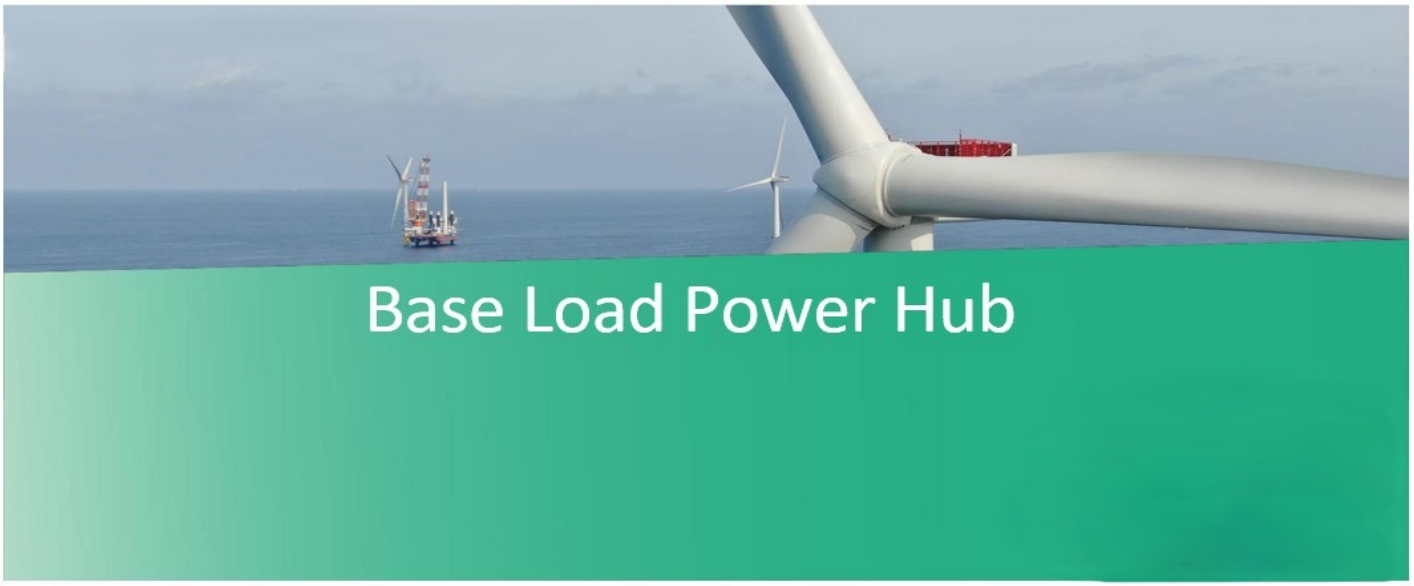
CROSSWIND

ROSETTI MARINO

PROVERLIS

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



COMMISSIONING DOSSIER (ONSHORE)

SYSTEM	83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-55 Power Sockets

CROSSWIND

123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

COMMISSIONING DOSSIER INDEX

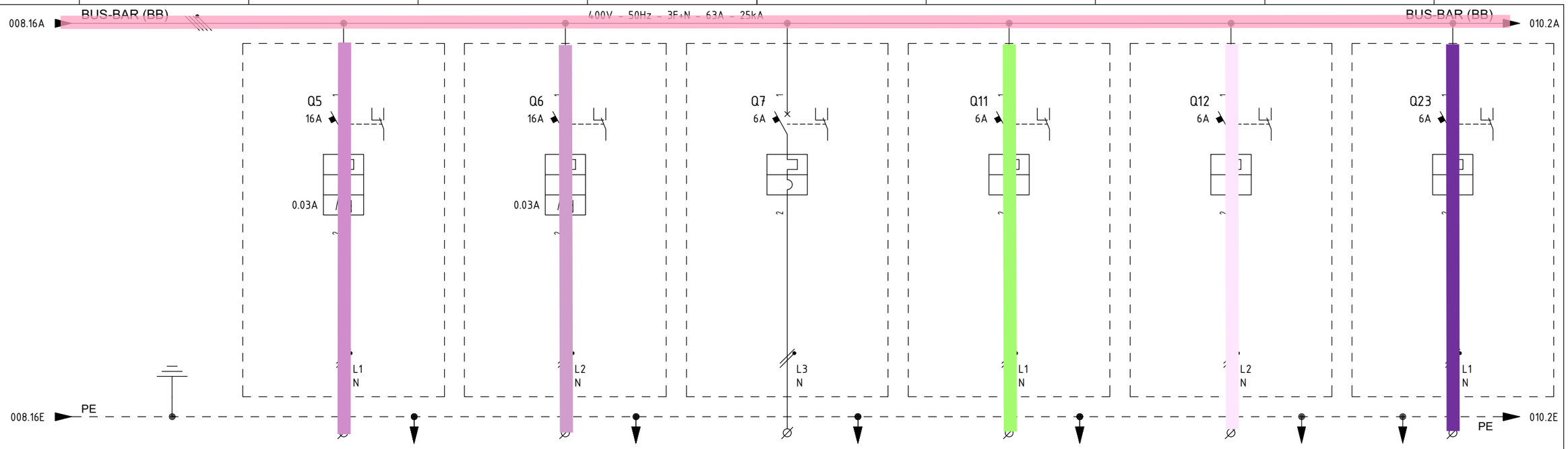
ROSETTI MARINO

Sub System N°:	83-55	**Tick as appropriate**	ONSHORE	OK
Description:	Power Sockets		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*	NA
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*	OK
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	2025-06-06	2025-06-10
Signature	PROVERLIS Digitaly signed by Anthony Iveson 2025-06-06T09:56:33.400Z	PROVERLIS Digitaly signed by Martin Taylor 2025-06-10T09:37:27.180Z

Section 1 SUB-SYSTEM DEFINITION



ITEM			1	ESO-200N1-05-L1-01	ESO-200N1-06-L2-01	-	ESH-200N1-11-L1-01	ESH-200N1-12-L2-01	B400-SIS-001
UTILITY			2	SMALL POWER SOCKET (UPPER DECK)	SMALL POWER SOCKET (LOWER DECK)	SPARE	SPACE HEATERS JB - WIND FARM SUBSEA CABLE	SPACE HEATERS JB - SOLAR SUBSEA CABLE	SIS-CONTROLLER AND I/O CABINET - AUXILIARY
CUBICLE			3	+03	+03	+03	+03	+03	+03
RATED POWER | RATED CURRENT			4/5	3 KW | 14.49 A	3 KW | 14.49 A	0.726 KW | 3.95 A	0.25 KW | 1.14 A	0.25 KW | 1.14 A	0.5 KW | 2.72 A
TYPICAL FUNCTIONAL			6	-	-	-	-	-	-
CIRCUIT BREAKER (ABB)	TYPE		7	S302P-C16 + DDA202 AC-25/0.03	S302P-C16 + DDA202 AC-25/0.03	S302P-C6	S302P-C6	S302P-C6	S302P-C6
	VERSION		8	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE
	TRIP UNITS		9	In=16A - Curve C / Id=0.03A Class AC	In=16A - Curve C / Id=0.03A Class AC	In=6A - Curve C	In=6A - Curve C	In=6A - Curve C	In=6A - Curve C
	Icu	KA	10	25kA	25kA	25kA	25kA	25kA	25kA
OVERLOAD	L	Range A	11	-	-	-	-	-	-
		Range t	12	-	-	-	-	-	-
SEL. SHORT-CIRCUIT	S	Range A	13	-	-	-	-	-	-
		Range t	14	-	-	-	-	-	-
INST. SHORT-CIRCUIT	I	Range A	15	-	-	-	-	-	-
		Range t	16	-	-	-	-	-	-
EARTH FAULT PROTECTION	G	Range A	17	-	-	-	-	-	-
		Range t	18	-	-	-	-	-	-
CONTACTOR (ABB)			19	-	-	-	-	-	-
THERMAL OVERLOAD RELAY (ABB)			20	-	-	-	-	-	-
SURGE ARRESTERS (DHENN)			21	-	-	-	-	-	-
TOROIDAL CURRENT TRANSFORMER (FRER)			22	-	-	-	-	-	-
FUSE HOLDER (ABB)			23	-	-	-	-	-	-
TWILIGHT SWITCH (ABB)			24	-	-	-	-	-	-
VOLTMETER (FRER)			25	-	-	-	-	-	-
CURRENT TRANSFORMER FOR MEASURE (FRER)	TYPE		26	-	-	-	-	-	-
	PERFORMANCE/CLASS		27	-	-	-	-	-	-
VOLTAGE TRANSFORMER FOR MEASURE (FRER)	TYPE		28	-	-	-	-	-	-
	PERFORMANCE/CLASS		29	-	-	-	-	-	-
POWER TERM. BLOCK (CABUR)		Type/mm²	30	SCREW / 10	SCREW / 10	SCREW / 4	SCREW / 4	SCREW / 4	SCREW / 4
POWER CONDUCTOR		mm²	31	3G10	3G10	3G2.5	3G2.5	3G2.5	3G2.5

SUBSYSTEM 83-55

SUBSYSTEM 83-55

SUBSYSTEM 81-00

SUBSYSTEM 83-10

SUBSYSTEM 79-00

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	05/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for construction (AFC)
2	24/04/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
1	15/03/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

=

+

DWG n° : 231298/SD/13

Item n° : PF1002888/101

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "DP-200N1"

SINGLE LINE DIAGRAM

Single Line Drawing

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00013

SHEET 009

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00013 Rev. 03

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:	2		Issued on:	2025-06-03	

System:	83	/	Main Power Distribution Low Voltage 440 V

SubSystem:	83-55	/	Power Sockets

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 '0

REMARKS:

	CONTRACTOR Commissioning Manager	**COMPANY** Commissioning Lead
Name	Anthony Iveson	Martin Taylor
Date	2025-06-03	2025-06-05
Signature	PROVERLIS Digitaly signed by Anthony Iveson 2025-06-03T14:16:37.843Z	PROVERLIS Digitaly signed by Martin Taylor 2025-06-05T15:35:27.978Z

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-55 & process: COMM

Electrical	83-55 Power Sockets						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
DP-200N1-Q5	POWER SOCKET - DP-200N1-Q5	ONSHORE	C10002852	FP18	100	2025-02-04	RFO 2
DP-200N1-Q6	POWER SOCKET - DP-200N1-Q6	ONSHORE	C10002853	FP18	100	2025-02-04	RFO 2
		OFFSHORE	C10004960	FP18	0	-	-

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-55	Power Sockets

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001969	A	ESO-200N1-05-L1-02 C10001853	Not enought threads are thightened between the lock nut and the cable gland body.	.		Lmussi 2024-12-17	2025-01-03	Ecarotenuto 2025-01-03	2025-01-03
C30001970	A	ESO-200N1-05-L1-02 C10001853	Earthing stud is too short and nut is not completely thightened.	.		Lmussi 2024-12-17	2025-01-02	Ecarotenuto 2025-01-02	2025-01-02
C30002260	A	P-ESO-200N1-05-L1-02 C10000604	Not enought threads are thightened between the lock nut and the cable gland body.	.		Lmussi 2024-12-31	2025-01-23	AAndreani 2025-01-23	2025-01-23
C30001119	B	P-ESO-200N1-06-L2-01 C10000606	Missing SS cable tags	.		Pschintu 2024-12-02	2025-02-04	Pschintu 2025-02-04	2025-02-04
C30001120	B	P-ESO-200N1-06-L2-01 C10000606	Missing core identification tags inside socket JB	.		Pschintu 2024-12-02	2025-02-26	Gtangianu 2025-02-26	2025-02-26
C30001182	B	P-ESO-200N1-05-L1-01 C10000602	Missing SS cable tag	.		Pschintu 2024-12-03	2025-02-04	Pschintu 2025-02-04	2025-02-04
C30001183	B	P-ESO-200N1-05-L1-01 C10000602	Missing core identification tag both side	.		Pschintu 2024-12-03	2025-02-25	APolo 2025-02-25	2025-02-25
C30001968	B	ESO-200N1-05-L1-02 C10001853	Plugs are installed without serrated washer	.		Lmussi 2024-12-17	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30002252	B	ESO-200N1-05-L1-01 C10001852	Drainage valve is missing as per 123A90-DDL-EL-DS-20067 (c/w serrated washer).	.		Lmussi 2024-12-31	2025-01-14	Ecarotenuto 2025-01-14	2025-01-14

