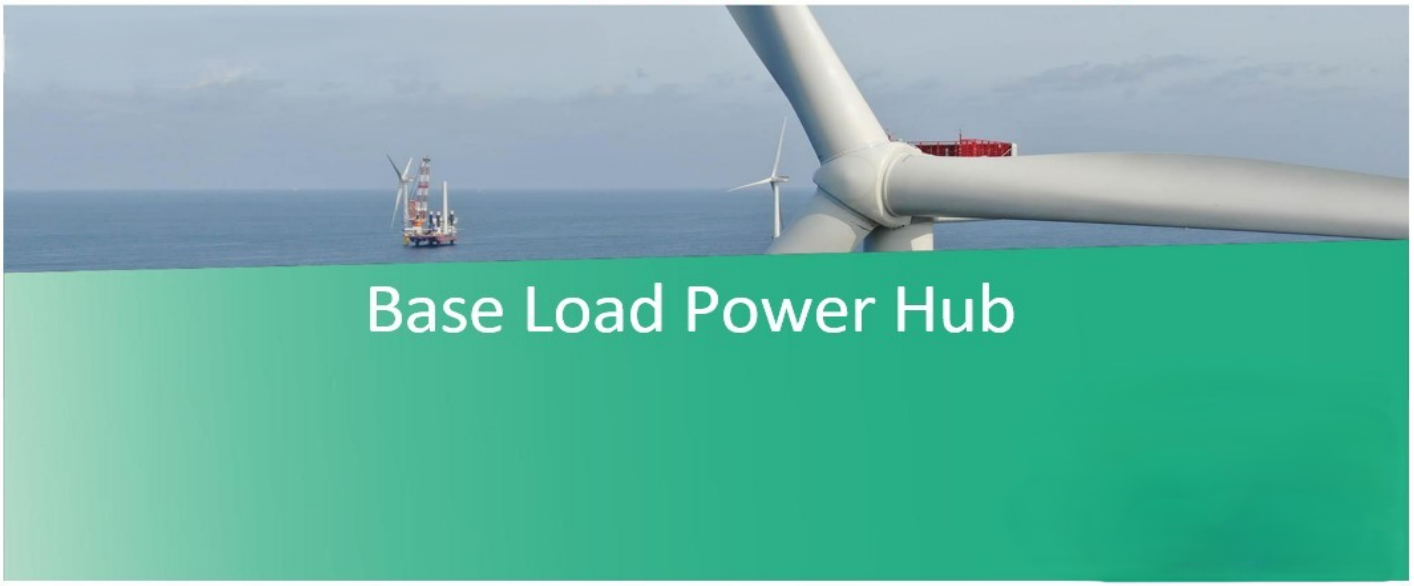
CROSSWIND

ROSETTI MARINO

PROVERUS

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



COMMISSIONING DOSSIER (ONSHORE)

SYSTEM	83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-37 Emergency Lighting Stairs/Transition Piece

CROSSWIND

123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

COMMISSIONING DOSSIER INDEX

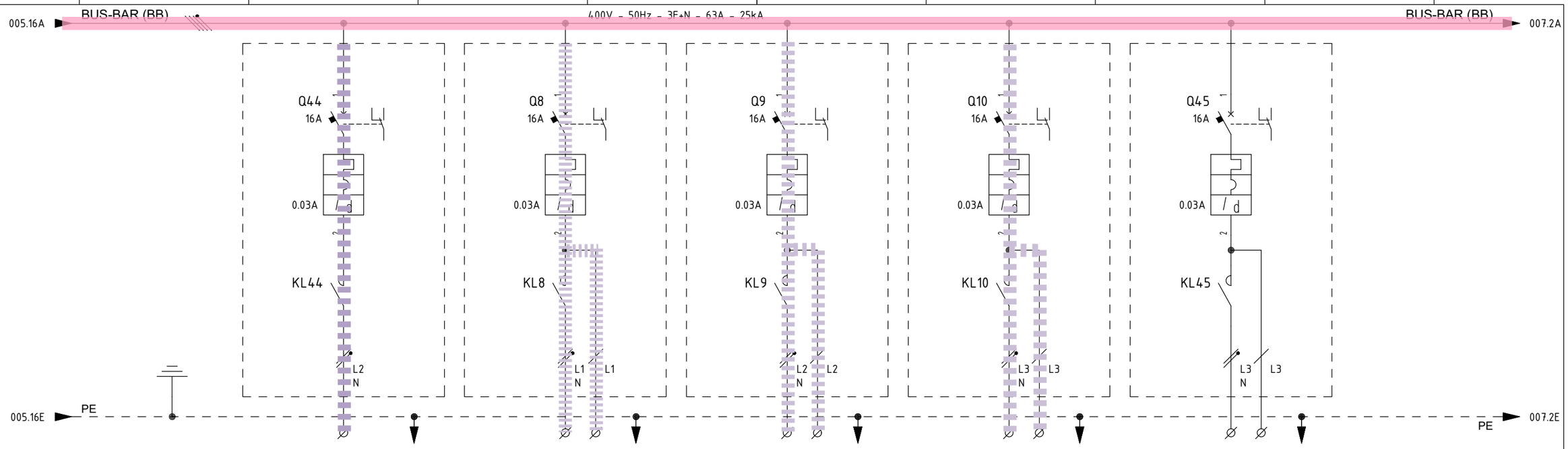
ROSETTI MARINO

Sub System N°:	83-37	**Tick as appropriate**	ONSHORE	OK
Description:	Emergency Lighting Stairs/Transition Piece		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*	OK
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	2025-06-20	2025-06-20
Signature	PROVERLIS Digitaly signed by Anthony Iveson 2025-06-20T11:26:53.363Z	PROVERLIS Digitaly signed by Martin Taylor 2025-06-20T11:50:42.589Z

