unit barg	0	2,5	5	7,49	10

LOOP SERVICE

		Value	Trip	Gen Alarm	DCS Alarm	SOE	DCS display	
6	Threshold 1	3,5 barg	Yes	Yes	Yes	Yes	OK	OK
7	Threshold 2	4 barg	No	Yes	Yes	Yes	OK	OK
8	Threshold 3		NA	NA	NA	NA	NA	NA
9	Threshold 4		NA	NA	NA	NA	NA	NA
10	Checking of line monitoring		NA	NA	NA	NA	NA	NA
11	Checking of Maintenance Inhibition		NA	NA	NA	NA	NA	NA
12	Associated safety Level / bar		ESD-1D					OK
13	Associated outputs							NA

TESTING & MEASUREMENT INSTRUMENT USED

Type	Serial N.	Calibration Certificate	Validity
PRESSURE GAUGE WIKA MOD. CPG1500	1A014ILJJIM	LAT 114 0435-SM-24	20-09-2025

LOOP DOCUMENTATION

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

Comments:

Page 1/1	Performed by	● WITNESS ☐ REVIEW	● WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	CROSSWIND
Name	Laurentiu Grozavu	Giandonato Delmissier	Gerry McCann
Date	2025-03-20	2025-03-20	2025-03-26
Signature	PROVERLIS Digitaly signed by Laurentiu Grozavu 2025-03-20T06:59:26.003Z	PROVERLIS Digitaly signed by Giandonato Delmissier 2025-03-20T13:04:46.692Z	PROVERLIS Digitaly signed by Gerry McCann 2025-03-26T09:19:48.790Z

ABR SERVICE S.r.l.
Via Manlio Monti, 40 – 48123 RAVENNA
Tel. +39 0544 685411 info@abrservice.net
C.F. Part. IVA 02764420390

Plant	CROSSWIND	Description	NITROGEN FROM U-64000 TO NITROGEN DISTR. HEADER		
Area	N.P.	Loop Tag	64-PI-002	Instrument Tag	64-PT-002
Type of verification	periodic	Calibration range	0,00 ÷ 10,00 bar	Report N°	025
Type of instrument	Pressure meter	Max uncertainty required	± 0,070 % s.r.	Reference procedure data sheet	123A90-PML-QHSE-PRO-00122 Page N°8

UNDER EXAMINATION INSTRUMENT 'S DATA

Tag	Manufacture	Model	S/N
64-PT-002	SPRIANO	SST76	SE240656

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	0640/MP/2024_LAT 150	± 0,001 c.s.	24/04/2024
Digital pressure gauge				± 0,001 c.s.	24/04/2024

environment temperature at the time of check 25 °C

Value indicated before starting the check 0 bar

CHECK RESULT: *as found*

Verification functionality loop check

Generated value	Expected value	Read value	Error	Error % on s.r.
bar	mA	mA	mA	
0,00	4,00	4,001	+0,001	+0,006
2,50	8,00	7,996	-0,004	-0,026
5,00	12,00	12,002	+0,002	+0,014
7,50	16,00	15,990	-0,010	-0,062
10,00	20,00	19,972	-0,028	-0,174
7,50	16,00	15,986	-0,014	-0,087
5,00	12,00	12,003	+0,003	+0,019
2,50	8,00	7,998	-0,002	-0,012
0,00	4,00	3,999	-0,001	-0,006
		max error detected %		0,174

Verification activation of blocks/threshold alarms

Alarm signalling	Type of activation	Alarm intervention	Block description	Action type	Block intervention
bar					

Check: FAILED **Blocks/alarms check:**

Corrective action Instruments scores less than the set range. Recalibrated

CHECK RESULT: *as left*

Verification functionality loop check

Generated value	Expected value	Read value	Error	Error % on s.r.
bar	mA	mA	mA	
0	4,00	4,000	0,000	0,000
2,5	8,00	8,002	0,002	0,013
5	12,00	12,000	0,000	0,000
7,5	16,00	15,992	-0,008	-0,050
10	20,00	19,999	-0,001	-0,013
7,5	16,00	15,994	-0,006	-0,038
5	12,00	12,001	0,001	0,006
2,5	8,00	8,001	0,001	0,006
0	4,00	3,999	-0,001	-0,006
		errore massimo rilevato %		0,050

Verification activation of blocks/threshold alarms

Alarm signalling	Type of activation	Alarm intervention	Block description	Action type	Block intervention

Check: PASSED **Blocks/alarms check:**

Value indicated after the check 0 bar

Note:

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

Verification Date	Verification Expiration	Technical Executor	Viewed	Approved by
18/09/2024	09/2025	PENSO SILVIO		
		signature	signature	signature

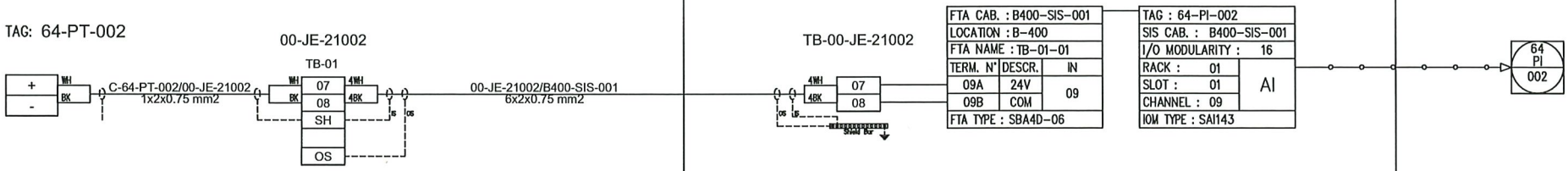
ABR SERVICE srl
Via M. Monti, 40 - 48123 RAVENNA
Tel. 0544 685411
C.F. e P.IVA 02764420390

GENERAL	1	Tag Number		64-PT-002	
	2	Service		NITROGEN FROM U-64000 TO NITROGEN DISTRIBUTION HEADER	
	3	P&ID Number	Location	123A90-DDL-PR-PID-80027	1"-N-100-01CS-N
	4	Function		PRESSURE MEASUREMENT	
	5	Mounting		DIRECT ON-LINE	
	6	Area Classification		ATEX Zone2 - IIC (IIB+H2) T1	
	7	Ambient Temperature		Min: -8.4 °C, Norm: 10.5 °C, Max: +25.0 °C.	
PROCESS CONDITIONS	8	Fluid		NITROGEN	
	9	Pressure Des.	Oper. [barg]	10	7(Max.)
	10	Temperature Des.	Oper. [°C]	100	AMB
	11	Oper. Spec. Gravity	Oper. Viscosity	-	-
	12	Flow Rate	Allowable Temp.	-	-
TRANSMITTER	13	Instrument Range Min.	Max. [barg]	0	30
	14	Calibration Range Min.	Max. [barg]	0	10
	15	Elevation	Suppression	-	-
	16	Element Type		Diaphragm	
	17	Element Material		SS AISI 316/316L	
	18	Body Material	Body Rating	AISI 316 SS	150 bar
	19	Process Connection		1/2" NPT-M	
	20	Wetted O-Rings Material		-	
	21	Fill Fluid		-	
	22	Bolts	Housing	Manifold/Instrument assembly	SS AISI 316/316L
	23	Paint		N/A	
	24	ATEX Certification	Ingress Protection	ATEX Ex II 2G Ex db IIC T5	IP66
	25	Process Connection	Electrical Connection	1/2" NPT-M	2 X M20X1.5
	26	Accuracy		0.07% of Nominal Range	
	27	SIL Certification	PED Certification	SIL2	Required
DIAPHRAGM SEAL	28	Process Connection & Rating		-	
	29	Diaphragm Material	Housing Material	-	-
	30	Fill Fluid	Capillary Material	-	-
	31	Capillary Type	Capillary Length	-	-
	32	Flushing Connection		-	
OPTIONS	33	Integral Meter	Scale	Required	-
	34	Hydrostatic Testing	Cleaning	Required	-
	35	Mounting Brackets	Manifold Model No	Required	MAN2-R6
	36	Lightning Protection	Barrier Manuf./Model	-	-
COMMUNICATION AND SOFTWARE	37	Communication Type	Signal Type	HART 6	4-20mA Loop Powered 24 Vdc
	38	D D Revision	CFF Revision	-	-
	39	Device Tag	Hart Tag	-	-
	40	Internal Diagnostics	Capacitance	-	-
	41	Segment	Device Address	-	-
	42	Device Class	Simulate	-	-
	43	Nominal Current	Operating Voltage	-	-
PURCHASE	44	Manufacturer		TERRANOVA SRL	
	45	Model		SST76-H-7-K-2-0-2-1-4 + MAN2-R6	
	46	Purchase Order Number		4718_OS	

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

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

FIELD	ITER – B400	CENTRAL CONTROL ROOM
	SAFETY INSTRUMENTED SYSTEM	OPERATOR CONSOLE



NO MARK UP
Logozzo
18/03/25

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
64-PI-002
NITROGEN TO DISTRIBUTION HEADER LOW PRESSURE

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 087	REV. 01

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

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	64-PT-031A	: Pressure Transmitter - Nitrogen Pressure Control to Distribution Header		Dwg	123A90-DDL-IN-DS-40039	
	S/Sys	64-10	: Nitrogen Distribution Network		Module	LD	
TASK	code	C10003187	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	PRE-COMM	Activity FTS	Discipline Instrumental	Form	FJ01A	Analog Loop

LOOP DATA

Loop TAG	64-PT-031A			TSLD	123A90-FDL-IN-DG-40014 rev.1A		
IO Type	Input	Yes	Output No	Energy by transmitter	No	Energy by system	Yes
Marshalling	B400-PCS-001	Terminal	06A/06B	Slot	01	Rack 02	Chanel 06

LOOP TEST

1	Check earth isolation of the loop						OK
2	Connect loop to terminal						OK
3	Confirm Process Scale	Unit	barg	Min	0	Max 10	OK

LOOP RANGE			0%	25%	50%	75%	100%
4	Physical value applied for test	Unit barg	0	2,5	5	7,5	10
5	Control System Display	Unit barg	0	2,49	4,98	7,49	10