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V

SUBSYSTEM 83-55 Power Sockets

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002253	B	ESO-200N1-05-L1-01 C10001852	Missing indication on terminal block.	.		Lmussi 2024-12-31	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30002254	B	P-ESO-200N1-05-L1-02 C10000604	On ESO-200N1-05-L1-01 side, SS cable tag is missing.	.		Lmussi 2024-12-31	2025-02-25	AAndreani 2025-02-25	2025-02-25
C30002255	B	P-ESO-200N1-05-L1-02 C10000604	On both JBs sides (ESO-200N1-05-L1-01 & ESO-200N1-05-L1-02) core identification tags are missing for all wires.	.		Lmussi 2024-12-31	2025-02-25	AAndreani 2025-02-25	2025-02-25
C30002258	B	P-ESO-200N1-05-L1-02 C10000604	MCTs are missing.	.		Lmussi 2024-12-31	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30003444	B	DP-200N1-Q6 C10002853	Missing the socket ESO-200N1-06-L2-03 and the relative cable P-ESO-200N1-06-L2-03. See the attached.	Install the cable and the Socket.	The socket is installed and the cable was tested. Ref. C10004960 (task offshore)	MGirotti 2025-01-31	MGirotti 2025-06-03	MGirotti 2025-06-03	2025-06-03

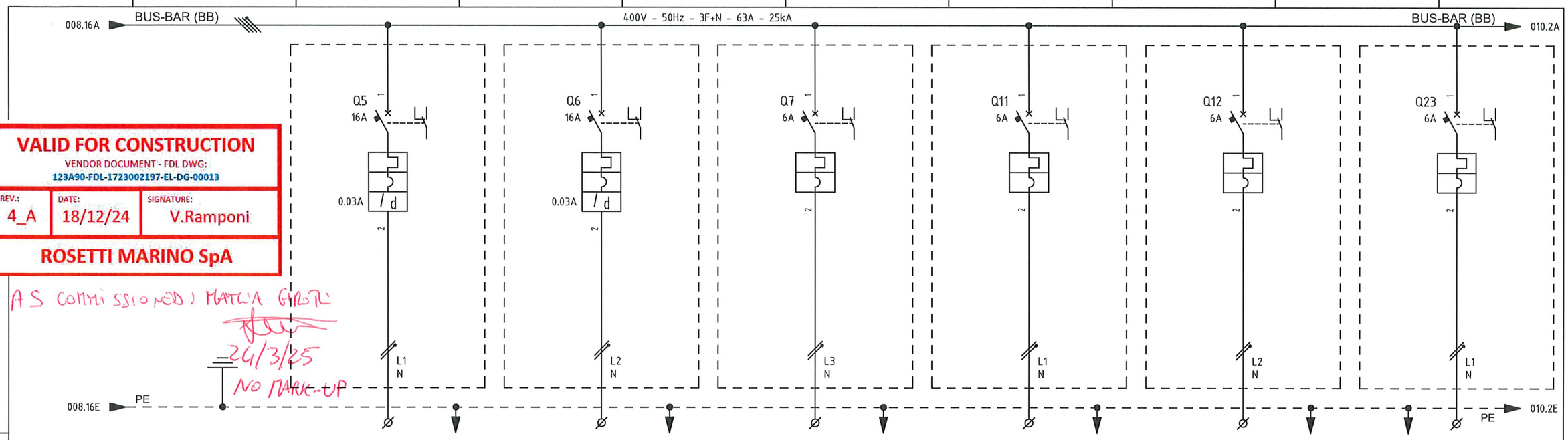
Section 2.2 Exception Punch Lists (per discipline)

Project CROSSWIND

PUNCH LIST REPORT

NO DATA AVAILABLE

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



VALID FOR CONSTRUCTION

VENDOR DOCUMENT - FDL DWG:
123A90-FDL-1723002197-EL-DG-00013

REV.:	DATE:	SIGNATURE:
4_A	18/12/24	V.Ramponi

ROSETTI MARINO SpA

AS COMMISSIONED MATCH GIROTE
24/3/25
NO TAKE-UP

ITEM				1	ESO-200N1-05-L1-01	ESO-200N1-06-L2-01	-	ESH-200N1-11-L1-01	ESH-200N1-12-L2-01	B400-SIS-001
UTILITY				2	SMALL POWER SOCKET (UPPER DECK)	SMALL POWER SOCKET (LOWER DECK)	SPARE	~~SPACE HEATERS JB - WIND FARM SUBSEA CABLE~~ SPARE	~~SPACE HEATERS JB - SOLAR SUBSEA CABLE~~ SPARE	SIS-CONTROLLER AND I/O CABINET - AUXILIARY
CUBICLE				3	+03	+03	+03	+03	+03	+03
RATED POWER | RATED CURRENT				4/5	3 KW | 14.49 A	3 KW | 14.49 A	0.726 KW | 3.95 A	0.25 KW | 1.14 A	0.25 KW | 1.14 A	0.5 KW | 2.72 A
TYPICAL FUNCTIONAL				6	-	-	-	-	-	-
CIRCUIT BREAKER (ABB)	TYPE			7	S302P-C16 + DDA202 AC-25/0.03	S302P-C16 + DDA202 AC-25/0.03	S302P-C6	S302P-C6	S302P-C6	S302P-C6
	VERSION			8	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE
	TRIP UNITS			9	In=16A - Curve C / Id=0.03A Class AC	In=16A - Curve C / Id=0.03A Class AC	In=6A - Curve C	In=6A - Curve C	In=6A - Curve C	In=6A - Curve C
	Icu		KA	10	25kA	25kA	25kA	25kA	25kA	25kA
OVERLOAD	L	Range	A	11	-	-	-	-	-	-
		Range	t	12	-	-	-	-	-	-
SEL. SHORT-CIRCUIT	S	Range	A	13	-	-	-	-	-	-
		Range	t	14	-	-	-	-	-	-
INST. SHORT-CIRCUIT	I	Range	A	15	-	-	-	-	-	-
		Range	t	16	-	-	-	-	-	-
EARTH FAULT PROTECTION	G	Range	A	17	-	-	-	-	-	-
		Range	t	18	-	-	-	-	-	-
CONTACTOR (ABB)				19	-	-	-	-	-	-
THERMAL OVERLOAD RELAY (ABB)				20	-	-	-	-	-	-
SURGE ARRESTERS (DHENN)				21	-	-	-	-	-	-
TOROIDAL CURRENT TRANSFORMER (FRER)				22	-	-	-	-	-	-
FUSE HOLDER (ABB)				23	-	-	-	-	-	-
TWILIGHT SWITCH (ABB)				24	-	-	-	-	-	-
VOLTMETER (FRER)				25	-	-	-	-	-	-
CURRENT TRANSFORMER FOR MEASURE (FRER)	TYPE			26	-	-	-	-	-	-
	PERFORMANCE/CLASS			27	-	-	-	-	-	-
VOLTAGE TRANSFORMER FOR MEASURE (FRER)	TYPE			28	-	-	-	-	-	-
	PERFORMANCE/CLASS			29	-	-	-	-	-	-
POWER TERM. BLOCK (CABUR)			Type/mm²	30	SCREW / 10	SCREW / 10	SCREW / 4	SCREW / 4	SCREW / 4	SCREW / 4
POWER CONDUCTOR			mm²	31	3G10	3G10	3G2.5	3G2.5	3G2.5	3G2.5

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
4	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
3	05/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for construction (AFC)
2	24/04/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
1	15/03/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

IMESA ELECTRICAL ENGINEERING

DWG n° : 231298/SD/13

Item n° : PF1002888/101

CROSSWIND

ROSETTI MARINO

TITLE : "DP-200N1"
SINGLE LINE DIAGRAM
Single Line Drawing

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00013

SHEET 009

REV. 04

File Name : 1723002197-EL-DG-00013 Rev. 04

F.to UNI A3: 420mmx297mm

Section 3 CONSOLIDATED PUNCH LISTS

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-55	Power Sockets

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001969	A	ESO-200N1-05-L1-02 C10001853	Not enought threads are thightened between the lock nut and the cable gland body.	.		Lmussi 2024-12-17	2025-01-03	Ecarotenuto 2025-01-03	2025-01-03
C30001970	A	ESO-200N1-05-L1-02 C10001853	Earthing stud is too short and nut is not completely thightened.	.		Lmussi 2024-12-17	2025-01-02	Ecarotenuto 2025-01-02	2025-01-02
C30002260	A	P-ESO-200N1-05-L1-02 C10000604	Not enought threads are thightened between the lock nut and the cable gland body.	.		Lmussi 2024-12-31	2025-01-23	AAndreani 2025-01-23	2025-01-23
C30001119	B	P-ESO-200N1-06-L2-01 C10000606	Missing SS cable tags	.		Pschintu 2024-12-02	2025-02-04	Pschintu 2025-02-04	2025-02-04
C30001120	B	P-ESO-200N1-06-L2-01 C10000606	Missing core identification tags inside socket JB	.		Pschintu 2024-12-02	2025-02-26	Gtangianu 2025-02-26	2025-02-26
C30001182	B	P-ESO-200N1-05-L1-01 C10000602	Missing SS cable tag	.		Pschintu 2024-12-03	2025-02-04	Pschintu 2025-02-04	2025-02-04
C30001183	B	P-ESO-200N1-05-L1-01 C10000602	Missing core identification tag both side	.		Pschintu 2024-12-03	2025-02-25	APolo 2025-02-25	2025-02-25
C30001968	B	ESO-200N1-05-L1-02 C10001853	Plugs are installed without serrated washer	.		Lmussi 2024-12-17	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30002252	B	ESO-200N1-05-L1-01 C10001852	Drainage valve is missing as per 123A90-DDL-EL-DS-20067 (c/w serrated washer).	.		Lmussi 2024-12-31	2025-01-14	Ecarotenuto 2025-01-14	2025-01-14

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-55	Power Sockets

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002253	B	ESO-200N1-05-L1-01 C10001852	Missing indication on terminal block.	.		Lmussi 2024-12-31	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30002254	B	P-ESO-200N1-05-L1-02 C10000604	On ESO-200N1-05-L1-01 side, SS cable tag is missing.	.		Lmussi 2024-12-31	2025-02-25	AAndreani 2025-02-25	2025-02-25
C30002255	B	P-ESO-200N1-05-L1-02 C10000604	On both JBs sides (ESO-200N1-05-L1-01 & ESO-200N1-05-L1-02) core identification tags are missing for all wires.	.		Lmussi 2024-12-31	2025-02-25	AAndreani 2025-02-25	2025-02-25
C30002258	B	P-ESO-200N1-05-L1-02 C10000604	MCTs are missing.	.		Lmussi 2024-12-31	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30003444	B	DP-200N1-Q6 C10002853	Missing the socket ESO-200N1-06-L2-03 and the relative cable P-ESO-200N1-06-L2-03. See the attached.	Install the cable and the Socket.	The socket is installed and the cable was tested. Ref. C10004960 (task offshore)	MGirotti 2025-01-31	MGirotti 2025-06-03	MGirotti 2025-06-03	2025-06-03

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001970

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001853	1.4 Discipline	Electrical
1.2 Item	ESO-200N1-05-L1-02	Small Power Socket (Upper Deck)	
1.3 Subsystem	83-55	Power Sockets	

2 - OBSERVATION

Earthing stud is too short and nut is not completely thightened.