Section 1 SUB-SYSTEM DEFINITION



ITEM			1	-		EJB-200N1-08-L1-01		EJB-200N1-09-L2-01		EJB-200N1-10-L3-01		-			
UTILITY			2	NORMAL LIGHTING - SPARE		EMERGENCY LIGHTING UPPER DECK		EMERGENCY LIGHTING LOWER DECK		EMERGENCY LIGHTING STAIRS		EMERGENCY LIGHTING - SPARE			
CUBICLE			3	+02		+02		+02		+02		+02			
RATED POWER	RATED CURRENT		4/5	1 KW	4.58 A	1.5 KW	6.86 A	1.5 KW	6.86 A	0.30 KW	1.37 A	1.5 KW	6.86 A		
TYPICAL FUNCTIONAL			6	-		-		-		-		-			
CIRCUIT BREAKER (ABB)	TYPE		7	S302P-C16 + DDA202 AC-25/0.03		S302P-D16 + DDA202 AC-25/0.03		S302P-D16 + DDA202 AC-25/0.03		S302P-D16 + DDA202 AC-25/0.03		S302P-D16 + DDA202 AC-25/0.03			
	VERSION		8	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 D / Id=0.03A Class AC		In=16A - Curve D / Id=0.03A Class AC		In=16A - Curve D / Id=0.03A Class AC		In=16A - Curve D / Id=0.03A Class AC			
	Icu	KA	10	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	ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac		ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac		ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac		ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac		ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac			
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 / 4		SCREW / 4		SCREW / 4		SCREW / 4		SCREW / 4			
POWER CONDUCTOR		mm²	31	-		4G4_E		4G4_E		4G4_E		-			

SUBSYSTEM 83-43

SUBSYSTEM 83-35

SUBSYSTEM 83-36

SUBSYSTEM 83-37

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n° : 231298/SD/13

Item n° : PF1002888/101

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)

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 006

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:	1		Issued on:	2025-06-05	
System:	83	/	Main Power Distribution Low Voltage 440 V		
SubSystem:	83-37	/	Emergency Lighting Stairs/Transition Piece		

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: 5

REMARKS:

	CONTRACTOR Commissioning Manager	**COMPANY** Commissioning Lead
Name	Anthony Iveson	Martin Taylor
Date	2025-06-05	2025-06-20
Signature	PROVERLIS Digitaly signed by Anthony Iveson 2025-06-05T12:10:19.089Z	PROVERLIS Digitaly signed by Martin Taylor 2025-06-20T11:05:52.934Z

CROSSWIND

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-37 & process: COMM

Electrical	83-37 Emergency Lighting Stairs/Transition Piece						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
DP-200N1-Q10	EMERGENCY LIGHT STAIRSSPAREDP-200N1-Q10	ONSHORE	C10002905	FP18	100	2025-06-03	RFO 1
		ONSHORE	C10004957	FP21	100	2025-06-05	RFO 1
		OFFSHORE	C10004974	FP18	0	-	-

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-37	Emergency Lighting Stairs/Transition Piece

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004046	B	P-ELF-200N1-10-L3-05 C10000827	Missing cable tag SS , near the lamp	.		APolo 2025-02-20	2025-02-26	APolo 2025-02-26	2025-02-26
C30004047	B	ELF-200N1-10-L3-05 C10001323	Missing traffolyte tag side lamp	.		APolo 2025-02-20	2025-02-26	APolo 2025-02-26	2025-02-26
C30004048	B	ELF-200N1-10-L3-05 C10001323	Missing cores identification tag. . inside lamp . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-02-20	2025-02-26	APolo 2025-02-26	2025-02-26
C30004049	B	ELF-200N1-10-L3-05 C10001323	The support is not well secured against vibration. another bracket needs to be added.	.		APolo 2025-02-20	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30004050	B	P-EJB-200N1-10-L3-03 C10000826	Missing cable tag SS , coiled cable side	.		APolo 2025-02-20	2025-02-26	APolo 2025-02-26	2025-02-26
C30004162	B	P-EJB-200N1-09-L2-17 C10002065	Missing the SS cable tag side (EJB-200N1-09-L2-04).	.		Gtangianu 2025-02-27	2025-03-26	Gtangianu 2025-03-26	2025-03-26
C30004236	B	P-EJB-200N1-10-L3-02 C10000824	Missing cable tag both side .(P-EJB-200N1-10-L3-02).See attached photo.	.		Gtangianu 2025-03-11	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30004332	B	ELF-200N1-10-L3-01 C10001316	Light and cable are installed in temporary position due to missing mechanical support .	.		Gtangianu 2025-04-17			
C30004333	B	EJB-200N1-10-L3-02 C10001429	EJB-200N1-10-L3-02 and cable are installed in temporary position due to missing mechanical support	.		Gtangianu 2025-04-17			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM 83-37 Emergency Lighting Stairs/Transition Piece