LOOP SERVICE

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

TESTING & MEASUREMENT INSTRUMENT USED

Type	Serial N.	Calibration Certificate	Validity
HYDRAULIC PUMP	06/190151		
PRESSURE SENSOR	930547		

LOOP DOCUMENTATION

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

Comments:

Page 1/1	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	
Name	Laurentiu Grozavu	Giandonato Delmissier	John Mackillop
Date	2025-03-17	2025-03-18	2025-03-19
Signature	PROVERLIS Digitaly signed by Laurentiu Grozavu 2025-03-17T14:23:00.388Z	PROVERLIS Digitaly signed by Giandonato Delmissier 2025-03-18T06:59:14.270Z	PROVERLIS Digitaly signed by John Mackillop 2025-03-19T12:16:16.712Z

ABR SERVICE S.r.l.
Via Manlio Monti, 40 – 48123 RAVENNA
Tel. +39 0544 685411 info@abrservice.net
C.F. Part. IVA 02764420390

Plant	CROSSWIND	Description	NITROGEN FROM A-64000 TO NITROGEN DISTR. HEADER		
Area	N.P.	Loop Tag	64-PI-031A	Instrument Tag	64-PT-031A
Type of verification	periodic	Calibration range	0,00 ÷ 10,00 bar	Report N°	023
Type of instrument	Pressure meter	Max uncertainty required	± 0,070 % s.r.	Reference procedure data sheet	123A90-PML-QHSE-PRO-00122 Page N°8

UNDER EXAMINATION INSTRUMENT 'S DATA

Tag	Manufacture	Model	S/N
64-PT-31A	SPRIANO	SST76	SE240654

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	0640/MP/2024_LAT 150	± 0,001 c.s.	24/04/2024
Digital pressure gauge				± 0,001 c.s.	24/04/2024

environment temperature at the time of check 25 °C

Value indicated before starting the check 0 bar

CHECK RESULT: *as found*

Verification functionality loop check

Generated value	Expected value	Read value	Error	Error % on s.r.
bar	mA	mA	mA	
0,00	4,00	4,000	+0,000	+0,000
2,50	8,00	7,999	-0,001	-0,006
5,00	12,00	11,994	-0,006	-0,039
7,50	16,00	15,998	-0,002	-0,013
10,00	20,00	20,000	+0,000	+0,000
7,50	16,00	15,999	-0,001	-0,006
5,00	12,00	11,995	-0,005	-0,031
2,50	8,00	8,000	+0,000	+0,000
0,00	4,00	4,001	+0,001	+0,006
		max error detected %		0,039

Check: PASSED

Verification activation of blocks/threshold alarms

Alarm signalling	Type of activation	Alarm intervention	Block description	Action type	Block intervention
bar					

Blocks/alarms check:

Corrective action

CHECK RESULT: *as left*

Verification functionality loop check

Generated value	Expected value	Read value	Error	Error % on s.r.
bar	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
bar	DESCENT				

Blocks/alarms check:

Value indicated after the check 0 bar

Note:

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

Verification Date	Verification Expiration	Technical Executor	Viewed	Approved by
18/09/2024	09/2025	PENSO SILVIO		
		signature	*signature*	*signature*

ABR SERVICE srl
Via M. Monti, 40 - 48123 RAVENNA
Tel. 0544 685411
C.F. e P.IVA 02764420390

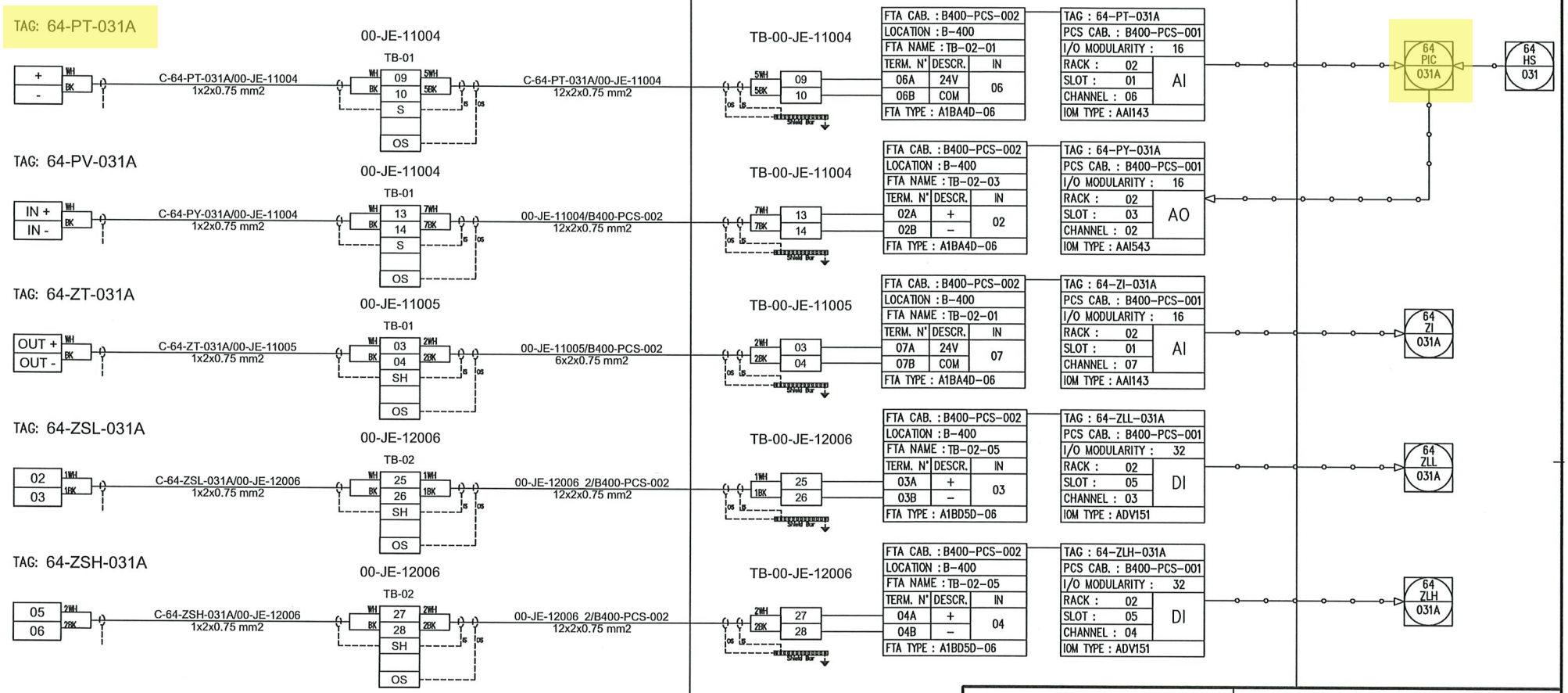
GENERAL	1	Tag Number		64-PT-031A	
	2	Service		NITROGEN FROM A-64000 TO NITROGEN DISTRIBUTION HEADER	
	3	P&ID Number	Location	123A90-DDL-PR-PID-80027	1"-N-100-01CS-N
	4	Function		PRESSURE MEASUREMENT	
	5	Mounting		DIRECT ON-LINE	
	6	Area Classification		ATEX Zone2 - IIC (IIB+H2) T1	
	7	Ambient Temperature		Min: -8.4 °C, Norm: 10.5 °C, Max: +25.0 °C.	
PROCESS CONDITIONS	8	Fluid		NITROGEN	
	9	Pressure Des.	Oper. [barg]	10	7(Max.)
	10	Temperature Des.	Oper. [°C]	100	AMB
	11	Oper. Spec. Gravity	Oper. Viscosity	-	-
	12	Flow Rate	Allowable Temp.	-	-
TRANSMITTER	13	Instrument Range Min.	Max. [barg]	0	30
	14	Calibration Range Min.	Max. [barg]	0	10
	15	Elevation	Suppression	-	-
	16	Element Type		Diaphragm	
	17	Element Material		SS AISI 316/316L	
	18	Body Material	Body Rating	AISI 316 SS	150 bar
	19	Process Connection		1/2" NPT-M	
	20	Wetted O-Rings Material		-	
	21	Fill Fluid		-	
	22	Bolts	Housing	Manifold/Instrument assembly	SS AISI 316/316L
	23	Paint		N/A	
	24	ATEX Certification	Ingress Protection	ATEX Ex II 2G Ex db IIC T5	IP66
	25	Process Connection	Electrical Connection	1/2" NPT-M	2 X M20X1.5
	26	Accuracy		0.07% of Nominal Range	
	27	SIL Certification	PED Certification	-	Required
DIAPHRAGM SEAL	28	Process Connection & Rating		-	
	29	Diaphragm Material	Housing Material	-	-
	30	Fill Fluid	Capillary Material	-	-
	31	Capillary Type	Capillary Length	-	-
	32	Flushing Connection		-	
OPTIONS	33	Integral Meter	Scale	Required	-
	34	Hydrostatic Testing	Cleaning	Required	-
	35	Mounting Brackets	Manifold Model No	Required	MAN2-R6
	36	Lightning Protection	Barrier Manuf./Model	-	-
COMMUNICATION AND SOFTWARE	37	Communication Type	Signal Type	HART 6	4-20mA Loop Powered 24 Vdc
	38	D D Revision	CFF Revision	-	-
	39	Device Tag	Hart Tag	-	-
	40	Internal Diagnostics	Capacitance	-	-
	41	Segment	Device Address	-	-
	42	Device Class	Simulate	-	-
	43	Nominal Current	Operating Voltage	-	-
PURCHASE	44	Manufacturer		TERRANOVA SRL	
	45	Model		SST76-H-7-K-2-0-2-1-4 + MAN2-R6	
	46	Purchase Order Number		4718_OS	