Name: Luca Mussi
Date: 2024-12-17
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto
Date: 2025-01-02
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:



ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002252

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001852	1.4 Discipline	Electrical
1.2 Item	ESO-200N1-05-L1-01	Small Power Socket (Upper Deck)	
1.3 Subsystem	83-55	Power Sockets	

2 - OBSERVATION

Drainage valve is missing as per 123A90-DDL-EL-DS-20067 (c/w serrated washer).

Name: Luca Mussi

Date: 2024-12-31

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	2024-12-31
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

TDS is superseded by TBE and Vendor GA, drain valve not required

Name: Eleonora Carotenuto

Date: 2025-01-14

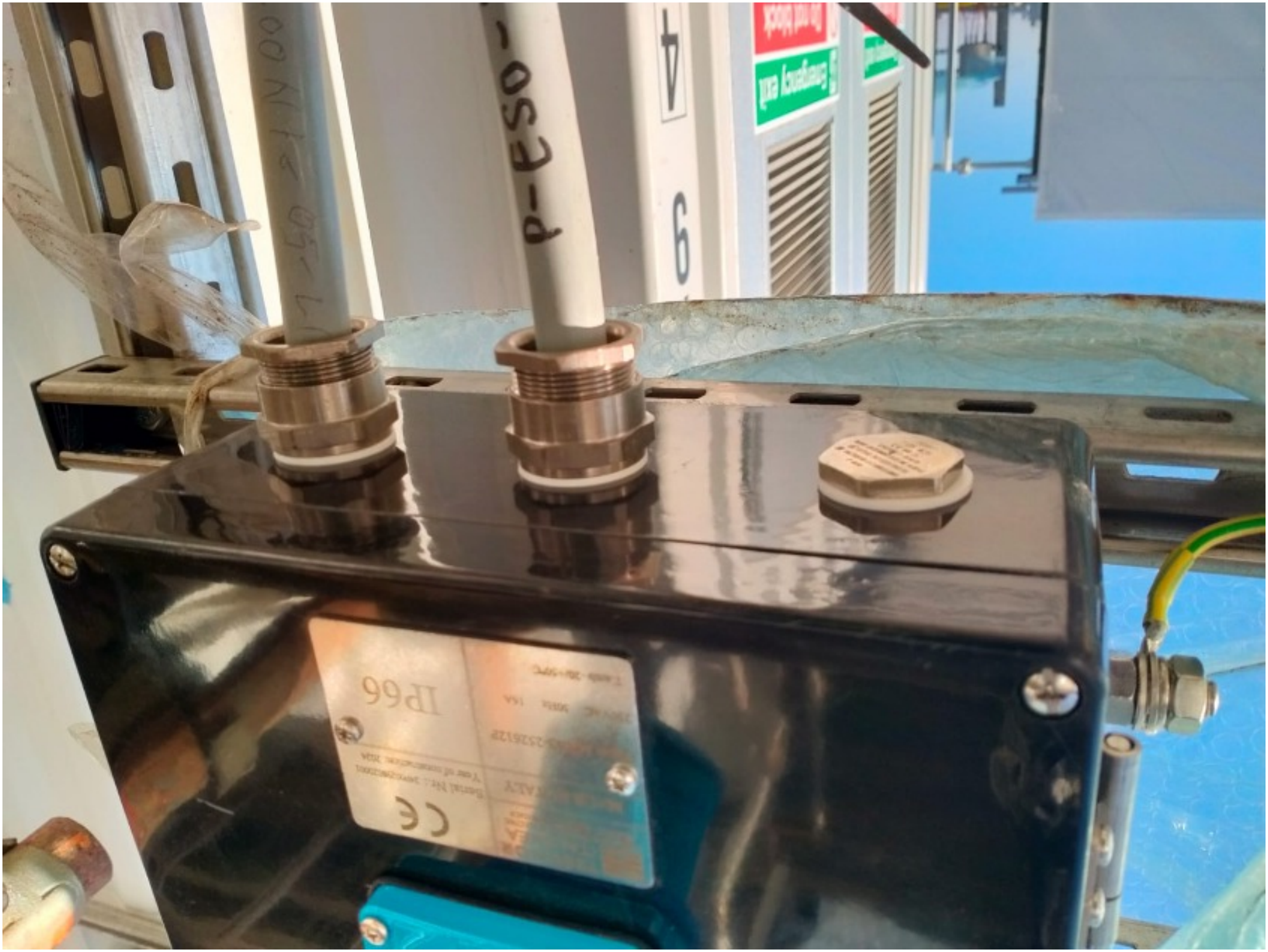
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


IP66



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002253

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001852	1.4 Discipline	Electrical
1.2 Item	ESO-200N1-05-L1-01	Small Power Socket (Upper Deck)	
1.3 Subsystem	83-55	Power Sockets	

2 - OBSERVATION

Missing indication on terminal block.

Name: Luca Mussi

Date: 2024-12-31

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	2024-12-31
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-23

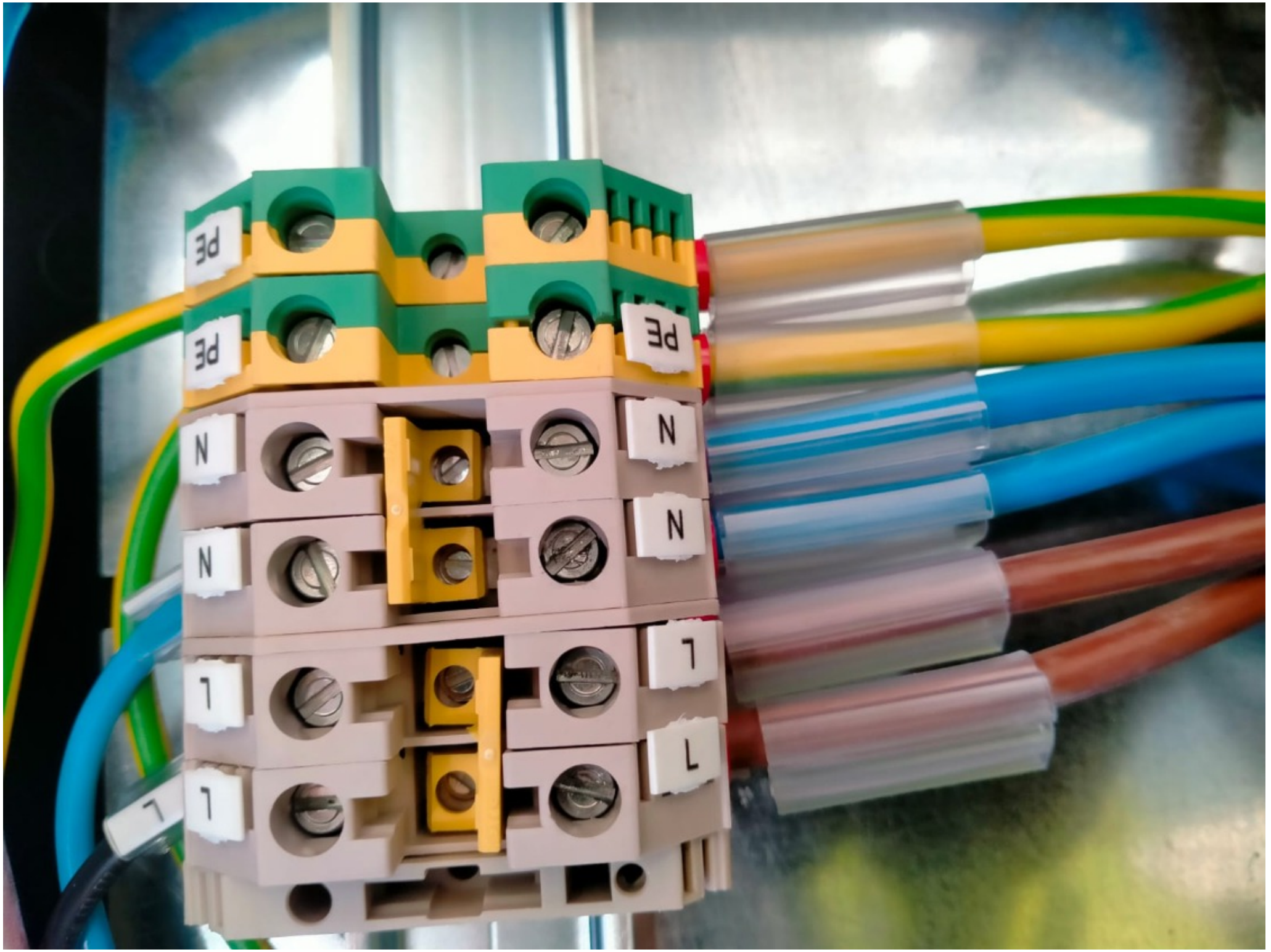
Signature:

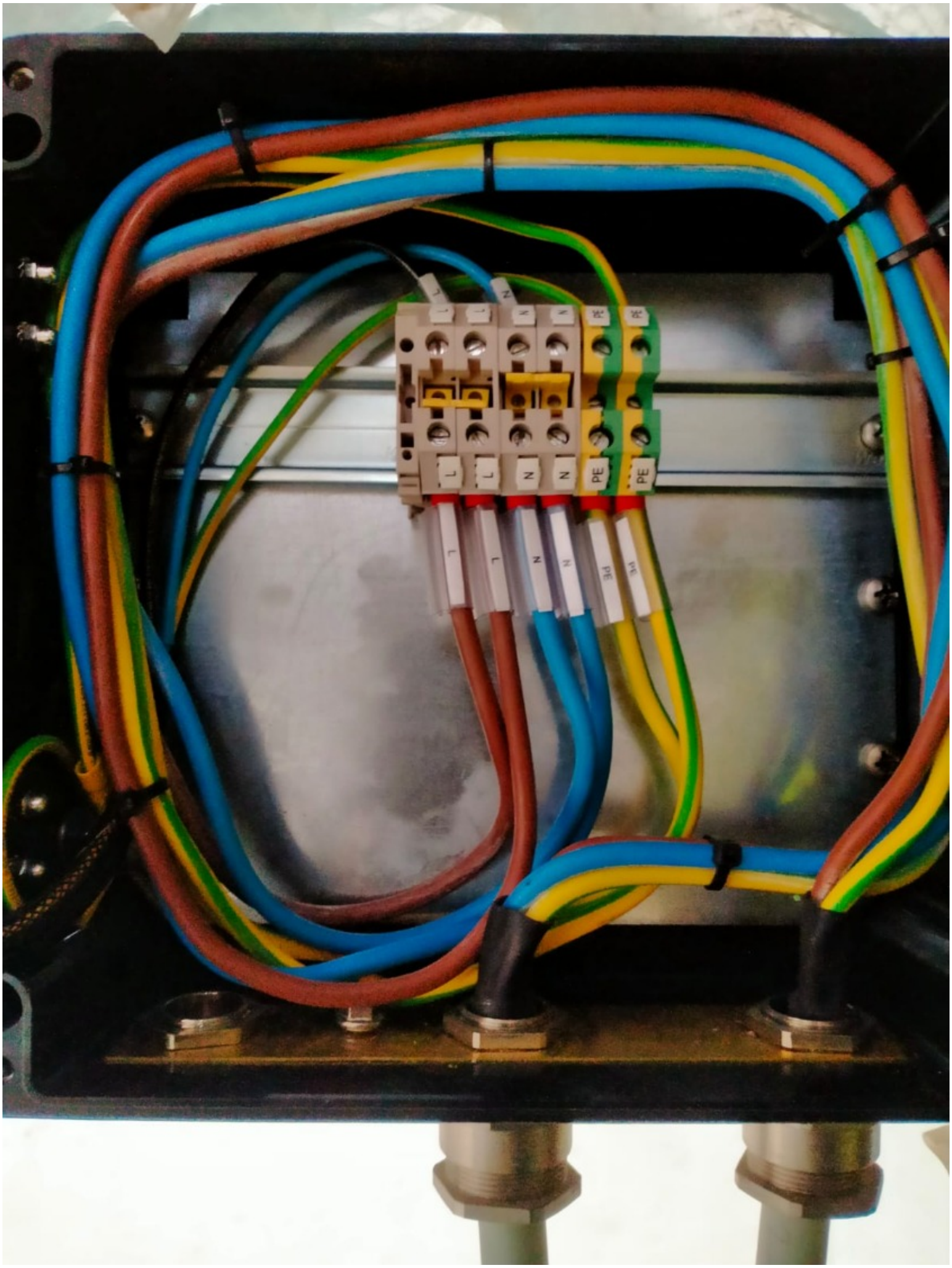
6- CLEARANCE APPROVAL

Name:

Date:

Signature:


PE
PE
PE
N
N
N
N
L
L
L
L


L
L
N
N
PE
PE

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002254

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000604	1.4 Discipline	Electrical
1.2 Item	P-ESO-200N1-05-L1-02		Small Power Socket JB(Upper Deck) / Small Power Socket (Upper Deck)
1.3 Subsystem	83-55		Power Sockets

2 - OBSERVATION

On ESO-200N1-05-L1-01 side, SS cable tag is missing.