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004334	B	C-ELS-200N1-09-L2-01 C10000818	Missing tag wires bot side the cable. See attached photo.	.		Gtangianu 2025-04-24	2025-05-13	Gtangianu 2025-05-13	2025-05-13
C30004335	B	ELS-200N1-09-L2-01 C10003048	The trafolite tag is not installed. See attached photo.	.		Gtangianu 2025-04-24	2025-05-15	Gtangianu 2025-05-15	2025-05-15
C30004343	B	ELF-200N1-10-L3-06 C10001322	Missing trafolite tag.	.		Gtangianu 2025-04-29	2025-04-30	Gtangianu 2025-04-30	2025-04-30
C30004344	B	ELF-200N1-10-L3-11 C10001843	Missing trafolite tag.	.		Gtangianu 2025-04-29	2025-04-30	Gtangianu 2025-04-30	2025-04-30
C30004345	B	ELF-200N1-10-L3-12 C10001844	Missing trafolite tag.	.		Gtangianu 2025-04-29	2025-04-30	Gtangianu 2025-04-30	2025-04-30
C30004351	B	ELF-200N1-10-L3-09 C10001858	Not installed the protection plug on the unistrut support. See attached photo	.		Gtangianu 2025-05-05	2025-05-09	Gtangianu 2025-05-09	2025-05-09
C30004352	B	ELF-200N1-10-L3-14 C10002076	Not installed the protection plug on the unistrut support. See attached photo-.	.		Gtangianu 2025-05-05	2025-05-09	Gtangianu 2025-05-09	2025-05-09
C30004353	B	ELF-200N1-10-L3-08 C10001328	Not installed the protection plug on the unistrut support. See attached photo	.		Gtangianu 2025-05-05	2025-05-09	Gtangianu 2025-05-09	2025-05-09
C30004354	B	ELF-200N1-10-L3-10 C10001859	Not installed the protection plug on the unistrut support.	.		Gtangianu 2025-05-05	2025-05-09	Gtangianu 2025-05-09	2025-05-09

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-37	Emergency Lighting Stairs/Transition Piece

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004355	B	P-ELF-200N1-10-L3-08 C10000833	THE WIRING AND TYPE OF CABLE MUST BE UPDATE. (FIELD INSTALLED 4G2,5_E_Arm mm2 _black).	.		Gtangianu 2025-05-05			
C30004356	B	P-ELF-200N1-10-L3-09 C10001815	THE WIRING AND TYPE OF CABLE MUST BE UPDATE. (FIELD INSTALLED 4G2,5_E_Arm mm2 _black).	.		Gtangianu 2025-05-05			
C30004357	B	P-ELF-200N1-10-L3-10 C10001817	THE WIRING AND TYPE OF CABLE MUST BE UPDATE. (FIELD INSTALLED 4G2,5_E_Arm mm2 _black).	.		Gtangianu 2025-05-05			

Section 2.2 Exception Punch Lists (per discipline)

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V

SUBSYSTEM 83-37 Emergency Lighting Stairs/Transition Piece

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004332	B	ELF-200N1-10-L3-01 C10001316	Light and cable are installed in temporary position due to missing mechanical support .	.		Gtangianu 2025-04-17			
C30004333	B	EJB-200N1-10-L3-02 C10001429	EJB-200N1-10-L3-02 and cable are installed in temporary position due to missing mechanical support	.		Gtangianu 2025-04-17			
C30004355	B	P-ELF-200N1-10-L3-08 C10000833	THE WIRING AND TYPE OF CABLE MUST BE UPDATE. (FIELD INSTALLED 4G2,5_E_Arm mm2 _black).	.		Gtangianu 2025-05-05			
C30004356	B	P-ELF-200N1-10-L3-09 C10001815	THE WIRING AND TYPE OF CABLE MUST BE UPDATE. (FIELD INSTALLED 4G2,5_E_Arm mm2 _black).	.		Gtangianu 2025-05-05			
C30004357	B	P-ELF-200N1-10-L3-10 C10001817	THE WIRING AND TYPE OF CABLE MUST BE UPDATE. (FIELD INSTALLED 4G2,5_E_Arm mm2 _black).	.		Gtangianu 2025-05-05			