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

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

FIELD | ITER – B400 | CENTRAL CONTROL ROOM

PROCESS CONTROL SYSTEM | OPERATOR CONSOLE



NO MARK UP
L Gwozdz
08/03/25

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
64-PIC-031A
NITROGEN PRESSURE CONTROL TO DISTRIBUTION HEADER

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 037 | REV. 01

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

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	64-PT-031B	: Pressure Transmitter - Nitrogen Pressure Control to Distribution Header	Dwg	123A90-DDL-IN-DS-40039
	S/Sys	64-10	: Nitrogen Distribution Network	Module	LD
TASK	code	C10003188	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	PRE-COMM	Activity: FTS	Discipline: Instrumental	Form: FJ01A		Analog Loop

LOOP DATA

Loop TAG	64-PT-031B			TSLD	123A90-FDL-IN-DG-40014 rev.1A		
IO Type	Input: Yes	Output: No		Energy by transmitter: No		Energy by system: Yes	
Marshalling	B400-PCS-001	Terminal: 05A/05B		Slot: 01	Rack: 03	Chanel: 05	

LOOP TEST

1	Check earth isolation of the loop					OK
2	Connect loop to terminal					OK
3	Confirm Process Scale	Unit: barg	Min: 0	Max: 10		OK

LOOP RANGE

			0%	25%	50%	75%	100%
4	Physical value applied for test	Unit: barg	0	2,5	5	7,5	10
5	Control System Display	Unit: barg	0	2,49	4,99	7,49	10

LOOP SERVICE

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

TESTING & MEASUREMENT INSTRUMENT USED

Type	Serial N.	Calibration Certificate	Validity
HYDRAULIC PUMP	06/190151		
PRESSURE SENSOR	930547		

LOOP DOCUMENTATION

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

Comments:

Page 1/1	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	CW
Name	Laurentiu Grozavu	Giandonato Delmissier	John Mackillop
Date	2025-03-18	2025-03-18	2025-03-19
Signature	PROVERLIS Digitaly signed by Laurentiu Grozavu 2025-03-18T12:52:11.380Z	PROVERLIS Digitaly signed by Giandonato Delmissier 2025-03-18T17:07:10.842Z	PROVERLIS Digitaly signed by John Mackillop 2025-03-19T12:16:29.596Z

ABR SERVICE S.r.l.
Via Manlio Monti, 40 – 48123 RAVENNA
Tel. +39 0544 685411 info@abrservice.net
C.F. Part. IVA 02764420390

Plant	CROSSWIND	Description	NITROGEN FROM U-64000 TO NITROGEN DISTR. HEADER		
Area	N.P.	Loop Tag	64-PI-031B	Instrument Tag	64-PT-031B
Type of verification	periodic	Calibration range	0,00 ÷ 10,00 bar	Report N°	024
Type of instrument	Pressure meter	Max uncertainty required	± 0,070 % s.r.	Reference procedure data sheet	123A90-PML-QHSE-PRO-00122 Page N°8

UNDER EXAMINATION INSTRUMENT 'S DATA

Tag	Manufacture	Model	S/N
64-PT-031B	SPRIANO	SST76	SE240655

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	0640/MP/2024 _LAT 150	± 0,001 c.s.	24/04/2024
Digital pressure gauge				± 0,001 c.s.	24/04/2024

environment temperature at the time of check 25 °C

Value indicated before starting the check 0 bar

CHECK RESULT: *as found*

Verification functionality loop check

Generated value	Expected value	Read value	Error	Error % on s.r.
bar	mA	mA	mA	
0,00	4,00	4,000	+0,000	+0,000
2,50	8,00	7,998	-0,002	-0,012
5,00	12,00	11,995	-0,005	-0,031
7,50	16,00	15,992	-0,008	-0,050
10,00	20,00	19,999	-0,001	-0,006
7,50	16,00	15,994	-0,006	-0,038
5,00	12,00	11,994	-0,006	-0,038
2,50	8,00	7,997	-0,003	-0,019
0,00	4,00	4,001	+0,001	+0,006
		max error detected %		0,050

Check: PASSED

Verification activation of blocks/threshold alarms

Alarm signalling	Type of activation	Alarm intervention	Block description	Action type	Block intervention
bar					

Blocks/alarms check:

Corrective action

CHECK RESULT: *as left*

Verification functionality loop check

Generated value	Expected value	Read value	Error	Error % on s.r.
bar	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
bar	DESCENT				

Blocks/alarms check:

Value indicated after the check 0 bar

Note:

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

Verification Date	Verification Expiration	Technical Executor	Viewed	Approved by
18/09/2024	09/2025	PENSO SILVIO		
		signature	signature	signature

ABR SERVICE srl
Via M. Monti, 40 - 48123 RAVENNA
Tel. 0544 685411
C.F. e P.IVA 02764420390

GENERAL	1	Tag Number		64-PT-031B	
	2	Service		NITROGEN FROM U-64000 TO NITROGEN DISTRIBUTION HEADER	
	3	P&ID Number	Location	123A90-DDL-PR-PID-80027	1"-N-100-01CS-N
	4	Function		PRESSURE MEASUREMENT	
	5	Mounting		DIRECT ON-LINE	
	6	Area Classification		ATEX Zone2 - IIC (IIB+H2) T1	
	7	Ambient Temperature		Min: -8.4 °C, Norm: 10.5 °C, Max: +25.0 °C.	
PROCESS CONDITIONS	8	Fluid		NITROGEN	
	9	Pressure Des.	Oper. [barg]	10	7(Max.)
	10	Temperature Des.	Oper. [°C]	100	AMB
	11	Oper. Spec. Gravity	Oper. Viscosity	-	-
	12	Flow Rate	Allowable Temp.	-	-
TRANSMITTER	13	Instrument Range Min.	Max. [barg]	0	30
	14	Calibration Range Min.	Max. [barg]	0	10
	15	Elevation	Suppression	-	-
	16	Element Type		Diaphragm	
	17	Element Material		SS AISI 316/316L	
	18	Body Material	Body Rating	AISI 316 SS	150 bar
	19	Process Connection		1/2" NPT-M	
	20	Wetted O-Rings Material		-	
	21	Fill Fluid		-	
	22	Bolts	Housing	Manifold/Instrument assembly	SS AISI 316/316L
	23	Paint		N/A	
	24	ATEX Certification	Ingress Protection	ATEX Ex II 2G Ex db IIC T5	IP66
	25	Process Connection	Electrical Connection	1/2" NPT-M	2 X M20X1.5
	26	Accuracy		0.07% of Nominal Range	
	27	SIL Certification	PED Certification	-	Required
DIAPHRAGM SEAL	28	Process Connection & Rating		-	
	29	Diaphragm Material	Housing Material	-	-
	30	Fill Fluid	Capillary Material	-	-
	31	Capillary Type	Capillary Length	-	-
	32	Flushing Connection		-	
OPTIONS	33	Integral Meter	Scale	Required	-
	34	Hydrostatic Testing	Cleaning	Required	-
	35	Mounting Brackets	Manifold Model No	Required	MAN2-R6
	36	Lightning Protection	Barrier Manuf./Model	-	-
COMMUNICATION AND SOFTWARE	37	Communication Type	Signal Type	HART 6	4-20mA Loop Powered 24 Vdc
	38	D D Revision	CFF Revision	-	-
	39	Device Tag	Hart Tag	-	-
	40	Internal Diagnostics	Capacitance	-	-
	41	Segment	Device Address	-	-
	42	Device Class	Simulate	-	-
	43	Nominal Current	Operating Voltage	-	-
PURCHASE	44	Manufacturer		TERRANOVA SRL	
	45	Model		SST76-H-7-K-2-0-2-1-4 + MAN2-R6	
	46	Purchase Order Number		4718_OS	

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

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

FIELD | ITER – B400 | CENTRAL CONTROL ROOM

PROCESS CONTROL SYSTEM | OPERATOR CONSOLE

TAG: 64-PT-031B

+ / - (WH / BK)

C-64-PT-031B/00-JE-11004
1x2x0.75 mm2

00-JE-11004
TB-01
11 (6WH) / 12 (6BK) / S / OS

C-64-PT-031B/00-JE-11004
12x2x0.75 mm2

TB-00-JE-11004
6WH 11 / 6BK 12 — OS LS — Shield Bar

FTA CAB. : B400-PCS-002		
LOCATION : B-400		
FTA NAME : TB-03-01		
TERM. N°	DESCR.	IN
TM1-..A	24V	05
TM1-..B	COM	
FTA TYPE : A1BA4D-06		

TAG : 64-PT-031B		
PCS CAB. : B400-PCS-001		
I/O MODULARITY :	16	
RACK :	03	AI
SLOT :	01	
CHANNEL :	05	
IOM TYPE : AAI143		

64 PIC 031B — 64 HS 031B

TAG: 64-PV-031B

IN + / IN - (WH / BK)

C-64-PY-031B/00-JE-11004
1x2x0.75 mm2

00-JE-11004
TB-01
15 (6WH) / 16 (6BK) / S / OS

00-JE-11004/B400-PCS-002
12x2x0.75 mm2

TB-00-JE-11004
6WH 15 / 6BK 16 — OS LS — Shield Bar

FTA CAB. : B400-PCS-002		
LOCATION : B-400		
FTA NAME : TB-03-03		
TERM. N°	DESCR.	IN
02A	+	02
02B	–	
FTA TYPE : A1BA4D-06		

TAG : 64-PY-031B		
PCS CAB. : B400-PCS-001		
I/O MODULARITY :	16	
RACK :	03	AO
SLOT :	03	
CHANNEL :	02	
IOM TYPE : AAI543		

TAG: 64-ZT-031B

OUT + / OUT - (WH / BK)

C-64-ZT-031B/00-JE-11005
1x2x0.75 mm2

00-JE-11005
TB-01
05 (3WH) / 06 (3BK) / SH / OS

00-JE-11005/B400-PCS-002
6x2x0.75 mm2

TB-00-JE-11005
3WH 05 / 3BK 06 — OS LS — Shield Bar

FTA CAB. : B400-PCS-002		
LOCATION : B-400		
FTA NAME : TB-03-01		
TERM. N°	DESCR.	IN
06A	24V	06
06B	COM	
FTA TYPE : A1BA4D-06		

TAG : 64-ZI-031B		
PCS CAB. : B400-PCS-001		
I/O MODULARITY :	16	
RACK :	03	AI
SLOT :	01	
CHANNEL :	06	
IOM TYPE : AAI143		