Name: Luca Mussi

Date: 2024-12-31

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	2024-12-31
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-25

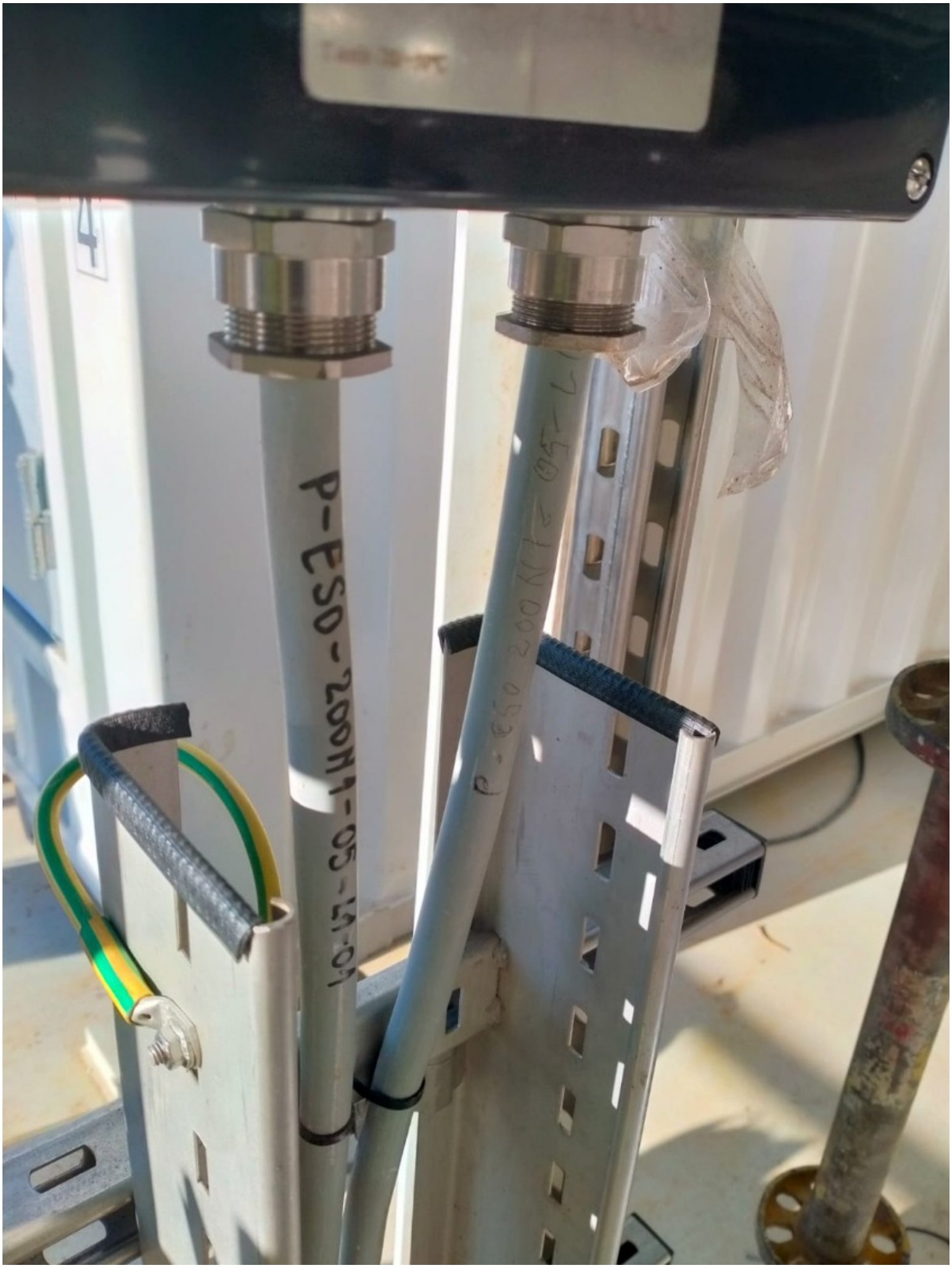
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


P-ESO-200M-05-14-01

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002255

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000604	1.4 Discipline	Electrical
1.2 Item	P-ESO-200N1-05-L1-02	Small Power Socket JB(Upper Deck) / Small Power Socket (Upper Deck)	
1.3 Subsystem	83-55	Power Sockets	

2 - OBSERVATION

On both JBs sides (ESO-200N1-05-L1-01 & ESO-200N1-05-L1-02) core identification tags are missing for all wires.

Name: Luca Mussi

Date: 2024-12-31

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	2024-12-31
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-25

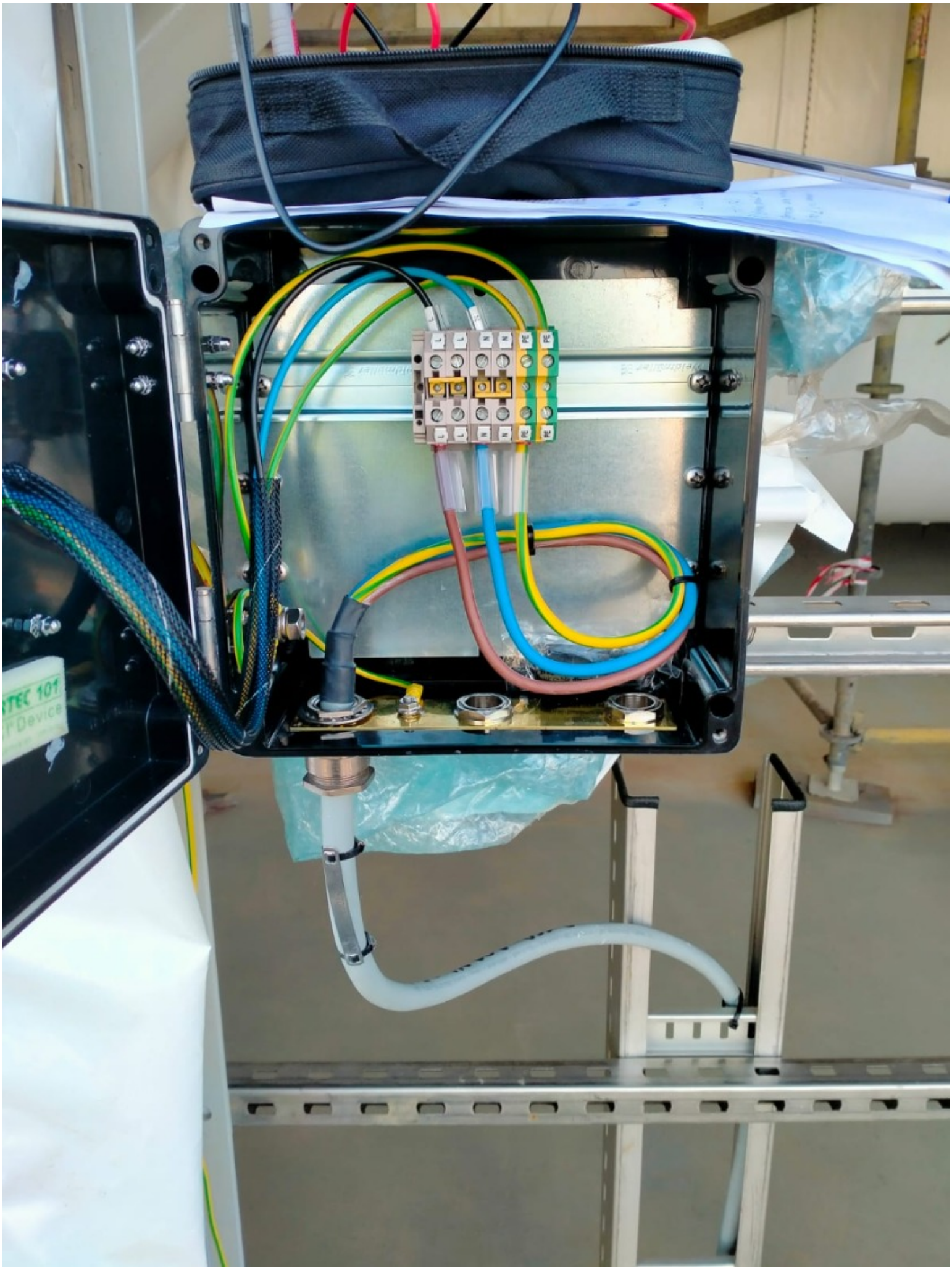
Signature:

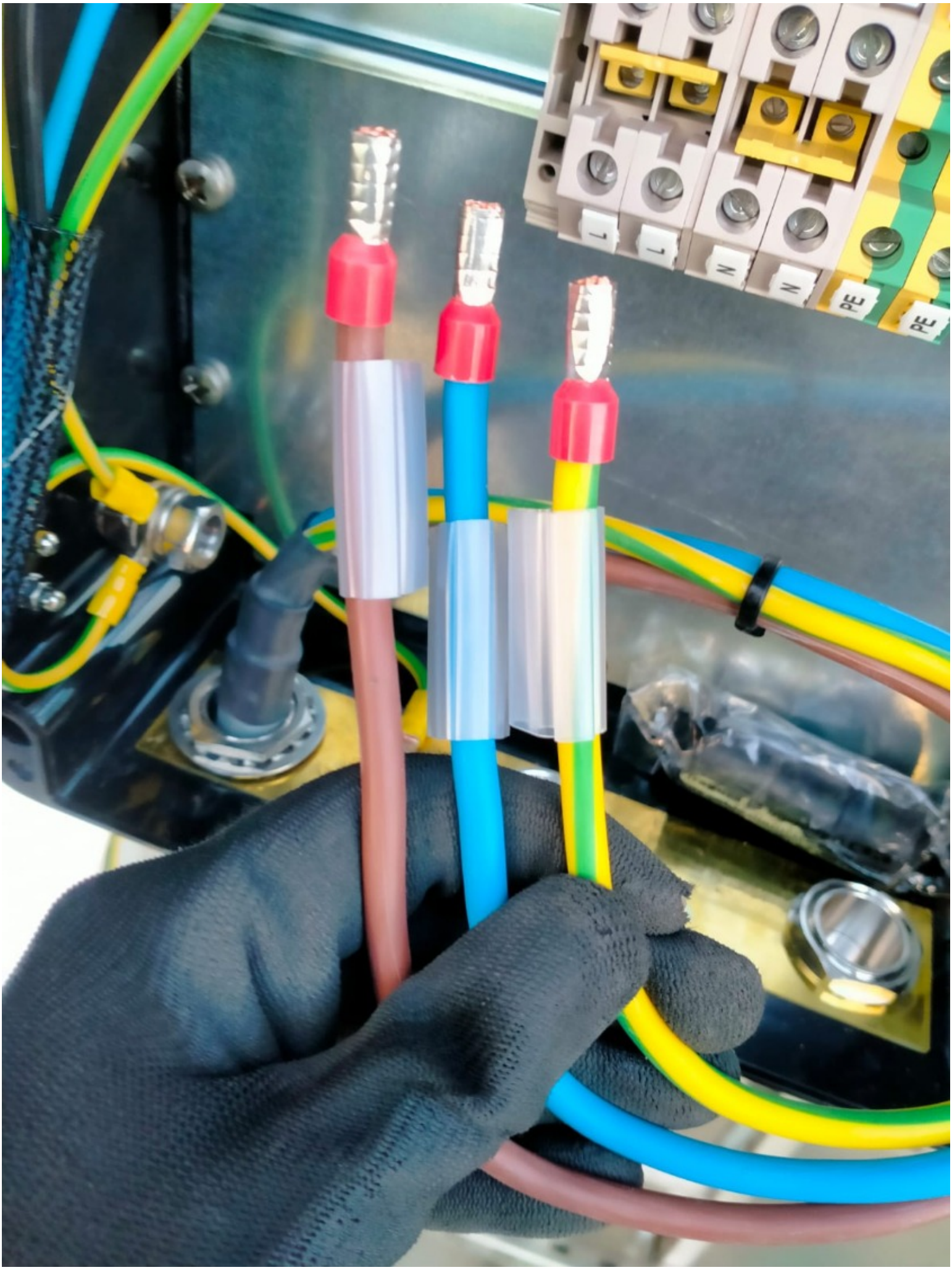
6- CLEARANCE APPROVAL

Name:

Date:

Signature:




L
L
N
N
PE
PE

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002258

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000604	1.4 Discipline	Electrical
1.2 Item	P-ESO-200N1-05-L1-02	Small Power Socket JB(Upper Deck) / Small Power Socket (Upper Deck)	
1.3 Subsystem	83-55	Power Sockets	

2 - OBSERVATION

MCTs are missing.

Name: Luca Mussi

Date: 2024-12-31

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	2024-12-31
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


UN3082



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002260

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000604	1.4 Discipline	Electrical
1.2 Item	P-ESO-200N1-05-L1-02		Small Power Socket JB(Upper Deck) / Small Power Socket (Upper Deck)
1.3 Subsystem	83-55		Power Sockets

2 - OBSERVATION

Not enought threads are thightened between the lock nut and the cable gland body.

Name: Luca Mussi

Date: 2024-12-31

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-31
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-23

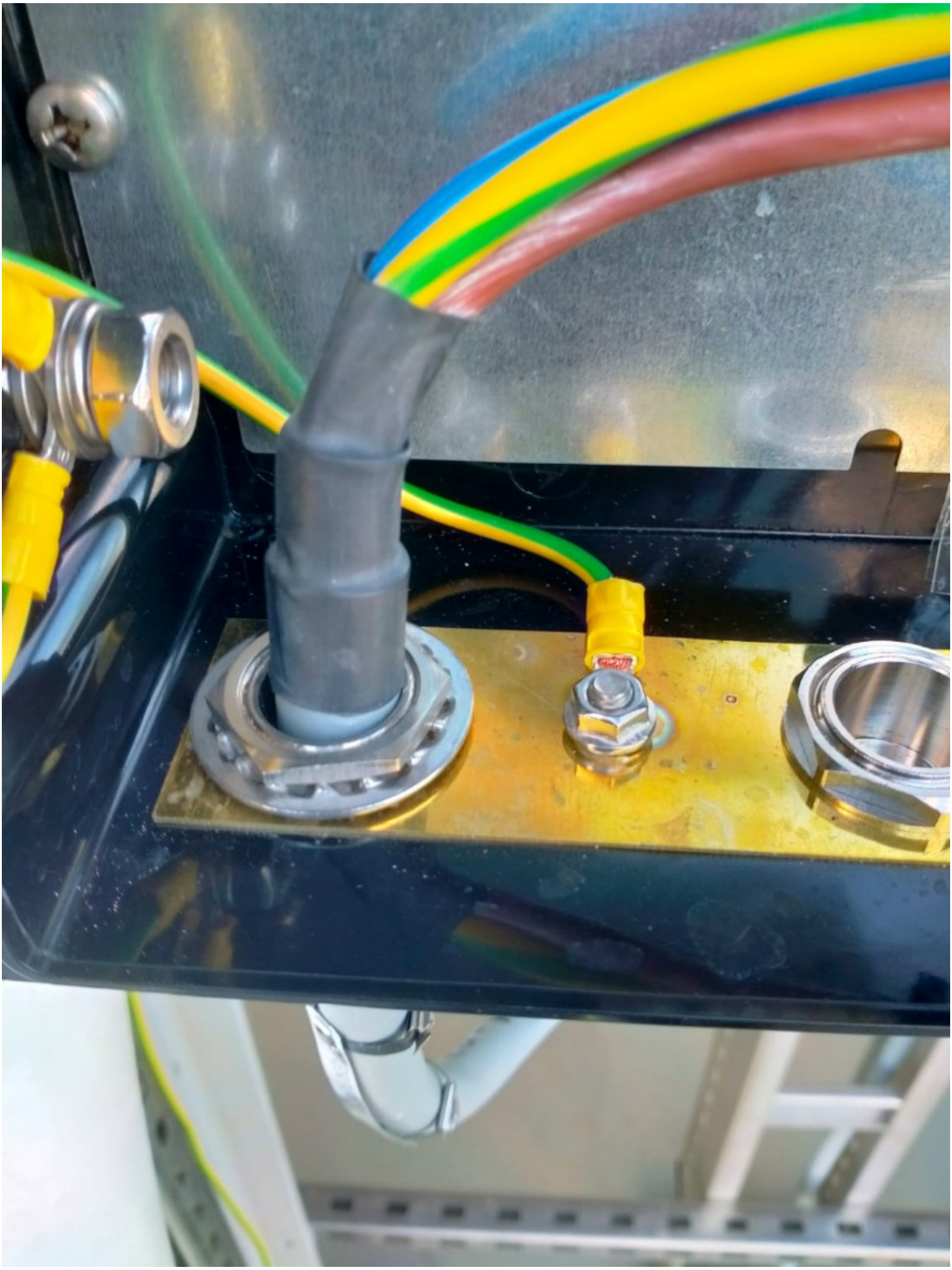
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003444

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002853	1.4 Discipline	Electrical
1.2 Item	DP-200N1-Q6	POWER SOCKET - DP-200N1-Q6	
1.3 Subsystem	83-55	Power Sockets	

2 - OBSERVATION

Missing the socket ESO-200N1-06-L2-03 and the relative cable P-ESO-200N1-06-L2-03.
See the attached.

Name: Mattia Girotti
Date: 2025-01-31
Signature:

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal: Install the cable and the Socket.

3.2 Material required:

3.3 Priority: B PL B

3.4 Activity code: COMM Commissioning

3.5 Action by: RM_CONSTR RM

Name: Mattia Girotti
Date: 2025-01-31
Signature:

4 - PERFORMED ACTION

The socket is installed and the cable was tested.
Ref. C10004960 (task offshore) for the final test

Name: Mattia Girotti
Date: 2025-06-03
Signature:

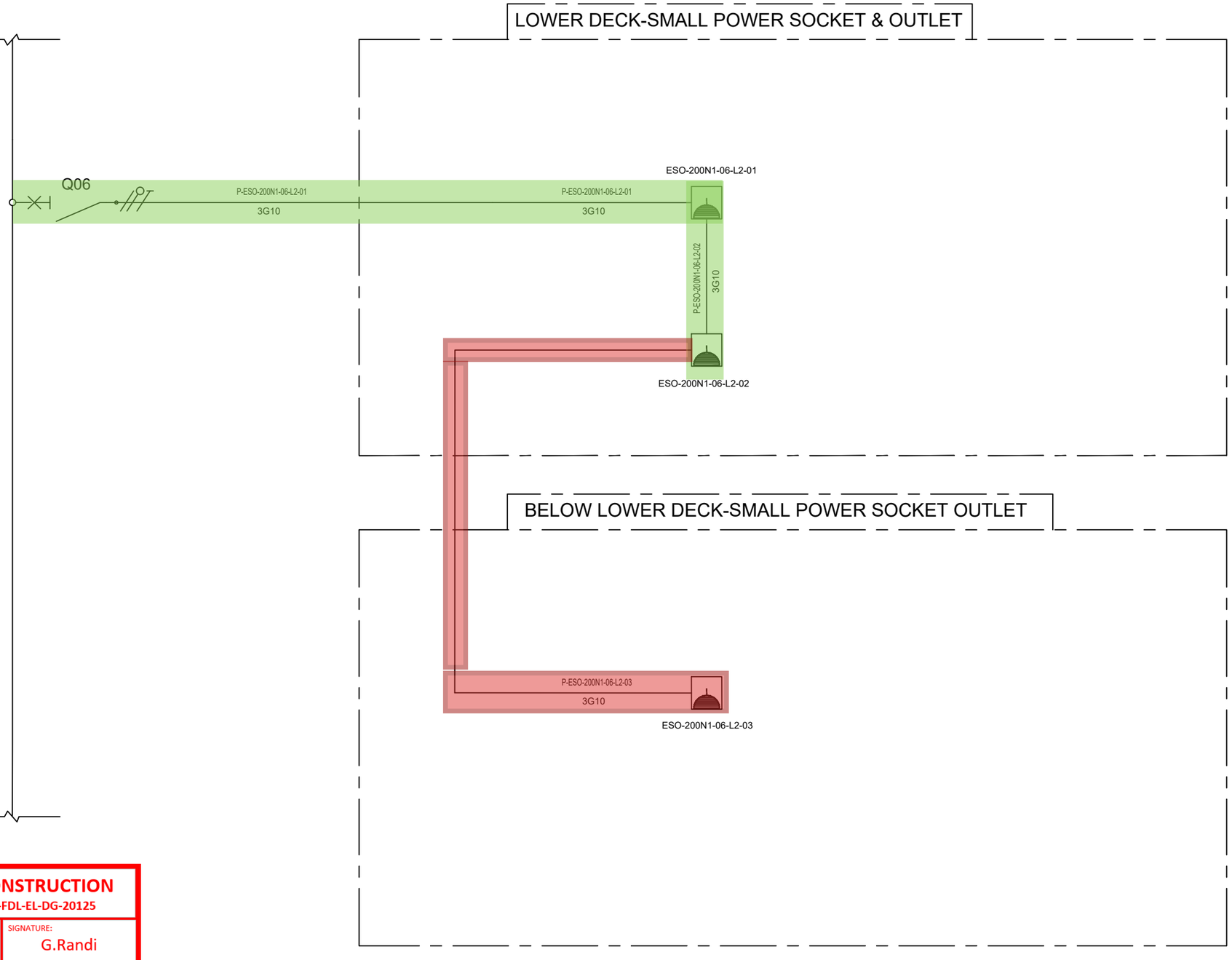
5 - CLEARANCE CHECK

Name: Mattia Girotti
Date: 2025-06-03
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK-SMALL POWER SOCKET

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

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 008

REV. 01

File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001119

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000606	1.4 Discipline	Electrical
1.2 Item	P-ESO-200N1-06-L2-01		Small Power Socket JB (Lower Deck) / Small Power Socket (Lower Deck)
1.3 Subsystem	83-55		Power Sockets

2 - OBSERVATION

Missing SS cable tags

Name: Paolo Schintu

Date: 2024-12-02

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-02
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001120

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000606	1.4 Discipline	Electrical
1.2 Item	P-ESO-200N1-06-L2-01		Small Power Socket JB (Lower Deck) / Small Power Socket (Lower Deck)
1.3 Subsystem	83-55		Power Sockets

2 - OBSERVATION

Missing core identification tags inside socket JB

Name: Paolo Schintu

Date: 2024-12-02

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-02
3.5 Action by	PRE-COMM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001182

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000602	1.4 Discipline	Electrical
1.2 Item	P-ESO-200N1-05-L1-01	Small Power Socket JB(Upper Deck) / Small Power Socket (Upper Deck)	
1.3 Subsystem	83-55	Power Sockets	

2 - OBSERVATION

Missing SS cable tag

Name: Paolo Schintu

Date: 2024-12-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001183

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000602	1.4 Discipline	Electrical
1.2 Item	P-ESO-200N1-05-L1-01	Small Power Socket JB(Upper Deck) / Small Power Socket (Upper Deck)	
1.3 Subsystem	83-55	Power Sockets	

2 - OBSERVATION

Missing core identification tag both side

Name: Paolo Schintu

Date: 2024-12-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-25

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001968

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001853	1.4 Discipline	Electrical
1.2 Item	ESO-200N1-05-L1-02	Small Power Socket (Upper Deck)	
1.3 Subsystem	83-55	Power Sockets	

2 - OBSERVATION

Plugs are installed without serrated washer

Name: Luca Mussi

Date: 2024-12-17

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	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001969

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001853	1.4 Discipline	Electrical
1.2 Item	ESO-200N1-05-L1-02	Small Power Socket (Upper Deck)	
1.3 Subsystem	83-55	Power Sockets	

2 - OBSERVATION

Not enought threads are thightened between the lock nut and the cable gland body.