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

AS COMMISSIONED: MATTIA GIUNTA

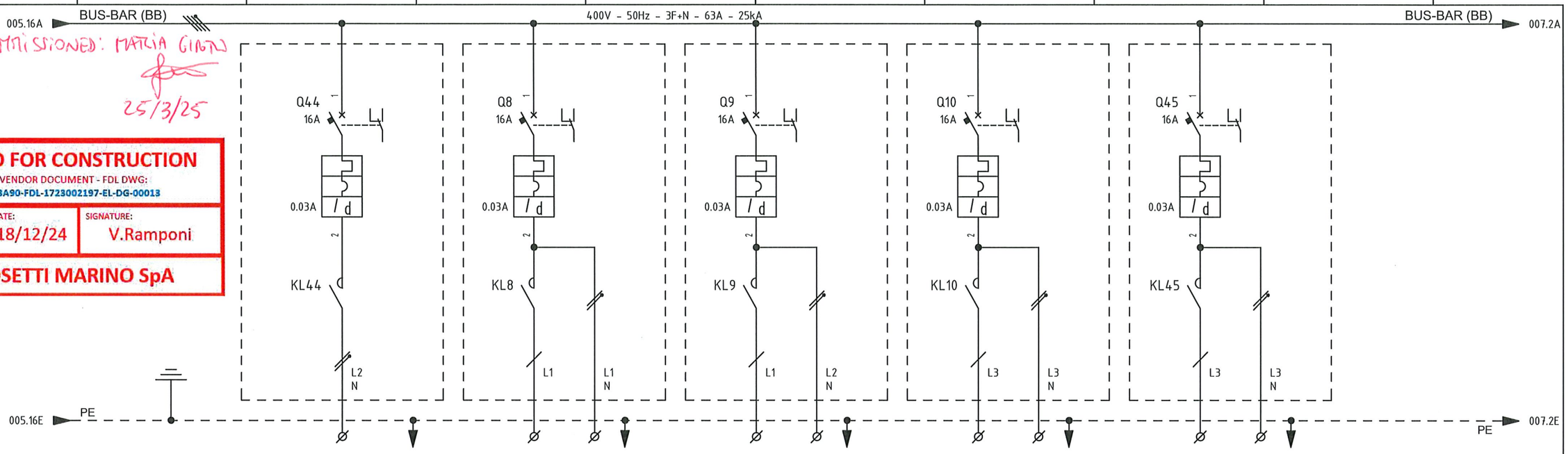
25/3/25

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



ITEM			1	-	EJB-200N1-08-L1-01	EJB-200N1-09-L2-01	EJB-200N1-10-L3-01	-
UTILITY			2	NORMAL LIGHTING - SPARE	EMERGENCY LIGHTING UPPER DECK	EMERGENCY LIGHTING LOWER DECK	EMERGENCY LIGHTING STAIRS	EMERGENCY LIGHTING - SPARE
CUBICLE			3	+02	+02	+02	+02	+02
RATED POWER	RATED CURRENT		4/5	1 KW / 4.58 A	1.5 KW / 6.86 A	1.5 KW / 6.86 A	0.30 KW / 1.37 A	1.5 KW / 6.86 A
TYPICAL FUNCTIONAL			6	-	-	-	-	-
CIRCUIT BREAKER (ABB)	TYPE		7	S302P-C16 + DDA202 AC-25/0.03	S302P-D16 + DDA202 AC-25/0.03	S302P-D16 + DDA202 AC-25/0.03	S302P-D16 + DDA202 AC-25/0.03	S302P-D16 + DDA202 AC-25/0.03
	VERSION		8	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 D / Id=0.03A Class AC	In=16A - Curve D / Id=0.03A Class AC	In=16A - Curve D / Id=0.03A Class AC	In=16A - Curve D / Id=0.03A Class AC
	Icu	KA	10	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	ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac	ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac	ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac	ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac	ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac
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 / 4	SCREW / 4	SCREW / 4	SCREW / 4	SCREW / 4
POWER CONDUCTOR		mm²	31	-	4G4_E	4G4_E	4G4_E	-

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DWG n° : 231298/SD/13

Item n° : PF1002888/101

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

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)

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 006

REV. 04

F.to UNI A3: 420mmx297mm

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

Section 3 CONSOLIDATED PUNCH LISTS

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-37	Emergency Lighting Stairs/Transition Piece

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004046	B	P-ELF-200N1-10-L3-05 C10000827	Missing cable tag SS , near the lamp	.		APolo 2025-02-20	2025-02-26	APolo 2025-02-26	2025-02-26
C30004047	B	ELF-200N1-10-L3-05 C10001323	Missing traffolyte tag side lamp	.		APolo 2025-02-20	2025-02-26	APolo 2025-02-26	2025-02-26
C30004048	B	ELF-200N1-10-L3-05 C10001323	Missing cores identification tag. . inside lamp . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-02-20	2025-02-26	APolo 2025-02-26	2025-02-26
C30004049	B	ELF-200N1-10-L3-05 C10001323	The support is not well secured against vibration. another bracket needs to be added.	.		APolo 2025-02-20	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30004050	B	P-EJB-200N1-10-L3-03 C10000826	Missing cable tag SS , coiled cable side	.		APolo 2025-02-20	2025-02-26	APolo 2025-02-26	2025-02-26
C30004162	B	P-EJB-200N1-09-L2-17 C10002065	Missing the SS cable tag side (EJB-200N1-09-L2-04).	.		Gtangianu 2025-02-27	2025-03-26	Gtangianu 2025-03-26	2025-03-26
C30004236	B	P-EJB-200N1-10-L3-02 C10000824	Missing cable tag both side .(P-EJB-200N1-10-L3-02).See attached photo.	.		Gtangianu 2025-03-11	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30004332	B	ELF-200N1-10-L3-01 C10001316	Light and cable are installed in temporary position due to missing mechanical support .	.	Closed during checks performed in Eemshaven.	Gtangianu 2025-04-17	RDegliEsposti 2025-10-20	RDegliEsposti 2025-10-20	2025-10-20
C30004333	B	EJB-200N1-10-L3-02 C10001429	EJB-200N1-10-L3-02 and cable are installed in temporary position due to missing mechanical support	.	Closed during checks performed in Eemshaven.	Gtangianu 2025-04-17	RDegliEsposti 2025-10-20	RDegliEsposti 2025-10-20	2025-10-20

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-37	Emergency Lighting Stairs/Transition Piece

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004334	B	C-ELS-200N1-09-L2-01 C10000818	Missing tag wires bot side the cable. See attached photo.	.		Gtangianu 2025-04-24	2025-05-13	Gtangianu 2025-05-13	2025-05-13
C30004335	B	ELS-200N1-09-L2-01 C10003048	The trafolite tag is not installed. See attached photo.	.		Gtangianu 2025-04-24	2025-05-15	Gtangianu 2025-05-15	2025-05-15
C30004343	B	ELF-200N1-10-L3-06 C10001322	Missing trafolite tag.	.		Gtangianu 2025-04-29	2025-04-30	Gtangianu 2025-04-30	2025-04-30
C30004344	B	ELF-200N1-10-L3-11 C10001843	Missing trafolite tag.	.		Gtangianu 2025-04-29	2025-04-30	Gtangianu 2025-04-30	2025-04-30
C30004345	B	ELF-200N1-10-L3-12 C10001844	Missing trafolite tag.	.		Gtangianu 2025-04-29	2025-04-30	Gtangianu 2025-04-30	2025-04-30
C30004351	B	ELF-200N1-10-L3-09 C10001858	Not installed the protection plug on the unistrut support. See attached photo	.		Gtangianu 2025-05-05	2025-05-09	Gtangianu 2025-05-09	2025-05-09
C30004352	B	ELF-200N1-10-L3-14 C10002076	Not installed the protection plug on the unistrut support. See attached photo-.	.		Gtangianu 2025-05-05	2025-05-09	Gtangianu 2025-05-09	2025-05-09
C30004353	B	ELF-200N1-10-L3-08 C10001328	Not installed the protection plug on the unistrut support. See attached photo	.		Gtangianu 2025-05-05	2025-05-09	Gtangianu 2025-05-09	2025-05-09
C30004354	B	ELF-200N1-10-L3-10 C10001859	Not installed the protection plug on the unistrut support.	.		Gtangianu 2025-05-05	2025-05-09	Gtangianu 2025-05-09	2025-05-09