64 ZI 031B

TAG: 64-ZSL-031B

02 / 03 (1WH / 1BK)

C-64-ZSL-031B/00-JE-12006
1x2x0.75 mm2

00-JE-12006
TB-02
29 (3WH) / 30 (3BK) / SH / OS

00-JE-12006 2/B400-PCS-002
12x2x0.75 mm2

TB-00-JE-12006
3WH 29 / 3BK 30 — OS LS — Shield Bar

FTA CAB. : B400-PCS-002		
LOCATION : B-400		
FTA NAME : TB-03-05		
TERM. N°	DESCR.	IN
03A	+	03
03B	–	
FTA TYPE : A1BD5D-06		

TAG : 64-ZLL-031B		
PCS CAB. : B400-PCS-001		
I/O MODULARITY :	32	
RACK :	03	DI
SLOT :	05	
CHANNEL :	03	
IOM TYPE : ADV151		

64 ZLL 031B

TAG: 64-ZSH-031B

05 / 06 (2WH / 2BK)

C-64-ZSH-031B/00-JE-12006
1x2x0.75 mm2

00-JE-12006
TB-02
31 (4WH) / 32 (4BK) / SH / OS

00-JE-12006 2/B400-PCS-002
12x2x0.75 mm2

TB-00-JE-12006
4WH 31 / 4BK 32 — OS LS — Shield Bar

FTA CAB. : B400-PCS-002		
LOCATION : B-400		
FTA NAME : TB-03-05		
TERM. N°	DESCR.	IN
04A	+	04
04B	–	
FTA TYPE : A1BD5D-06		

TAG : 64-ZLH-031B		
PCS CAB. : B400-PCS-001		
I/O MODULARITY :	32	
RACK :	03	DI
SLOT :	05	
CHANNEL :	04	
IOM TYPE : ADV151		

64 ZLH 031B

NO MARK UP
08/03/25

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
64-PIC-031B
NITROGEN PRESSURE CONTROL TO DISTRIBUTION HEADER

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 038 | REV. 01

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

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	64-SDV-001	: On/Off Valve - Nitrogen to Distribution Header Shut-Down		Dwg	123A90-DDL-IN-LIS-40088	
	S/Sys	64-10	: Nitrogen Distribution Network		Module		
TASK	code	C10003231	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	PRE-COMM	Activity FTS	Discipline Instrumental	Form	FJ01V	ON/OFF Valve

Data

Loop TAG: 64-SDV-001 — TDSL Rev: 123A90-FDL-IN-DG-40014 rev.1A — Valve type: ON/OFF VALVE

Functional Test				Associated Tag	Comment	Result
Local reset						NA
Remote command : Solenoid valve 1 energized				64-SDY-001		OK
Remote command : Solenoid valve 2 energized						NA
Local indication of the valve position						OK
Open limit switch				64-ZSH-001		OK
Closed limit switch				64-ZSL-001		OK
Pressure transmitter on control line						NA
Local closing command						NA
Local opening command						NA
Opening time	1 sec	Restriction adjusted	No			OK
Closing time	1 sec	Restriction adjusted	No			OK
Interlock function						NA
Fail safe position on loss of electrical signal				CLOSE		OK
Fail safe position on loss of power fluid				CLOSE		OK
Timer checking					4 SEC.	OK
Number of operations on accumulator						NA
ESD signal and solenoid valve test facility						OK
Solenoid valve override indication on ICS						OK
Local indication of the solenoid valve deenergization						NA
Partial stroke cheching						NA

TESTING & MEASUREMENT INSTRUMENT USED

Type	Serial N.	Calibration Certificate	Validity
MULTIMETER FLUKE 175	AW1/018 17140769	7715/24	10/07/2025

Comments:

Page 1/1	Performed by	☑ WITNESS ☐ REVIEW	☑ WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	CROSSWIND
Name	Laurentiu Grozavu	Giandonato Delmissier	Gerry McCann
Date	2025-03-20	2025-03-20	2025-03-26
Signature	PROVERLIS Digitaly signed by Laurentiu Grozavu 2025-03-20T08:12:51.018Z	PROVERLIS Digitaly signed by Giandonato Delmissier 2025-03-20T13:07:57.676Z	PROVERLIS Digitaly signed by Gerry McCann 2025-03-26T09:48:30.695Z

GENERAL	1	Tag Number	Location			64-SDV-001	64
	2	Service				NITROGEN TO H2 STORAGE VESSELS INLET	
	3	P&ID Number	Area Classification			123A90-DDL-PR-PID-80027	Zone 2, Gas Group IIC (or IIB+H2), Class T1
PIPELINE	4	Line Number				1"-N-128-03HSS-N	
	5	Line Size and Schedule	Inlet	Outlet		1" / 3.38 mm	1" / 3.38 mm
	6	Line Material	Line Insulation			ASTM A312/TP316/316L	NOT INSUL. (PAINTED) (35)
PROCESS DATA	7	Fluid				NITROGEN GAS	
	8	Fluid State	Phase			GAS	GAS
	9	Operating Pressure Norm/Min/Max			[barg]	6	- / -
	10	Design Pressure	Full Vacuum		[barg]	10	
	11	Operating Temperature Norm/Min/Max			[°C]	AMB	- / -
	12	Design Temperature	Minimum	Maxi	[°C]	-46	80
	13	Max. Diff. Pressure for Actuator Size			[bar]	10	
	14						
	15						
	16	Speed of	Design			Close : (12)	Open : (12)
	17	Operation (seconds)	Actual			Close : 0.3 minimum	Open : -
	18						
	19						
VALVE BODY (34)	20	Body Type				BALL VALVE (FLOATING BALL) - SPLIT BODY (BS03C01RFHS)	
	21	Body Size	Body Form			1"	FULL BORE
	22	Body Material	Bonnet Type			ASTM A182 F316/316L	(*)
	23	Connections	Rating			FLANGED ASME B16.5	#300
	24	Flange Finish	Gasket Material			RF	Inside the valve (*) (38)
	25	Packing	Lubrication & Isolation			A479 Tp. 316'(33)	II 2 G Ex h IIC T5 Gb
	26	Bolting				A193 B8M / A194 Gr. 8M	
	27	Trim Material	Ball	Stem	Seat	A182 F316 / 316L	API 6A CRA UNS N07718 / RPTFE
	28	Leakage Class				(1, 3) TSO	
	29	Fire Safe				(2)	
ACTUATOR	30	Manufacturer	Type			Rotork	Spring Return
	31	Model No.	Size			CP/S	035-080A/AA
	32	Actuator Orientation	Actuator Form			Horizontal	Cylinder
	33	Ingress Protection	Certification			IP-66	(9)
	34	Air Supply	Min	Max	Design	4 barg	10 barg / 11 barg
	35	Action on Air Failure	Action on Power Failure			CLOSE	CLOSE
	36	Fireproofing				NOT APPLICABLE	
	37	Solenoid Valve				64-SDY-001 (9, 14, 15, 16) - Bifold FP06P	
	38	Limit Switch Closed	Limit Switch Open			64-ZSL-001 (9, 17) - Soldo SS	64-ZSH-001 (9, 17) - Soldo SS
	39	Elect. Reset Pushbutton (Actuator mounted)				NOT REQUIRED	
	40	Air Set	Handwheel			(*)	NOT REQUIRED
	41	Mounting Position				HORIZONTAL	
	42	Partial Stroke Test Facility				NOT REQUIRED	
	43	Control Type				-	
	44	Electrical Connection	Electrical Class			No. (*) / M20	H
EMERGENCY A/S VESSEL	45	Capacity	Fabrication Code			-	- / -
	46	No of Strokes Per Capacity				-	
	47	Safety Valve	Model			-	-
	48	Check Valve	Mounting			-	-
PURCHASE	49	Manufacturer				FLUITEK	
	50	Model				FB3	
	51	Purchase Order Number				1724000204	

NOTE
(1) N.1 PSV INSTALLED DOWNSTREAM THE AIR FILTER REGULATOR, SIZE 1/4", SS, set 4.7 barg.

No.	Date	By	Chkd	Appr	Description
03	06/12/24				
02	28/08/24	VBA	LCA	DLO	Accepted for Construction (AFC)
01	20/12/23	VBA	LCA	DLO	Issued for Review (IFR)

INSTRUMENT DATASHEET

SDV/BDV and Tight Shut-Off XV Valves

CROSSWIND

ROSETTI MARINO

Sheet 15 of 33

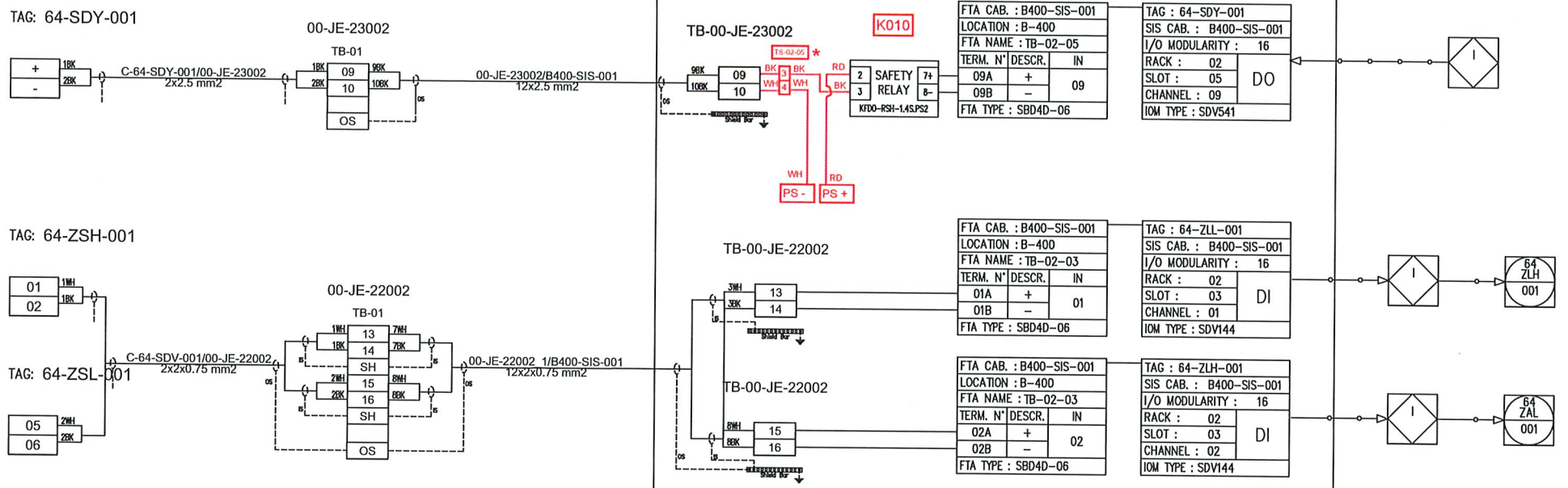
Code : Dwg. No.: 123A90-DDL-IN-DS-40030 Rev.03