Name: Luca Mussi

Date: 2024-12-17

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Duplicate point. Refer to C30002260

Name: Eleonora Carotenuto

Date: 2025-01-03

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



Section 4 FUNCTIONAL TESTS SHEETS

Section 4.1 Electrical functional test sheets index

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-55 & process: COMM & discipline : E

Electrical	83-55 Power Sockets						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
DP-200N1-Q5	POWER SOCKET - DP-200N1-Q5	ONSHORE	C10002852	FP18	100	2025-02-04	RFO 2
DP-200N1-Q6	POWER SOCKET - DP-200N1-Q6	ONSHORE	C10002853	FP18	100	2025-02-04	RFO 2
		OFFSHORE	C10004960	FP18	0	-	-

ITEM	Tag	DP-200N1-Q5	: POWER SOCKET - DP-200N1-Q5		Dwg	1723002197-EL-DG-00013	
	S/Sys	83-55	: Power Sockets		Module		
TASK	code	C10002852	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	PRE-COMM	Activity	FTS	Discipline	Electrical	Form	FP18	Lighting & Small Power

Circuit Data

Circuit N° DP-200N1-Q05

Luminaire quantity: 2 Luminaire type: GRP and/or Aluminium

FUNCTION TEST REQUIREMENT

1	Check MC activities have been carried out (refer to check list and test sheet).		OK
2	Check equipments for cleaness.		OK
3	Measure Insulation resistance of equipments and feeder cable at 500V. Minimum value: 10 Mohm	MΩ	Note
4	Energise		OK
5	Test earth leakage protection operation (if any)		Note

FOR LIGHTING CIRCUITS ONLY

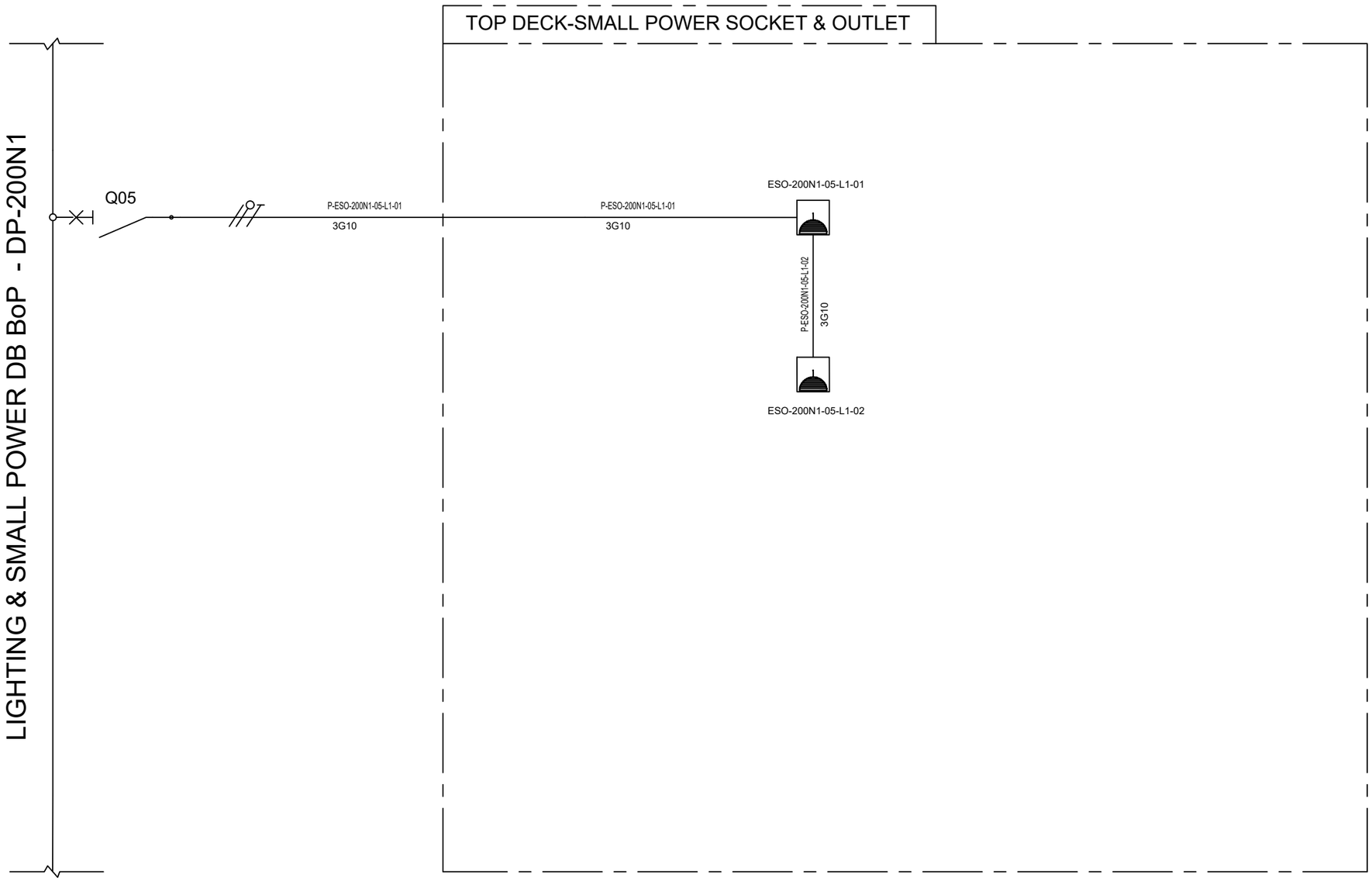
6	Measure full load current of each lighting circuit		A		NA
7	Switch off power supply of self contained battery back-up fittings / record time that lamps remains illuminated.				NA
8	Test automatic switching device (if any)				NA
9	Emergency light autonomy	1h	1h 30min	3h	

Testing & measurement instruments used

Type	Serial n°	Calibration certificate	Validity
FLUKE 1663	5380144	7727/24	10/07/2025

Comments: NOTE POINT 3: TEST IS OK AND THE VALUE IS >500MOhm
NOTE POINT 5: TEST IS OK AND THE VALUE IS:
- ESO-200N1-05-L1-01 21mA - 57,6ms;
- ESO-200N1-05-L1-02 21mA - 58,3ms.

	Performed by	☐ WITNESS ☉ REVIEW	☐ WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	CPY NOT PRESENT
Name	Mattia Girotti	Kristian Castellani	Witness waived
Date	2025-01-31	2025-02-04	2025-02-04
Signature	Digitaly signed by Mattia Girotti 2025-01-31T15:58:32.328Z	Digitaly signed by Kristian Castellani 2025-02-04T10:33:40.164Z	Digitaly signed by Witness waived 2025-02-04T13:17:20.161Z



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK-SMALL POWER SOCKET

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

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 012

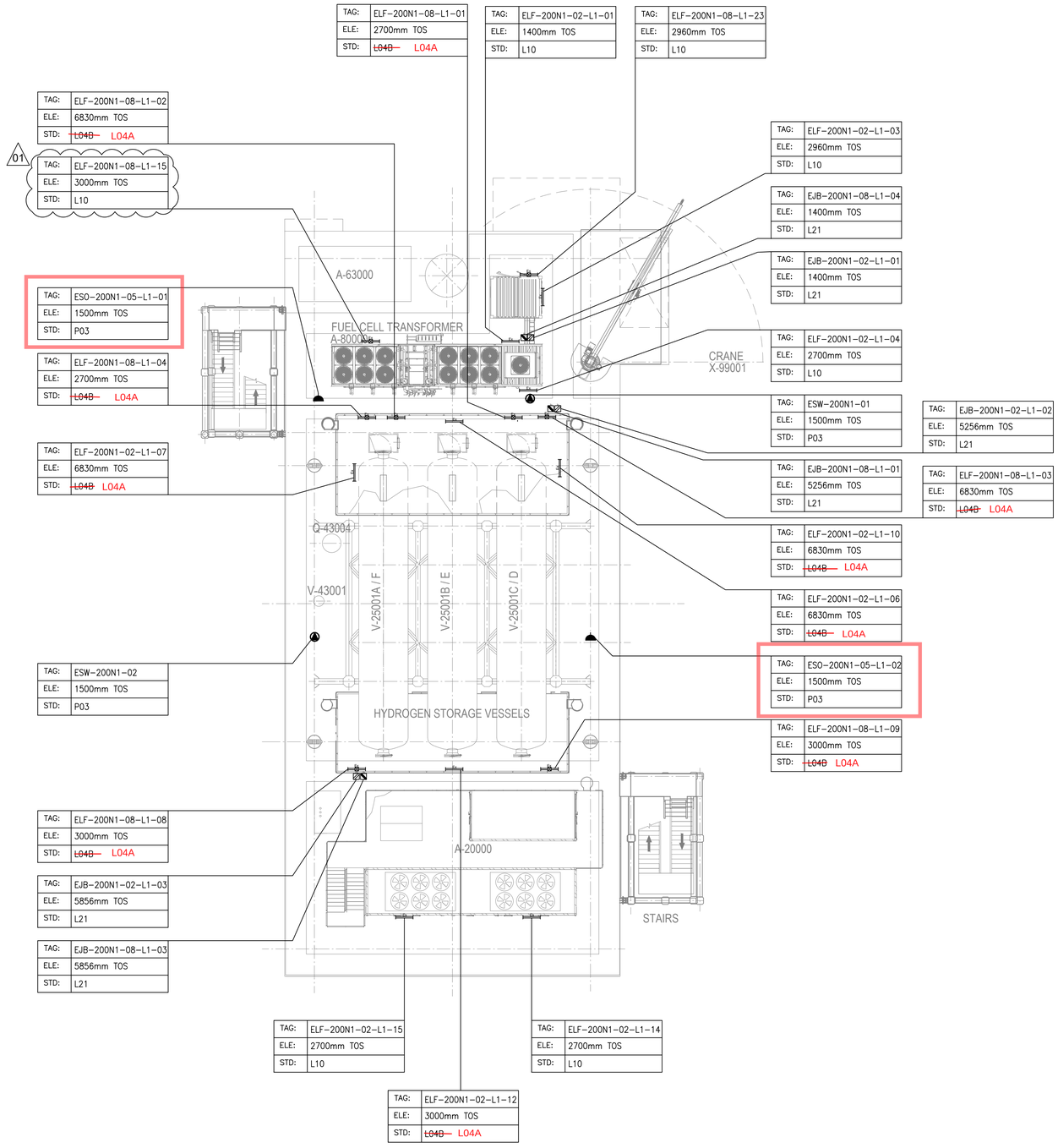
REV. 01

File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



TAG:	ELF-200N1-08-L1-01
ELE:	2700mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-02-L1-01
ELE:	1400mm TOS
STD:	L10