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-37	Emergency Lighting Stairs/Transition Piece

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004355	B	P-ELF-200N1-10-L3-08 C10000833	THE WIRING AND TYPE OF CABLE MUST BE UPDATE. (FIELD INSTALLED 4G2,5_E_Arm mm2 _black).	.		Gtangianu 2025-05-05	2025-06-20	Ecarotenuto 2025-06-20	2025-06-20
C30004356	B	P-ELF-200N1-10-L3-09 C10001815	THE WIRING AND TYPE OF CABLE MUST BE UPDATE. (FIELD INSTALLED 4G2,5_E_Arm mm2 _black).	.		Gtangianu 2025-05-05	2025-06-20	Ecarotenuto 2025-06-20	2025-06-20
C30004357	B	P-ELF-200N1-10-L3-10 C10001817	THE WIRING AND TYPE OF CABLE MUST BE UPDATE. (FIELD INSTALLED 4G2,5_E_Arm mm2 _black).	.		Gtangianu 2025-05-05	2025-06-20	Ecarotenuto 2025-06-20	2025-06-20

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004049

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001323	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-05	EMERGENCY LIGHT	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

The support is not well secured against vibration. another bracket needs to be added.

Name: Alessio Polo

Date: 2025-02-20

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	2025-02-20
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004050

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000826	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-10-L3-03	Stair Emergency Lighting JB / Stair Emergency Lighting JB	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing cable tag SS , coiled cable side

Name: Alessio Polo

Date: 2025-02-20

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	2025-02-20
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004162

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002065	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-17	Emergency Lighting JB / Local Switch	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing the SS cable tag side (EJB-200N1-09-L2-04).

Name: Giovanni Tangianu

Date: 2025-02-27

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-02-27
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:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004236

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000824	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-10-L3-02	Stair Emergency Lighting JB / Stair Emergency Lighting JB	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing cable tag both side .(P-EJB-200N1-10-L3-02).See attached photo.

Name: Giovanni Tangianu

Date: 2025-03-11

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-03-11
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-02

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


PE/PE

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004332

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001316	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-01	EMERGENCY LIGHT	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Light and cable are installed in temporary position due to missing mechanical support .

Name: Giovanni Tangianu
Date: 2025-04-17
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-04-17
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Closed during checks performed in Eemshaven.

Name: Raffaele Degli Esposti
Date: 2025-10-20
Signature:

5 - CLEARANCE CHECK

DONE

Name: Raffaele Degli Esposti
Date: 2025-10-20
Signature:

6- CLEARANCE APPROVAL

Name:
Date: 2025-10-20
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004333

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001429	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-10-L3-02	JB - EMERGENCY LIGHTING	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

EJB-200N1-10-L3-02 and cable are installed in temporary position due to missing mechanical support

Name: Giovanni Tangianu
Date: 2025-04-17
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-04-17
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Closed during checks performed in Eemshaven.

Name: Raffaele Degli Esposti
Date: 2025-10-20
Signature:

5 - CLEARANCE CHECK

DONE

Name: Raffaele Degli Esposti
Date: 2025-10-20
Signature:

6- CLEARANCE APPROVAL

Name:
Date: 2025-10-20
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004334

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000818	1.4 Discipline	Electrical
1.2 Item	C-ELS-200N1-09-L2-01	Emergency Lighting JB / Emergency Lighting JB	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing tag wires bot side the cable. See attached photo.

Name: Giovanni Tangianu

Date: 2025-04-24

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-04-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed both side. See attached photo.