This document undergoes an issuance cycle within EDMS "Fusionlive".
Its distribution is electronically controlled. Once printed shall be considered as “NOT CONTROLLED” copy

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

FIELD | ITER – B400 | CENTRAL CONTROL ROOM

SAFETY INSTRUMENTED SYSTEM | OPERATOR CONSOLE



AS BUILT
25/02/25

* ALL NEGATIVE TERMINALS ON TB-02-05 ARE FUSABLE TERMINAL

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
64-SDV-001
NITROGEN TO DISTRIBUTION HEADER SHUTDOWN

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 102 | REV. 01

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

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	64-PIC-031A	: Nitrogen pressure control to distribution header		Dwg	123A90-DDL-PR-PID-80027	
	S/Sys	64-10	: Nitrogen Distribution Network		Module		
TASK	code	C10003763	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	PRE-COMM	Activity	FTS	Discipline	Instrumental	Form	FJ01C	Control Loop

Data

Loop TAG 64-PIC-031A TDSL Rev: 123A90-FDL-IN-DG-40014 rev.1A Valve type : CONTROL VALVE

Loop Type Direct Yes Reverse No Cascade Yes Redundant valve NA Split Range NA

Transmitter A	64-PT-031A		**Transmitter B**	NA
Scale	0-10	OK	Scale	NA
Unit	barg	OK	Unit	NA
Threshold 1 Value	6 barg	OK	Threshold 1 Value	NA
Threshold 2 Value	8 barg	OK	Threshold 2 Value	NA
Threshold 3 Value			Threshold 3 Value	NA
Threshold 4 Value			Threshold 4 Value	NA

Normal state versus faulty process conditions: NA

Associated outputs (e.g. start motor):

Valve 1	64-PV-031A	**Valve 2**	NA
Cabinet / Rack / slot / channel	B400-PCS-001/02/03/02	Cabinet / Rack / slot / channel	
Failure position (FC/ FO/FL)	FC	Failure position (FC/ FO/FL)	
Air Supply Pressure (bar)	4 barg	Air Supply Pressure (bar)	
Stroke limitation (mech. stop)	NA	Stroke limitation (mech. stop)	

Controler in Manual Mode

Controler in manual mode	0%	25%	50%	75%	100%
Control Valve 1 position	0,2	25,2	50,1	74,9	99,8
Control Valve 2 position					

Controller in Auto Mode

Checking of Controller D/R Mode (Slave if cascade): OK

Checking of Master D/R (Mode cascade only): OK

TESTING & MEASUREMENT INSTRUMENT USED

Type	Serial N.	Calibration Certificate	Validity

Comments:

	Performed by	WITNESS REVIEW	WITNESS REVIEW
Company	RM COMM	RM COMM	
Name	Laurentiu Grozavu	Giandonato Delmissier	David Musgrove
Date	2025-03-24	2025-03-25	2025-03-26

Digitaly signed by Laurentiu Grozavu 2025-03-24T10:15:11.961Z

Digitaly signed by Giandonato Delmissier 2025-03-25T07:54:36.588Z

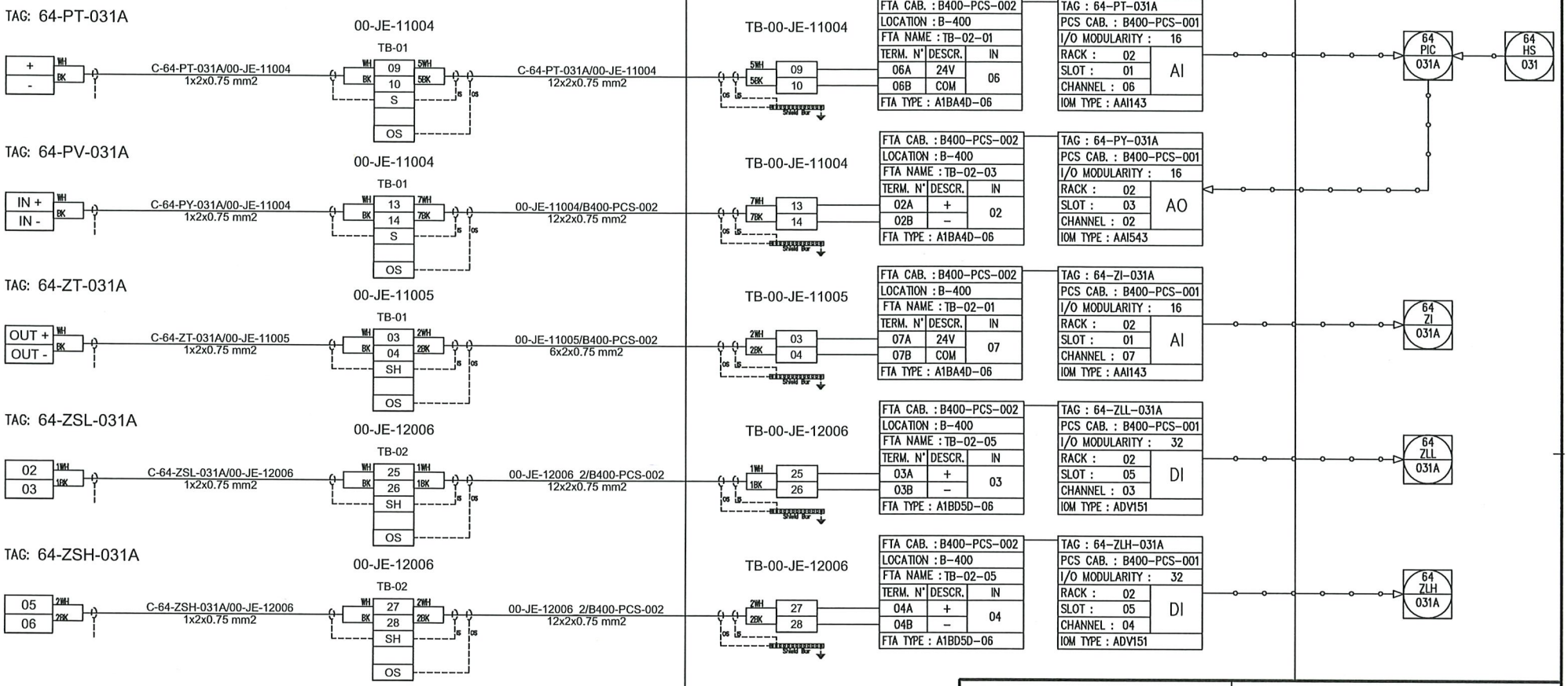
Digitaly signed by David Musgrove 2025-03-26T17:14:17.362Z

Signature			

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

FIELD | ITER – B400 | CENTRAL CONTROL ROOM

PROCESS CONTROL SYSTEM | OPERATOR CONSOLE



NO MARK UP
L Gugliemi
08/03/25

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
64-PIC-031A
NITROGEN PRESSURE CONTROL TO DISTRIBUTION HEADER

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 037 | REV. 01

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

ROSETTI MARINO — CROSSWIND

ITEM	Tag	64-PIC-031B	: Nitrogen pressure control to distribution header		Dwg	123A90-DDL-PR-PID-80027	
	S/Sys	64-10	: Nitrogen Distribution Network		Module		
TASK	code	C10003765	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	PRE-COMM	Activity	FTS	Discipline	Instrumental	Form	FJ01C	Control Loop

Data

Loop TAG 64-PIC-031B TDSL Rev: 123A90-FDL-IN-DG-40014 rev.1A Valve type : CONTROL VALVE

Loop Type Direct Yes Reverse No Cascade Yes Redundant valve NA Split Range NA

Transmitter A	64-PT-031B		**Transmitter B**	NA
Scale	0-10	OK	Scale	NA
Unit	barg	OK	Unit	NA
Threshold 1 Value	6 barg	OK	Threshold 1 Value	NA
Threshold 2 Value	8 barg	OK	Threshold 2 Value	NA
Threshold 3 Value		NA	Threshold 3 Value	NA
Threshold 4 Value		NA	Threshold 4 Value	NA

Normal state versus faulty process conditions: NA

Associated outputs (e.g. start motor): NA

Valve 1	64-PV-031B	**Valve 2**	NA
Cabinet / Rack / slot / channel	B400-PCS-001/03/03/02	Cabinet / Rack / slot / channel	
Failure position (FC/ FO/FL)	FC	Failure position (FC/ FO/FL)	
Air Supply Pressure (bar)	4 barg	Air Supply Pressure (bar)	
Stroke limitation (mech. stop)	NA	Stroke limitation (mech. stop)	

Controler in Manual Mode

Controler in manual mode	0%	25%	50%	75%	100%
Control Valve 1 position	0,3	25	50,2	75,1	99,9
Control Valve 2 position					

Controller in Auto Mode

Checking of Controller D/R Mode (Slave if cascade): OK

Checking of Master D/R (Mode cascade only): OK

TESTING & MEASUREMENT INSTRUMENT USED

Type	Serial N.	Calibration Certificate	Validity

Comments:

	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	
Name	Laurentiu Grozavu	Giandonato Delmissier	David Musgrove
Date	2025-03-24	2025-03-25	2025-03-26