TAG:	ELF-200N1-08-L1-23
ELE:	2960mm TOS
STD:	L10

TAG:	ELF-200N1-08-L1-02
ELE:	6830mm TOS
STD:	~~L04B~~ L04A

01

TAG:	ELF-200N1-08-L1-15
ELE:	3000mm TOS
STD:	L10

TAG:	ELF-200N1-02-L1-03
ELE:	2960mm TOS
STD:	L10

TAG:	EJB-200N1-08-L1-04
ELE:	1400mm TOS
STD:	L21

TAG:	EJB-200N1-02-L1-01
ELE:	1400mm TOS
STD:	L21

TAG:	ESO-200N1-05-L1-01
ELE:	1500mm TOS
STD:	P03

TAG:	ELF-200N1-02-L1-04
ELE:	2700mm TOS
STD:	L10

TAG:	ELF-200N1-08-L1-04
ELE:	2700mm TOS
STD:	~~L04B~~ L04A

TAG:	ESW-200N1-01
ELE:	1500mm TOS
STD:	P03

TAG:	EJB-200N1-02-L1-02
ELE:	5256mm TOS
STD:	L21

TAG:	ELF-200N1-02-L1-07
ELE:	6830mm TOS
STD:	~~L04B~~ L04A

TAG:	EJB-200N1-08-L1-01
ELE:	5256mm TOS
STD:	L21

TAG:	ELF-200N1-08-L1-03
ELE:	6830mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-02-L1-10
ELE:	6830mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-02-L1-06
ELE:	6830mm TOS
STD:	~~L04B~~ L04A

TAG:	ESW-200N1-02
ELE:	1500mm TOS
STD:	P03

TAG:	ESO-200N1-05-L1-02
ELE:	1500mm TOS
STD:	P03

TAG:	ELF-200N1-08-L1-09
ELE:	3000mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-08-L1-08
ELE:	3000mm TOS
STD:	~~L04B~~ L04A

TAG:	EJB-200N1-02-L1-03
ELE:	5856mm TOS
STD:	L21

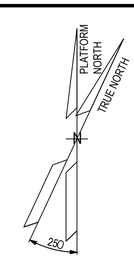
TAG:	EJB-200N1-08-L1-03
ELE:	5856mm TOS
STD:	L21

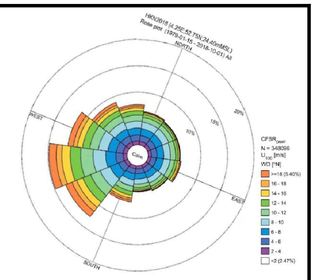
TAG:	ELF-200N1-02-L1-15
ELE:	2700mm TOS
STD:	L10

TAG:	ELF-200N1-02-L1-14
ELE:	2700mm TOS
STD:	L10

TAG:	ELF-200N1-02-L1-12
ELE:	3000mm TOS
STD:	~~L04B~~ L04A

PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

ITEM	Tag	DP-200N1-Q6	: POWER SOCKET - DP-200N1-Q6		Dwg	1723002197-EL-DG-00013	
	S/Sys	83-55	: Power Sockets		Module		
TASK	code	C10002853	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	PRE-COMM	Activity FTS	Discipline Electrical	Form FP18	Lighting & Small Power	

Circuit Data

Circuit N° DP-200N1-Q06

Luminaire quantity: 3 Luminaire type: GRP and/or Aluminium

FUNCTION TEST REQUIREMENT

1	Check MC activities have been carried out (refer to check list and test sheet).		OK
2	Check equipments for cleaness.		OK
3	Measure Insulation resistance of equipments and feeder cable at 500V. Minimum value: 10 Mohm	MΩ	Note
4	Energise		OK
5	Test earth leakage protection operation (if any)		Note

FOR LIGHTING CIRCUITS ONLY

6	Measure full load current of each lighting circuit		A		NA
7	Switch off power supply of self contained battery back-up fittings / record time that lamps remains illuminated.				NA
8	Test automatic switching device (if any)				NA
9	Emergency light autonomy	1h	1h 30min	3h	

Testing & measurement instruments used

Type	Serial n°	Calibration certificate	Validity
FLUKE 1663	5380144	7727/24	10/07/2025

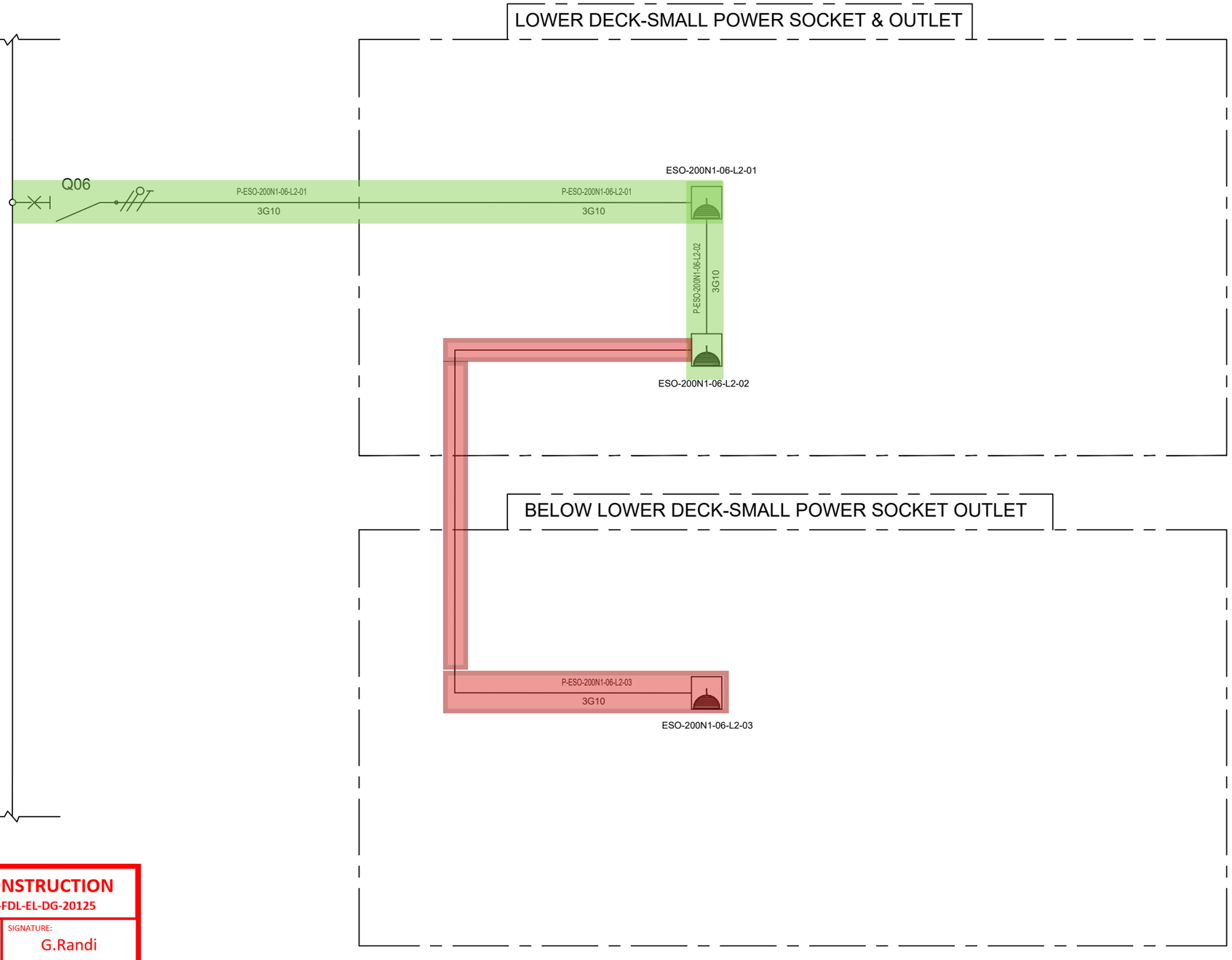
Comments:

NOTE POINT 3: TEST IS OK AND THE VALUE IS >500MOhm
NOTE POINT 5: TEST IS OK AND THE VALUE IS:
- ESO-200N1-06-L2-01 21mA - 49.8ms;
- ESO-200N1-06-L2-02 18mA - 50.4ms

See PL.: C30003444 for complete the circuit.

	Performed by	☐ WITNESS ☑ REVIEW	☐ WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	CPY NOT PRESENT
Name	Mattia Girotti	Kristian Castellani	Witness waived
Date	2025-01-31	2025-02-04	2025-02-04
Signature	Digitaly signed by Mattia Girotti 2025-01-31T16:08:44.452Z	Digitaly signed by Kristian Castellani 2025-02-04T10:34:25.644Z	Digitaly signed by Witness waived 2025-02-04T13:18:08.073Z

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK-SMALL POWER SOCKET

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

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 008

REV. 01

File Name : 123A90-DDL-EL-DG-20125

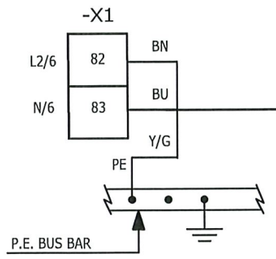
F.to UNI A3: 420mmx297mm

Section 4.2 Electrical
“As-Commissioned” interconnection diagrams

FROM	TO

DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

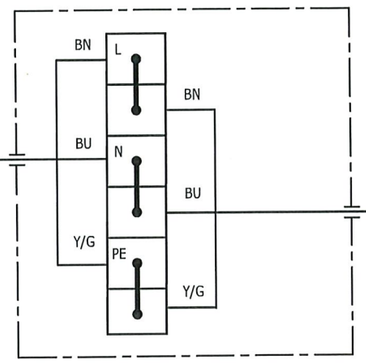
CUBICLE/CB: +03/Q6



P-ESO-200N1-06-L2-01
3G10 mm²

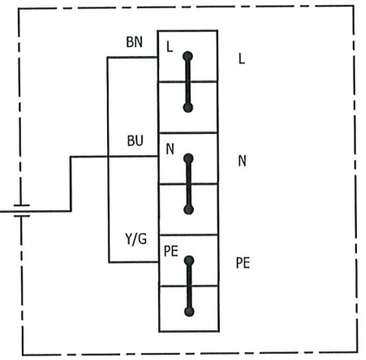
NO MARK UP
MARCO MORETTO
31/3/25

DESCRIPTION:SMALL POWER SOCKET JB(LOWER DECK)
TAG NUMBER:ESO-200N1-06-L2-01

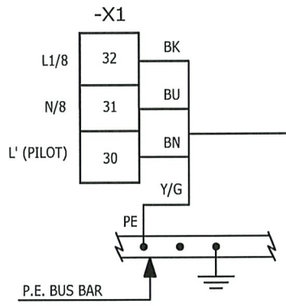


P-ESO-200N1-06-L2-02
3G10 mm²

DESCRIPTION:SMALL POWER SOCKET JB(LOWER DECK)
TAG NUMBER:ESO-200N1-06-L2-02



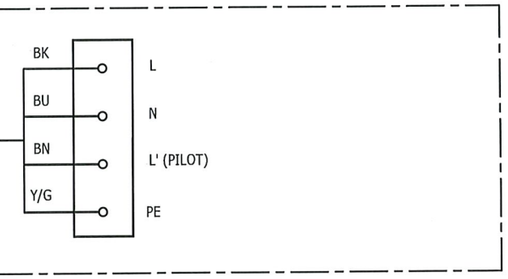
CUBICLE/CB: +01/Q8



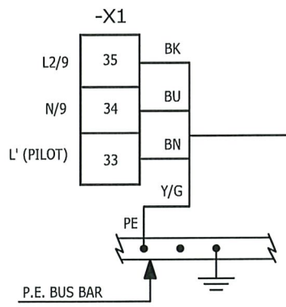
P-EJB-200N1-08-L1-04
4G4_E mm²

NO MARK UP
MARCO MORETTO
31/3/25

DESCRIPTION: EMERGENCY LIGHTING UPPER DECK - CIRCUIT NO. 1
TAG NUMBER: EJB-200N1-08-L1-04



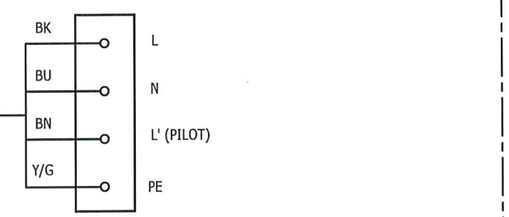
CUBICLE/CB: +01/Q9



P-EJB-200N1-09-L2-01
4G4_E mm²

NO MARK UP
MARCO MORETTO
31/3/25

DESCRIPTION: EMERGENCY LIGHTING LOWER DECK - CIRCUIT NO. 1
TAG NUMBER: EJB-200N1-09-L2-01



AS COMMISSIONED: MARIA GIRONI
31/3/25

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20149**

REV.:	DATE:	SIGNATURE:
2_F	09/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