Name: Giovanni Tangianu

Date: 2025-05-13

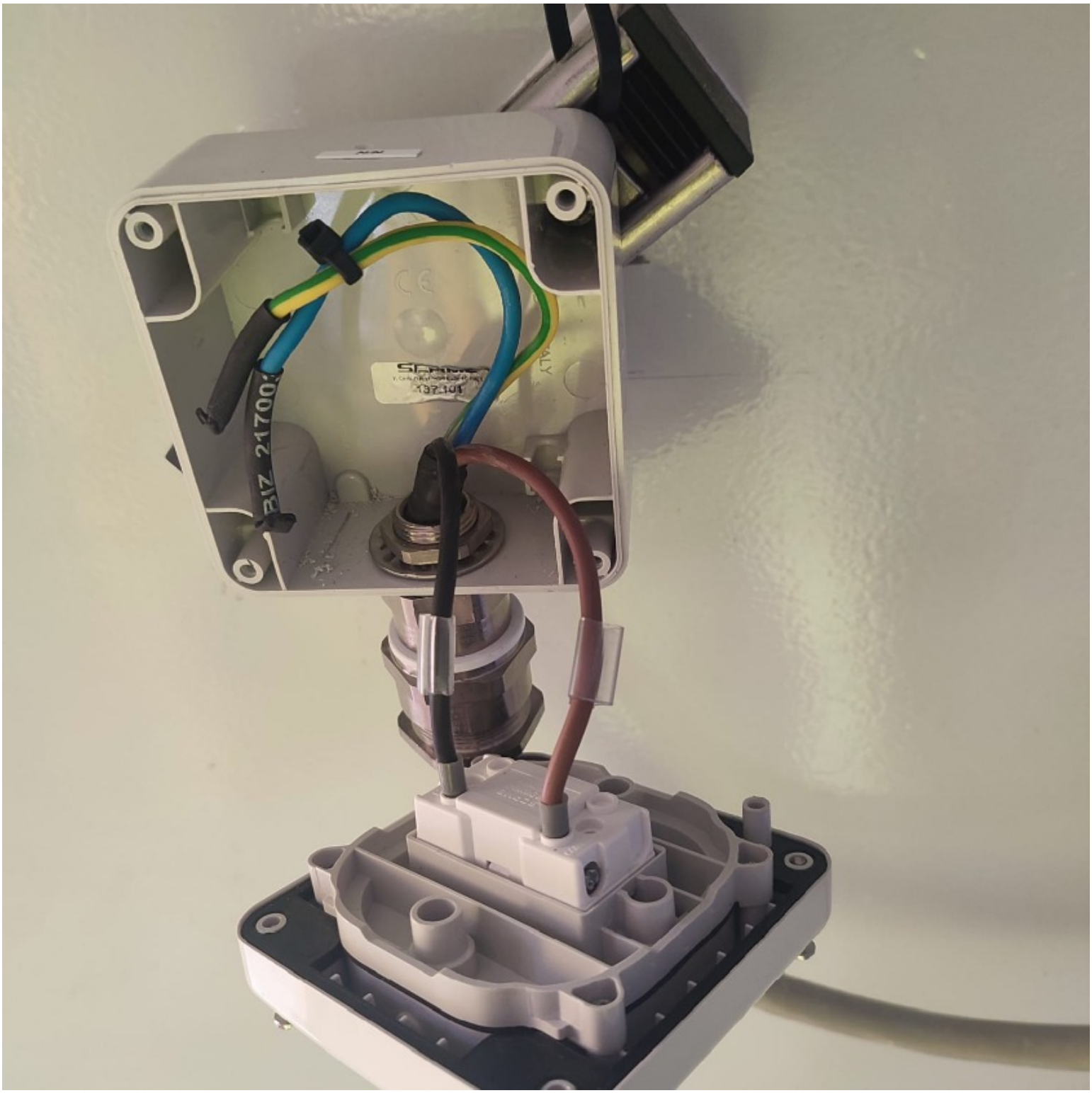
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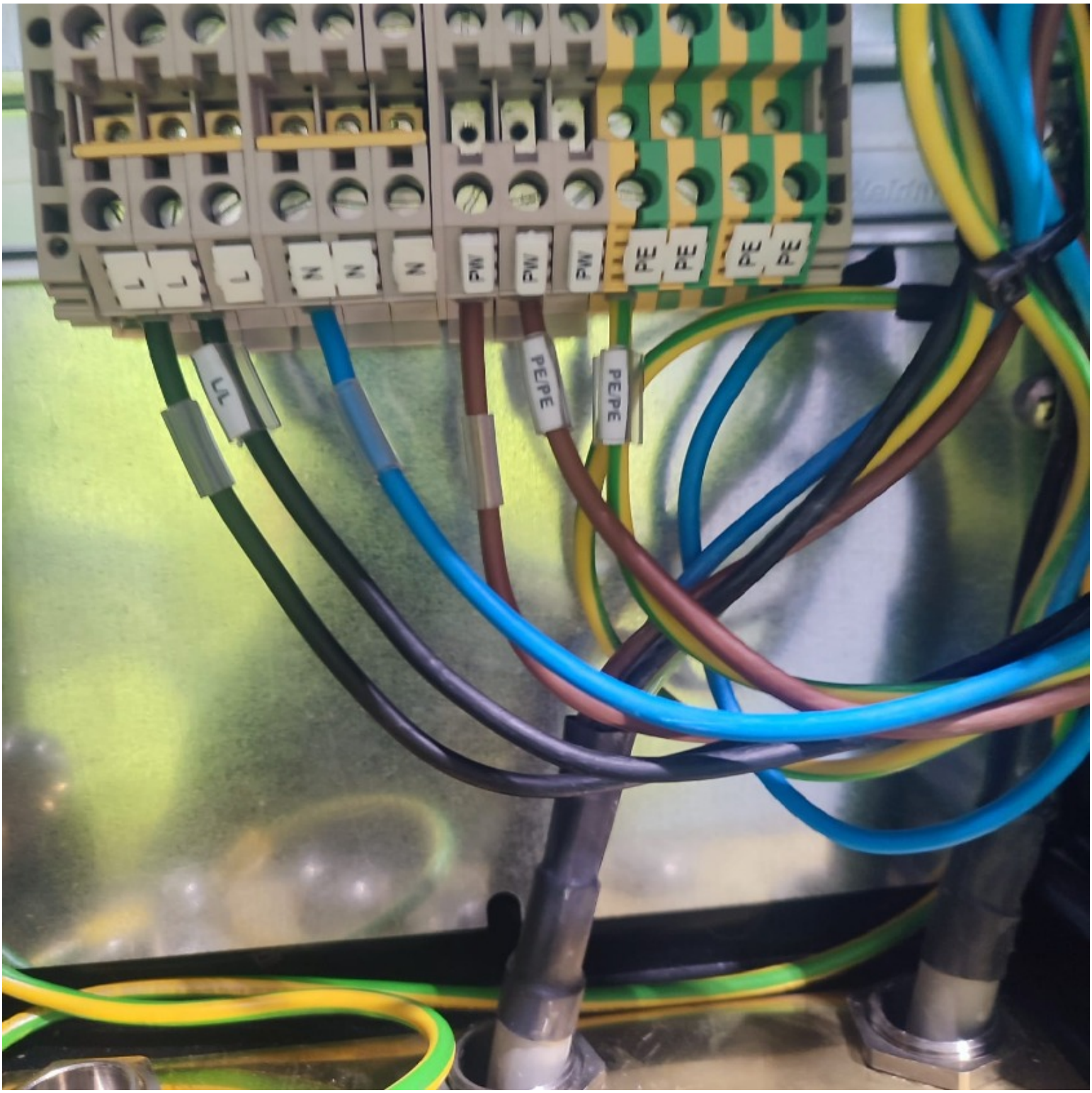
6- CLEARANCE APPROVAL