Digitaly signed by Laurentiu Grozavu 2025-03-24T10:15:24.652Z

Digitaly signed by Giandonato Delmissier 2025-03-25T07:55:14.272Z

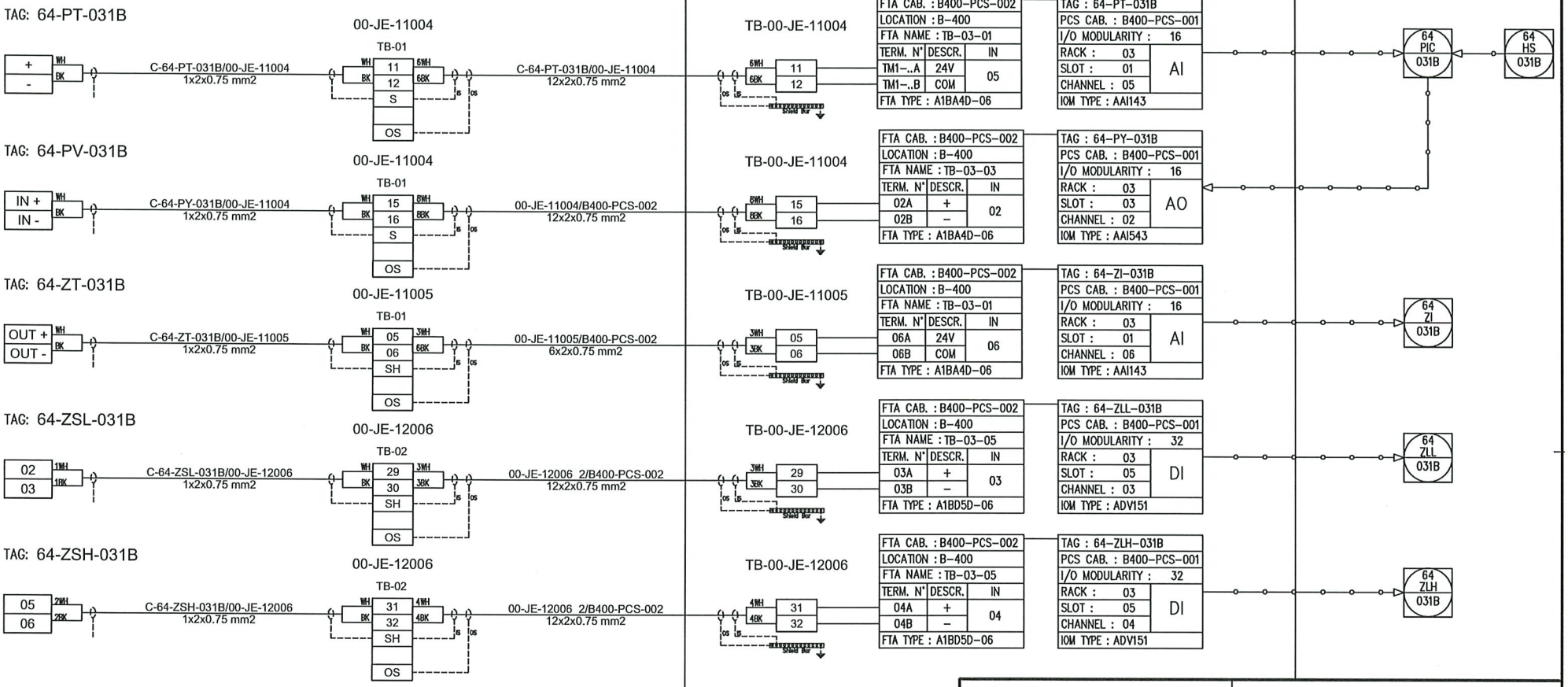
Digitaly signed by David Musgrove 2025-03-26T17:14:58.660Z

Signature			

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

FIELD | ITER – B400 | CENTRAL CONTROL ROOM

PROCESS CONTROL SYSTEM | OPERATOR CONSOLE



NO MARK UP
08/03/25

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
64-PIC-031B
NITROGEN PRESSURE CONTROL TO DISTRIBUTION HEADER

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 038 | REV. 01

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

ROSETTI MARINO — PROVERLIS — CROSSWIND

ITEM	Tag	64-PV-031A	: Control Valve - Nitrogen Pressure Control to Distribution Header		Dwg	123A90-DDL-IN-LIS-40088	
	S/Sys	64-10	: Nitrogen Distribution Network		Module	LD	
TASK	code	C10004390	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	PRE-COMM	Activity FTS	Discipline Instrumental	Form FJ04		Control Valve

PRE-TEST CHECKS

Confirm all preservation measures have been removed	OK
Confirm all MC ITRs for the tags in the loop are completed	OK
Check all referent drawings/ documents are at latest revision	OK
Check that relevant loop component(s) on the loop diagram is/ are calibrated	OK
Verify device(s) configuration against data sheet to ensure all settings are aligned	OK
Confirm all necessary power/ hydraulic/ instrument air supply is available (de-isolated)	OK

FUNCTIONAL TESTS

Remote/ Stop/ Local selector test **Remote:** (*) **Stop:** (*) **Local:** (

CONTROLLER LOOP TEST

	Rising					Falling			
	0%	25%	50%	75%	100%	75%	50%	25%	0%
ICSS Output (mA)	4	8	12	16	20	16	12	8	4
Position on control valve	0,2	25,2	50,1	74,9	99,8	74,9	50,1	24,9	0,2
Control valve position on field display (if applicable)	0,2	25,2	50,1	74,9	99,8	74,9	50,1	24,9	0,2
Control valve position on ICSS (if applicable)	0	25	50	75	100	75	50	25	0

	Full Opening Time	sec.	Full Closing Time	sec.
Stroke Limitation Test	Opening	%	Closing	%
Output limitation	Opening	%	Closing	%

Communication fault alarm (ONLY for valve with redundant communication)

Communication lost position	☐	**OPENED**	●	**CLOSED**	☐ **STAY PUT**	**%**
Power lost position	☐	**OPENED**	●	**CLOSED**	☐ **STAY PUT**	**%**
Actuator fault alarm	☐	**Hard wired**	●	**Soft signal**		

ICSS/HMI CHECKS

Checking for fault mode on ICSS (short and open circuit)	OK
Verify HMI graphic and faceplate indicate all animations (i.e. Alarm, Inhibit/ Block, Fault, etc.) correctly	OK
Verify all alarms and events (i.e. Alarm, Inhibit/ Block, Fault, etc.) shows correctly on alarm list	OK

TESTING & MEASUREMENT INSTRUMENT USED

Type	Serial N.	Calibration Certificate	Validity

Comments:

Page 1/1	Performed by	● WITNESS ☐ REVIEW	● WITNESS ☐ REVIEW
Company	RM COMM		
Name	Laurentiu Grozavu	Giandonato Delmissier	David Musgrove
Date	2025-03-24	2025-03-25	2025-03-26
Signature	PROVERLIS Digitaly signed by Laurentiu Grozavu 2025-03-24T10:16:04.308Z	PROVERLIS Digitaly signed by Giandonato Delmissier 2025-03-25T07:59:31.188Z	PROVERLIS Digitaly signed by David Musgrove 2025-03-26T21:08:11.681Z

AST S.p.A.
CONTROL VALVES DIVISION

Via R. Merendi, 40
20010 Cornaredo MI
ITALY

P +39 02 934848.1
W www.astspa.it
F +39 02 9362248

Customer: ROSETTI MARINO

Plant / Site: HOLLANDSE KUST NOORD WIND PARK Prj.

Quotation Ref./Job Ref.: OV2301646/CV2400221

DSH REV. 2 - 04/06/2024 - 0

Final Installation: NL

1	Item	**40**	49	Q.ty	2
2	Valve tag / S.No	**64-PV-031A/B / 2400597 ÷ 2400598**	50	Valve Service	NITROGEN FROM NITROGEN SYSTEM (A-64000) TO HEADER

PIPING AND DESIGN CONDITIONS

PIPING

3	Piping Size / Ext.Diam	1"	
4	Schedule / Thickness	80	
5	Pipe Insulation	No	
6	Installation Location	Outdoor	

AMBIENCE AND DESIGN CONDITIONS

51	Inlet / Outlet Design Pressure	10	bar g
52	Inlet / Outlet Design Temperature	100	°C
53	Tmin / Tmax	-8.4 / +25	°C
54	Certification / Classific.Area	PED+ATEX / Zone 2	

VALVE CONSTRUCTION

VALVE CHARACTERISTICS

7	Valve Model	CV-8407	
8	Valve Type	Globe	
9	Valve Layout	Straight	
10	Bonnet type	Bolted	
11	Guiding Type	Top Guided	
12	No.Ports	1	
13	Flow direction	to Open	
14	Trim Type	Contoured Plug	
15	Port Size	3/8"	Inch
16	CV / Characteristics	1.9 / Equal%	
17	Body Size	1"	
18	Rating Standard	ASME B16.34	
19	Pressure Class	150#	
20	End Connection Standard	ASME B16.5	
21	End Connection Type	RF	
22	End Connection Finishing	-	
23	Stroke	13	mm
24	Shut-off Direction	Direct	
25	Leakage Class	V - IEC 60534-4	
26	Shut-off pressure	10	bar g

MATERIALS

55	Body Material	A350 LF2
56	Bonnet Material	A350 LF2
57	Boltings	A193 B8M Cl. 2 / A194 8M
58	Bellows Material	-
59	Plug / Vane Material	A479 316L + CoCr-A
60	Seat Material	A479 316L + CoCr-A
61	Cage Material	-
62	Guide Material	-
63	Stem Material	A 479 316L
64	VE-CO LT Material	-
65	Seating Type	Metallic
66	Balancing Material	-