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

SCALE : 1:X

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20149	046	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION:LIGHTING & SMALL POWER DB BOP
TAG NUMBER:DP-200N1

CUBICLE/CB: +01/Q2

-X1
L1/2 — 10 — BN
N/2 — 11 — BU
Y/G
PE
P.E. BUS BAR

NO MARK UP
MARCO MORETTO
3/4/25

P-EJB-200N1-02-L1-01
3G4 mm²

NO MARK UP
AS COMMISSIONED:
MATIA GIROTTI
3/4/25

DESCRIPTION:NORMAL LIGHTING UPPER DECK - CIRCUIT NO. 1
TAG NUMBER:EJB-200N1-02-L1-01

BN — L
BU — N
Y/G — PE

CUBICLE/CB: +02/Q3

-X1
L2/3 — 12 — BN
N/3 — 13 — BU
Y/G
PE
P.E. BUS BAR

NO MARK UP
MARCO MORETTO
3/4/25

P-EJB-200N1-03-L2-01
3G4 mm²

DESCRIPTION:NORMAL LIGHTING LOWER DECK - CIRCUIT NO. 1
TAG NUMBER:EJB-200N1-03-L2-01

BN — L
BU — N
Y/G — PE

CUBICLE/CB: +02/Q4

-X1
L3/4 — 14 — BN
N/4 — 15 — BU
Y/G
PE
P.E. BUS BAR

NO MARK UP
MARCO MORETTO
3/4/25

P-EJB-200N1-04-L3-01
3G4 mm²

DESCRIPTION:NORMAL LIGHTING - STAIRS
TAG NUMBER:EJB-200N1-04-L3-01

BN — L
BU — N
Y/G — PE

CUBICLE/CB: +03/Q5

-X1
L1/5 — 80 — BN
N/5 — 81 — BU
Y/G
PE
P.E. BUS BAR

NO MARK UP
MARCO MORETTO
3/4/25

P-ESO-200N1-05-L1-01
3G10 mm²

DESCRIPTION:SMALL POWER SOCKET JB(UPPER DECK)
TAG NUMBER:ESO-200N1-05-L1-01

BN — L — BN
BU — N — BU
Y/G — PE — Y/G

P-ESO-200N1-05-L1-02
3G10 mm²

DESCRIPTION:SMALL POWER SOCKET JB(UPPER DECK)
TAG NUMBER:ESO-200N1-05-L1-02

BN — L — L
BU — N — N
Y/G — PE — PE

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20149**

REV.:	DATE:	SIGNATURE:
2_F	09/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:X

A3 | DRAWING NO. 123A90-DDL-EL-DG-20149 | SHEET 045 | REV. 02

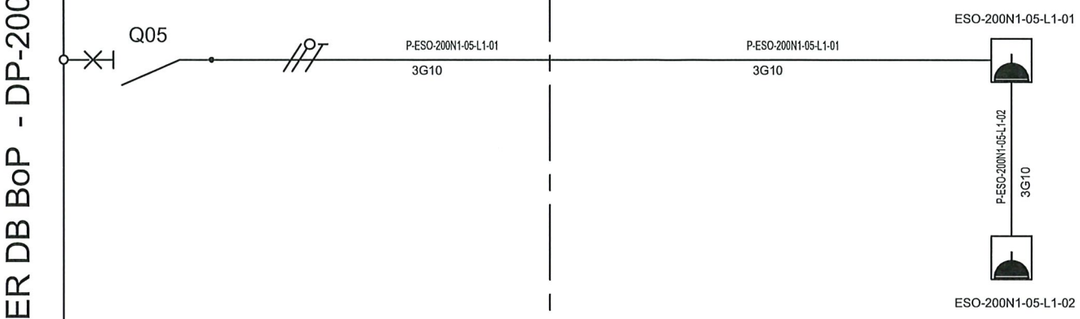
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q05

TOP DECK-SMALL POWER SOCKET & OUTLET



DO MARK UP
AS COMMISSIONED: MARIA GIRON
28/5/25

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DG-20125

REV.:	DATE:	SIGNATURE:
2_H	24/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK-SMALL POWER SOCKET

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

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 012

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q06

LOWER DECK-SMALL POWER SOCKET & OUTLET

P-ESO-200N1-06-L2-01
3G10

ESO-200N1-06-L2-01

P-ESO-200N1-06-L2-02
3G10

ESO-200N1-06-L2-02

BELOW LOWER DECK-SMALL POWER SOCKET OUTLET

P-ESO-200N1-06-L2-03
3G10

ESO-200N1-06-L2-03

NO MARK UP
AS COMMISSIONED: MA MA GIRO TI.
28/5/25

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DG-20125

REV.:	DATE:	SIGNATURE:
2_H	24/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK-SMALL POWER SOCKET

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

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 008

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

Section 4.3 Instrumentation functional test sheets index

NOT APPLICABLE

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

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

NOT APPLICABLE

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

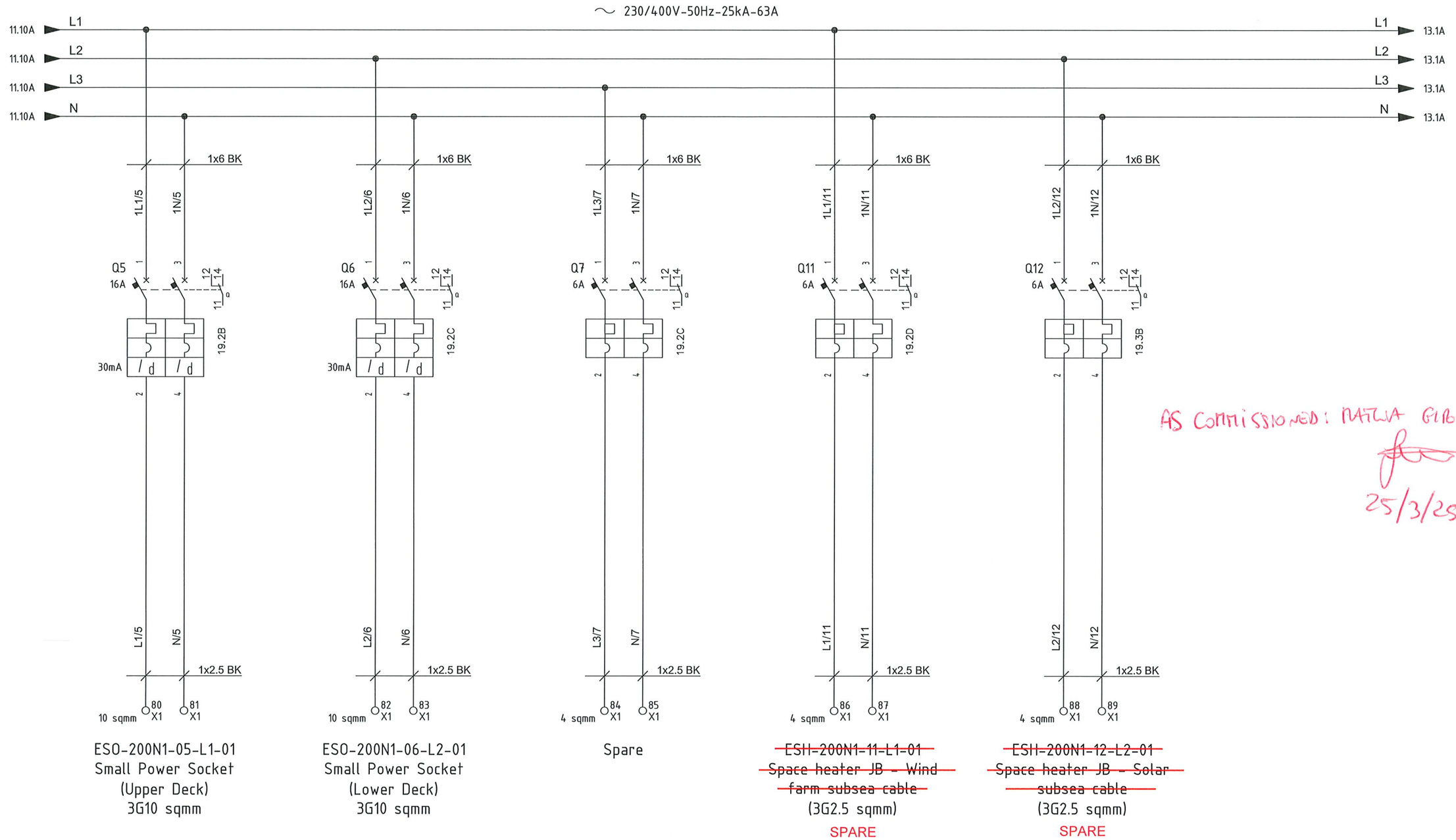
Section 7.2 SAT Procedure with associated punch list and reference (Front Page)

NOT APPLICABLE

Section 7.3 Vendor Spares & Special Tools lists references

NOT APPLICABLE

Section 7.4 Vendor Data / Operations / Maintenance Manuals References



ESO-200N1-05-L1-01
Small Power Socket
(Upper Deck)
3G10 sqmm

ESO-200N1-06-L2-01
Small Power Socket
(Lower Deck)
3G10 sqmm

Spare

~~ESH-200N1-11-L1-01~~
~~Space heater JB - Wind farm subsea cable~~
(3G2.5 sqmm)
SPARE

~~ESH-200N1-12-L2-01~~
~~Space heater JB - Solar subsea cable~~
(3G2.5 sqmm)
SPARE

AS COMMISSIONED: MATTIA GIBZN
25/3/25

VALID FOR CONSTRUCTION
VENDOR DOCUMENT - FDL DWG:
123A90-FDL-1724002197-EL-DG-00033

REV.:	DATE:	SIGNATURE:
3_A	18/03/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n° : 231298/SD/33
Item n° : PF1002888/101

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
3	12/03/2025	Santinelli	Flamminio	Sigismondi	Replaced Twiligh Switch TW1
2	19/08/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
1	05/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for construction (AFC)
0	29/05/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

TITLE : "DP-200N1"
LV SWBD FUNCTIONAL DIAGRAMS
Functional Drawing

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00033

SHEET 12

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00033 Rev. 03

Section 8 LIST OF MODIFICATIONS

NOT APPLICABLE

Section 8.1 List of changes

NOT APPLICABLE

Section 9 SUPPORTING DOCUMENTS

NOT APPLICABLE