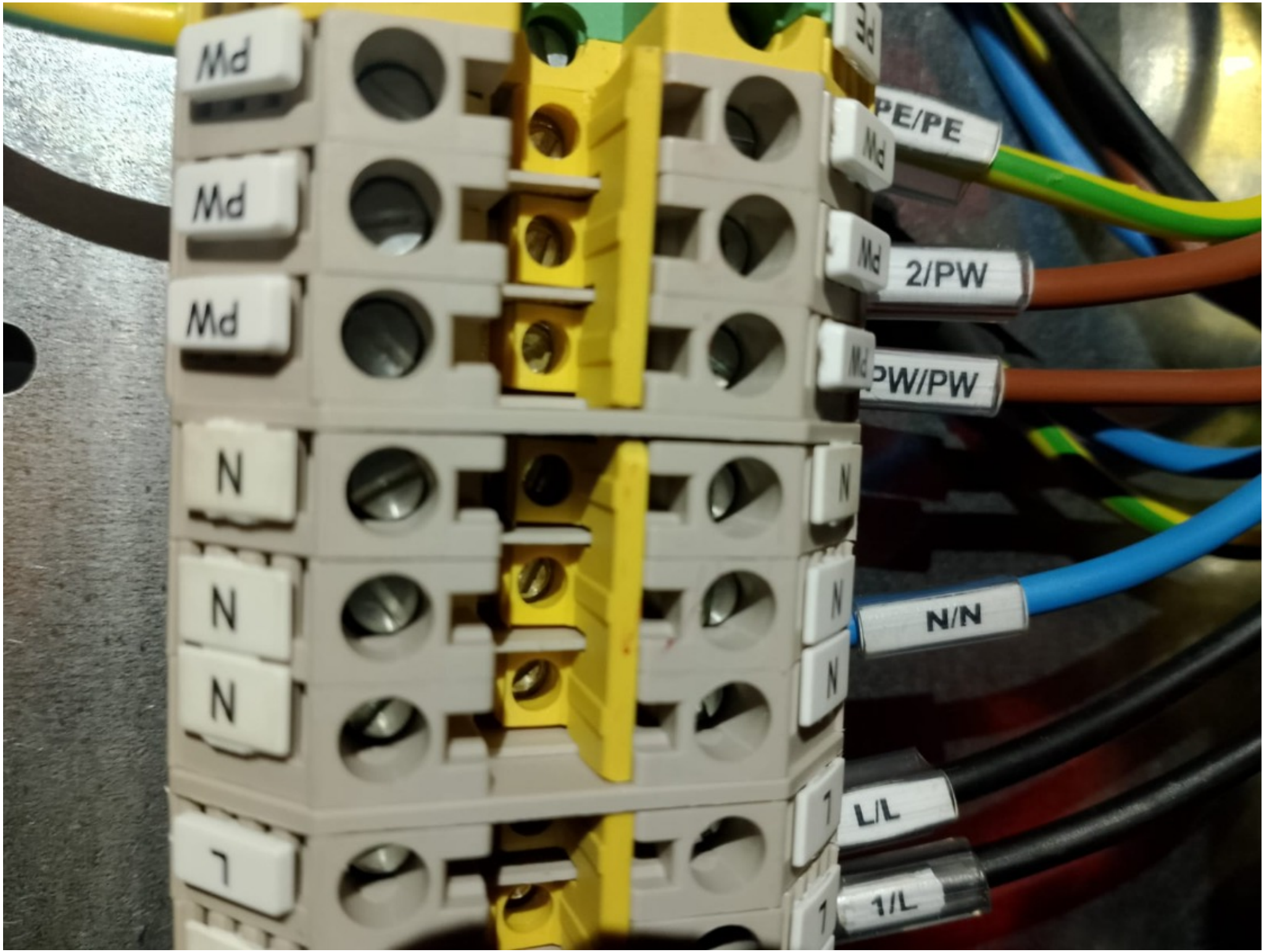
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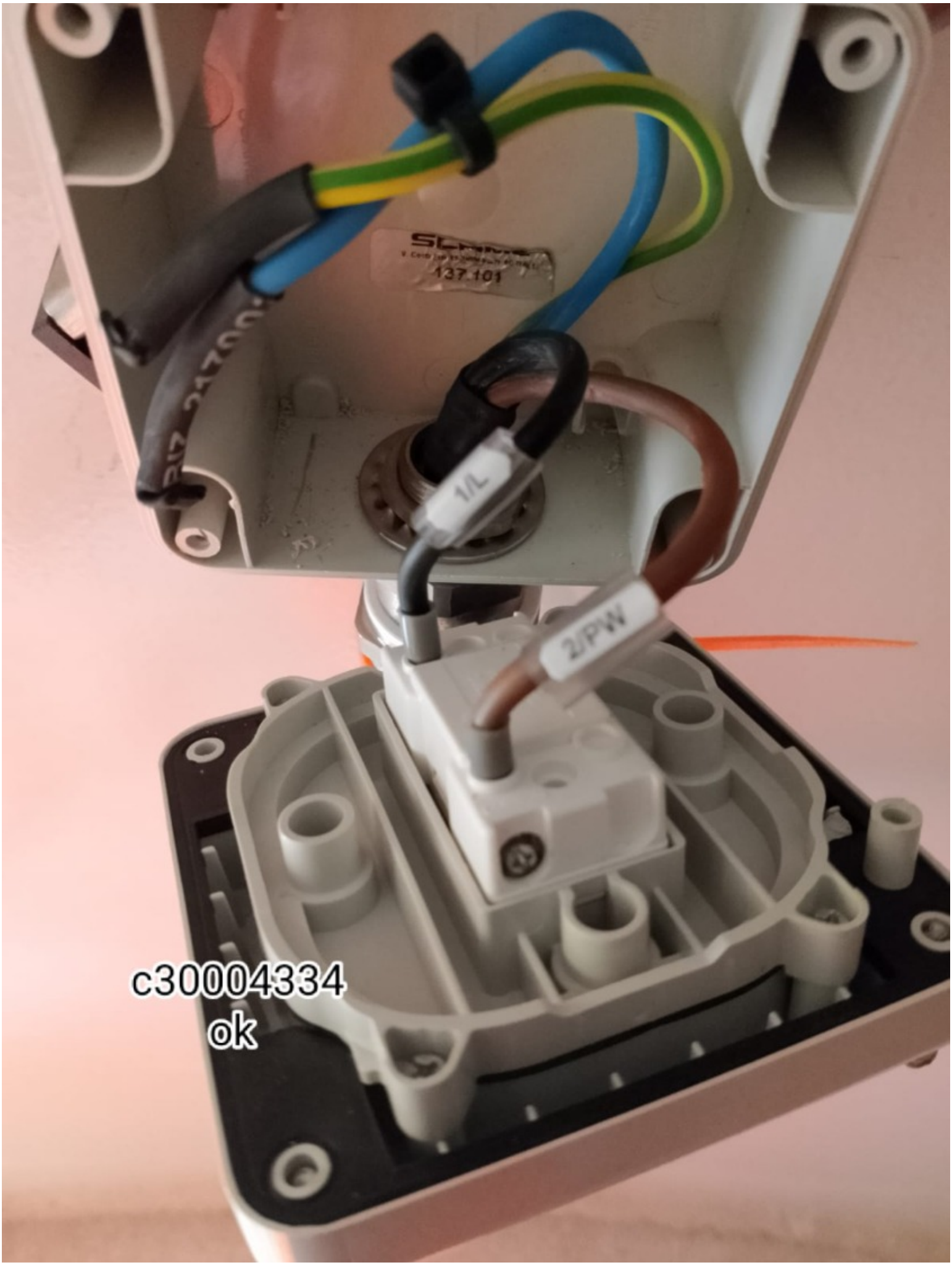
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ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004335