PACKING

67	Packing Material	PTFE
68	Live Loading	-
69	Stem Flushing	-

DEVICES

70	Inlet Device	-
71	Inlet Device Size	-
72	Outlet Device	-
73	Outlet Device Size	-
74	Body Heating	-

ACTUATOR AND ACCESSORIES

ACTUATOR

27	Fail Position	Closed	
28	Actuation Type / Model	Pneumatic Diaphragm	
29	Actuator Action	Reverse	
30	Actuator Size	SD11R	
31	Spring Range	15-30 psi	
32	Supply	50- psi	
33	Design Supply	11 barg	
34	Handwheel	-	
35	Mechanical Stop	-	
36	Throttling Time	<10	s
37	Quick Stroking Time	-	s
38	Yoke Material	CS	
39	Pneumatic Tubing Material	AISI 316	
40	Pneumatic Fittings	AISI 316 Double Ferrule	
41	Pneumatic Connection Size	1/4" NPT-F	

POSITIONER

42	Positioner Model	TISSIN TS900
43	Type	Smart Digital
44	Input Signal / Protocol	4-20 mA HART
45	Fail Safety	Fail safe
46	Output Signal	4-20 mA
47	Prot. Class / Encl. Material / El. Classif.	IP66 / AISI 316 / Eexd \ C T4-T6
48	El.Conn. / Pn.Conn.	M20x1.5 \ 1/4" NPT-F

FILTER REGULATOR

75	Fr. Model	FR04411S00SSNB2
76	Pn.Conn. / Body Material	1/4" NPT-F / S.Steel

BOOSTER

77	Booster Model	-
78	Pn.Conn. / Body Material	-

SOLENOID VALVE

79	SOV Model	-
80	Body Material	-
81	Prot. Class / El. Classif.	-
82	El.Conn. / Pn.Conn.	-
83	Supply	-
84	Power Consumption	-

PNEUMATIC VALVE

85	Pneumatic Discharge Model	-
86	Pn.Conn. / Body Material	-

LOCK UP VALVE

87	Lock Up Model	-
88	Pn.Conn. / Body Material	-

LIMIT SWITCH

89	Limit Switch Model	1 x GDSN0LIS2MS290 EISENBAU
90	Type	SPDT
91	Contact Type	-
92	Encl.Material	316SS
93	El.Connection	M20x1,5
94	Prot. Class / El. Classif.	IP66 / MIN. Ex-d IIC (or IIB+H2) T1

NOTES

N.1	n°1 PSV installed downstream the air filter regulator, size 1/4", st.ast., set 6 barg (CE)
N.2	
N.3	
N.4	
N.5	
N.6	
N.7	

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

FIELD | ITER – B400 | CENTRAL CONTROL ROOM

PROCESS CONTROL SYSTEM | OPERATOR CONSOLE

TAG: 64-PT-031A

+ / - (WH / BK)

C-64-PT-031A/00-JE-11004
1x2x0.75 mm2

00-JE-11004
TB-01
09 (WH) / 10 (BK) / S / OS

C-64-PT-031A/00-JE-11004
12x2x0.75 mm2

TB-00-JE-11004
09 / 10

FTA CAB. : B400-PCS-002		
LOCATION : B-400		
FTA NAME : TB-02-01		
TERM. N°	DESCR.	IN
06A	24V	06
06B	COM	
FTA TYPE : A1BA4D-06		

TAG : 64-PT-031A		
PCS CAB. : B400-PCS-001		
I/O MODULARITY :	16	
RACK :	02	AI
SLOT :	01	
CHANNEL :	06	
IOM TYPE : AAI143		

64 PIC 031A → 64 HS 031

TAG: 64-PV-031A

IN + / IN - (WH / BK)

C-64-PY-031A/00-JE-11004
1x2x0.75 mm2

00-JE-11004
TB-01
13 (WH) / 14 (BK) / S / OS

00-JE-11004/B400-PCS-002
12x2x0.75 mm2

TB-00-JE-11004
13 / 14

FTA CAB. : B400-PCS-002		
LOCATION : B-400		
FTA NAME : TB-02-03		
TERM. N°	DESCR.	IN
02A	+	02
02B	–	
FTA TYPE : A1BA4D-06		

TAG : 64-PY-031A		
PCS CAB. : B400-PCS-001		
I/O MODULARITY :	16	
RACK :	02	AO
SLOT :	03	
CHANNEL :	02	
IOM TYPE : AAI543		

TAG: 64-ZT-031A

OUT + / OUT - (WH / BK)

C-64-ZT-031A/00-JE-11005
1x2x0.75 mm2

00-JE-11005
TB-01
03 (WH) / 04 (BK) / SH / OS

00-JE-11005/B400-PCS-002
6x2x0.75 mm2

TB-00-JE-11005
03 / 04

FTA CAB. : B400-PCS-002		
LOCATION : B-400		
FTA NAME : TB-02-01		
TERM. N°	DESCR.	IN
07A	24V	07
07B	COM	
FTA TYPE : A1BA4D-06		

TAG : 64-ZI-031A		
PCS CAB. : B400-PCS-001		
I/O MODULARITY :	16	
RACK :	02	AI
SLOT :	01	
CHANNEL :	07	
IOM TYPE : AAI143		

64 ZI 031A

TAG: 64-ZSL-031A

02 / 03 (1WH / 1BK)

C-64-ZSL-031A/00-JE-12006
1x2x0.75 mm2

00-JE-12006
TB-02
25 (1WH) / 26 (1BK) / SH / OS

00-JE-12006 2/B400-PCS-002
12x2x0.75 mm2

TB-00-JE-12006
25 / 26

FTA CAB. : B400-PCS-002		
LOCATION : B-400		
FTA NAME : TB-02-05		
TERM. N°	DESCR.	IN
03A	+	03
03B	–	
FTA TYPE : A1BD5D-06		

TAG : 64-ZLL-031A		
PCS CAB. : B400-PCS-001		
I/O MODULARITY :	32	
RACK :	02	DI
SLOT :	05	
CHANNEL :	03	
IOM TYPE : ADV151		

64 ZLL 031A

TAG: 64-ZSH-031A

05 / 06 (2WH / 2BK)

C-64-ZSH-031A/00-JE-12006
1x2x0.75 mm2

00-JE-12006
TB-02
27 (WH) / 28 (BK) / SH / OS

00-JE-12006 2/B400-PCS-002
12x2x0.75 mm2

TB-00-JE-12006
27 / 28

FTA CAB. : B400-PCS-002		
LOCATION : B-400		
FTA NAME : TB-02-05		
TERM. N°	DESCR.	IN
04A	+	04
04B	–	
FTA TYPE : A1BD5D-06		

TAG : 64-ZLH-031A		
PCS CAB. : B400-PCS-001		
I/O MODULARITY :	32	
RACK :	02	DI
SLOT :	05	
CHANNEL :	04	
IOM TYPE : ADV151		

64 ZLH 031A

NO MARK UP
L Gwozdz
08/03/25

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
64-PIC-031A
NITROGEN PRESSURE CONTROL TO DISTRIBUTION HEADER

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 037	REV. 01

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

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	64-PV-031B	: Control Valve - Nitrogen Pressure Control to Distribution Header		Dwg	123A90-DDL-IN-LIS-40088	
	S/Sys	64-10	: Nitrogen Distribution Network		Module	LD	
TASK	code	C10004391	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	PRE-COMM	Activity FTS	Discipline Instrumental	Form FJ04		Control Valve

PRE-TEST CHECKS

Confirm all preservation measures have been removed	OK
Confirm all MC ITRs for the tags in the loop are completed	OK
Check all referent drawings/ documents are at latest revision	OK
Check that relevant loop component(s) on the loop diagram is/ are calibrated	OK
Verify device(s) configuration against data sheet to ensure all settings are aligned	OK
Confirm all necessary power/ hydraulic/ instrument air supply is available (de-isolated)	OK

FUNCTIONAL TESTS

Remote/ Stop/ Local selector test **Remote:** (*) **Stop:** (*) **Local:** (

CONTROLLER LOOP TEST

	Rising					Falling			
	0%	25%	50%	75%	100%	75%	50%	25%	0%
ICSS Output (mA)	4	8	12	16	20	16	12	8	4
Position on control valve	0,3	25	50,2	75,1	99,9	75,1	50,2	25	0,3
Control valve position on field display (if applicable)	0,3	25	50,2	75,1	99,9	75,1	50,2	25	0,3
Control valve position on ICSS (if applicable)	0	25	50	75	100	75	50	25	0

	Full Opening Time	sec.	Full Closing Time	sec.
Stroke Limitation Test	Opening	%	Closing	%
Output limitation	Opening	%	Closing	%

Communication fault alarm (ONLY for valve with redundant communication)

Communication lost position	☐	**OPENED**	●	**CLOSED**	☐ **STAY PUT**	**%**
Power lost position	☐	**OPENED**	●	**CLOSED**	☐ **STAY PUT**	**%**
Actuator fault alarm	☐	**Hard wired**	●	**Soft signal**		

ICSS/HMI CHECKS

Checking for fault mode on ICSS (short and open circuit)	OK
Verify HMI graphic and faceplate indicate all animations (i.e. Alarm, Inhibit/ Block, Fault, etc.) correctly	OK
Verify all alarms and events (i.e. Alarm, Inhibit/ Block, Fault, etc.) shows correctly on alarm list	OK

TESTING & MEASUREMENT INSTRUMENT USED

Type	Serial N.	Calibration Certificate	Validity

Comments:

Page 1/1	Performed by	● WITNESS ☐ REVIEW	● WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	
Name	Laurentiu Grozavu	Giandonato Delmissier	David Musgrove
Date	2025-03-24	2025-03-25	2025-03-26
Signature	Digitaly signed by Laurentiu Grozavu 2025-03-24T10:16:18.788Z	Digitaly signed by Giandonato Delmissier 2025-03-25T07:59:51.378Z	Digitaly signed by David Musgrove 2025-03-26T21:09:09.848Z

AST S.p.A.
CONTROL VALVES DIVISION

Via R. Merendi, 40
20010 Cornaredo MI
ITALY

P +39 02 934848.1
W www.astspa.it
F +39 02 9362248

Customer: ROSETTI MARINO

Plant / Site: HOLLANDSE KUST NOORD WIND PARK Prj.

Quotation Ref./Job Ref.: OV2301646/CV2400221

DSH REV. 2 - 04/06/2024 - 0

Final Installation: NL

1	Item	**40**	49	Q.ty	2
2	Valve tag / S.No	**64-PV-031A/B / 2400597 ÷ 2400598**	50	Valve Service	NITROGEN FROM NITROGEN SYSTEM (A-64000) TO HEADER

PIPING AND DESIGN CONDITIONS

PIPING

3	Piping Size / Ext.Diam	1"	
4	Schedule / Thickness	80	
5	Pipe Insulation	No	
6	Installation Location	Outdoor	

AMBIENCE AND DESIGN CONDITIONS

51	Inlet / Outlet Design Pressure	10	bar g
52	Inlet / Outlet Design Temperature	100	°C
53	Tmin / Tmax	-8.4 / +25	°C
54	Certification / Classific.Area	PED+ATEX / Zone 2	

VALVE CONSTRUCTION

VALVE CHARACTERISTICS

7	Valve Model	CV-8407	
8	Valve Type	Globe	
9	Valve Layout	Straight	
10	Bonnet type	Bolted	
11	Guiding Type	Top Guided	
12	No.Ports	1	
13	Flow direction	to Open	
14	Trim Type	Contoured Plug	
15	Port Size	3/8"	Inch
16	CV / Characteristics	1.9 / Equal%	
17	Body Size	1"	
18	Rating Standard	ASME B16.34	
19	Pressure Class	150#	
20	End Connection Standard	ASME B16.5	
21	End Connection Type	RF	
22	End Connection Finishing	-	
23	Stroke	13	mm
24	Shut-off Direction	Direct	
25	Leakage Class	V - IEC 60534-4	
26	Shut-off pressure	10	bar g

MATERIALS

55	Body Material	A350 LF2
56	Bonnet Material	A350 LF2
57	Boltings	A193 B8M Cl. 2 / A194 8M
58	Bellows Material	-
59	Plug / Vane Material	A479 316L + CoCr-A
60	Seat Material	A479 316L + CoCr-A
61	Cage Material	-
62	Guide Material	-
63	Stem Material	A 479 316L
64	VE-CO LT Material	-
65	Seating Type	Metallic
66	Balancing Material	-

PACKING

67	Packing Material	PTFE
68	Live Loading	-
69	Stem Flushing	-

DEVICES

70	Inlet Device	-
71	Inlet Device Size	-
72	Outlet Device	-
73	Outlet Device Size	-
74	Body Heating	-

ACTUATOR AND ACCESSORIES

ACTUATOR

27	Fail Position	Closed	
28	Actuation Type / Model	Pneumatic Diaphragm	
29	Actuator Action	Reverse	
30	Actuator Size	SD11R	
31	Spring Range	15-30 psi	
32	Supply	50- psi	
33	Design Supply	11 barg	
34	Handwheel	-	
35	Mechanical Stop	-	
36	Throttling Time	<10	s
37	Quick Stroking Time	-	s
38	Yoke Material	CS	
39	Pneumatic Tubing Material	AISI 316	
40	Pneumatic Fittings	AISI 316 Double Ferrule	
41	Pneumatic Connection Size	1/4" NPT-F	

POSITIONER

42	Positioner Model	TISSIN TS900
43	Type	Smart Digital
44	Input Signal / Protocol	4-20 mA HART
45	Fail Safety	Fail safe
46	Output Signal	4-20 mA
47	Prot. Class / Encl. Material / El. Classif.	IP66 / AISI 316 / Eexd \ C T4-T6
48	El.Conn. / Pn.Conn.	M20x1.5 \ 1/4" NPT-F

FILTER REGULATOR

75	Fr. Model	FR04411S00SSNB2
76	Pn.Conn. / Body Material	1/4" NPT-F / S.Steel

BOOSTER

77	Booster Model	-
78	Pn.Conn. / Body Material	-

SOLENOID VALVE

79	SOV Model	-
80	Body Material	-
81	Prot. Class / El. Classif.	-
82	El.Conn. / Pn.Conn.	-
83	Supply	-
84	Power Consumption	-

PNEUMATIC VALVE

85	Pneumatic Discharge Model	-
86	Pn.Conn. / Body Material	-

LOCK UP VALVE

87	Lock Up Model	-
88	Pn.Conn. / Body Material	-

LIMIT SWITCH

89	Limit Switch Model	1 x GDSN0LIS2MS290 EISENBAU
90	Type	SPDT
91	Contact Type	-
92	Encl.Material	316SS
93	El.Connection	M20x1,5
94	Prot. Class / El. Classif.	IP66 / MIN. Ex-d IIC (or IIB+H2) T1

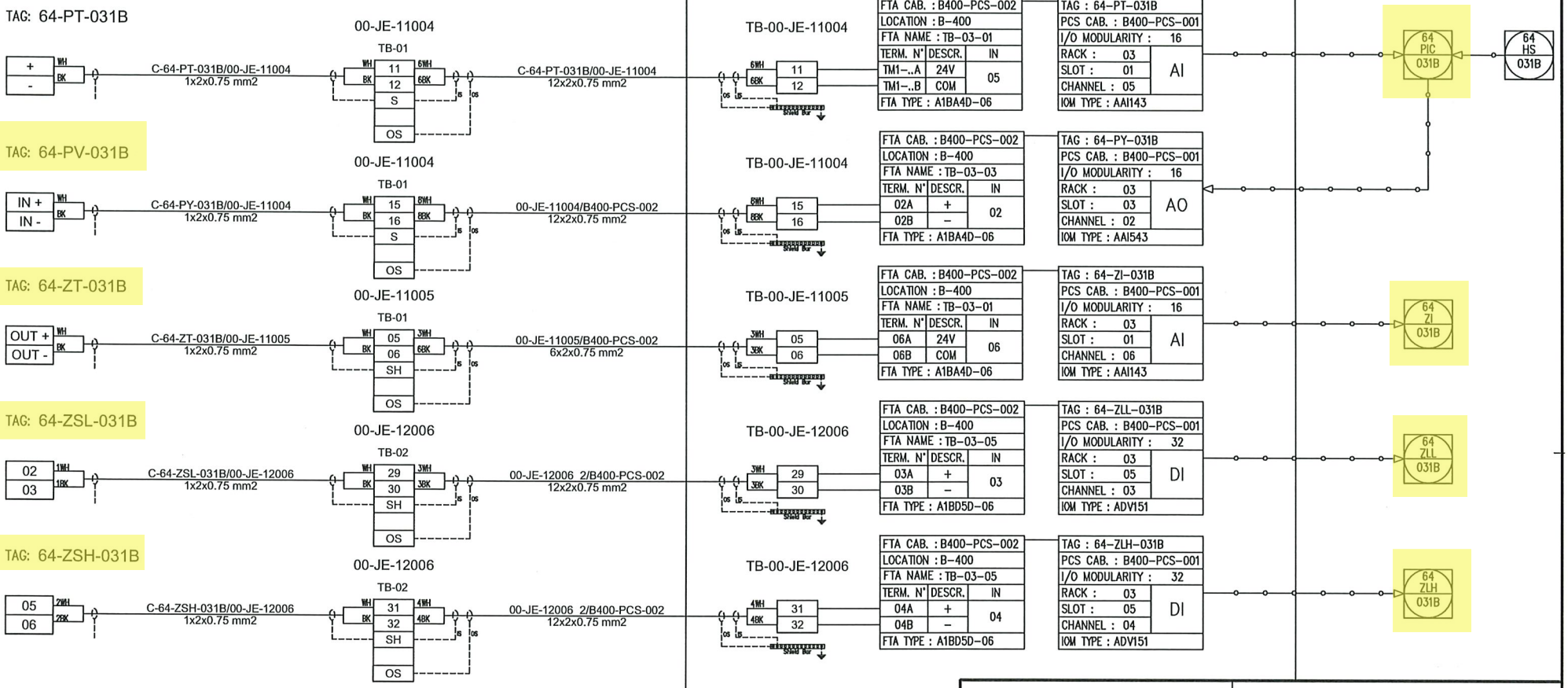
NOTES

N.1	n°1 PSV installed downstream the air filter regulator, size 1/4", st.ast., set 6 barg (CE)
N.2	
N.3	
N.4	
N.5	
N.6	
N.7	

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

FIELD | ITER – B400 | CENTRAL CONTROL ROOM

PROCESS CONTROL SYSTEM | OPERATOR CONSOLE



NO MARK UP
08/03/25

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
64-PIC-031B
NITROGEN PRESSURE CONTROL TO DISTRIBUTION HEADER

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 038	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: 64-10 & process: COMM

Piping	64-10 Nitrogen Distribution Network						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
64-10	Service Test Nitrogen Distribution Network	ONSHORE	C10004909	4245	100	2025-03-28	RFO 1

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	64-10	: Service Test Nitrogen Distribution Network			Dwg	-
	S/Sys	64-10	: Nitrogen Distribution Network			Module	
TASK	code	C10004909		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	COMM	Activity PVP	Discipline	Piping	Form	4245 Service Test

CONDITIONS

Operating pressure: 7,5 bar g

Test Pressure 7,5 bar g

Test Fluid				
	Air	X	Nitrogen	
	Water		Other	

TIGHTNESS CRITERION

Pressure variation tolerance: 1

Test Duration: 30 MIN

Pressure Recording Means: TEXS

Adhesive Tape:	No
Soap Solution:	Yes
He Tracing:	No

Rotating equipment isolated

ATTACHMENTS

Procedure:	No
Sketches & Drawings:	No
Pressure Records:	No

Comments: TEST WAS PERFORMED TO VALIDATE THE INTEGRITY OF THE SYSTEM

	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ROSETTI MARINO SPA		CPY NOT PRESENT
Name	Ignacio Vago	Anthony Iveson	Witness waived
Date	2025-03-28	2025-03-28	2025-03-28
Signature	PROVERLIS Digitaly signed by Ignacio Vago 2025-03-28T16:57:29.427Z	PROVERLIS Digitaly signed by Anthony Iveson 2025-03-28T17:17:48.541Z	PROVERLIS Digitaly signed by Witness waived 2025-03-28T17:23:03.172Z

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