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003048	1.4 Discipline	Electrical
1.2 Item	ELS-200N1-09-L2-01	Local Switch	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

The trafolite tag is not installed. See attached photo.

Name: Giovanni Tangianu

Date: 2025-04-24

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-04-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

The trafolite tag has been installed.See attached photo.

Name: Giovanni Tangianu

Date: 2025-05-15

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:




ELS-200N1-09-L2-01

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004343

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001322	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-06	EMERGENCY LIGHT	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing trafolite tag.

Name: Giovanni Tangianu

Date: 2025-04-29

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-04-29
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-04-30

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-04-30

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004344

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001843	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-11	Emergency Lighting Fixture	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing trafolite tag.

Name: Giovanni Tangianu

Date: 2025-04-29

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-04-29
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-04-30

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-04-30

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004345

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001844	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-12	Emergency Lighting Fixture	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing trafolite tag.

Name: Giovanni Tangianu

Date: 2025-04-29

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-04-29
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-04-30

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-04-30

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004351

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001858	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-09	Emergency Lighting Fixture	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Not installed the protection plug on the unistrut support. See attached photo

Name: Giovanni Tangianu

Date: 2025-05-05

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

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

4 - PERFORMED ACTION

Name:

Date: 2025-05-09

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-05-09

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-05-09

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004352

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002076	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-14	Emergency Lighting Fixture	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Not installed the protection plug on the unistrut support. See attached photo-.

Name: Giovanni Tangianu

Date: 2025-05-05

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

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

4 - PERFORMED ACTION

Name:

Date: 2025-05-09

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-05-09

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-05-09

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004353

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001328	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-08	EMERGENCY LIGHT	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Not installed the protection plug on the unistrut support. See attached photo

Name: Giovanni Tangianu

Date: 2025-05-05

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

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

4 - PERFORMED ACTION

Name:

Date: 2025-05-09

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-05-09

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-05-09

Signature:


ELF-200N1-10-L3-08

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004354

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001859	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-10	Emergency Lighting Fixture	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Not installed the protection plug on the unistrut support.

Name: Giovanni Tangianu

Date: 2025-05-05

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

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

4 - PERFORMED ACTION

Name:

Date: 2025-05-09

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-05-09

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-05-09

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004355

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000833	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-10-L3-08		Stair Emergency Lighting JB / Stair Emergency Lighting Fixture
1.3 Subsystem	83-37		Emergency Lighting Stairs/Transition Piece

2 - OBSERVATION

THE WIRING AND TYPE OF CABLE MUST BE UPDATE.
(FIELD INSTALLED 4G2,5_E_Arm mm2 _black).

Name: Giovanni Tangianu
Date: 2025-05-05
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

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

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Document alligned

Name: Eleonora Carotenuto
Date: 2025-06-20
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004356

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001815	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-10-L3-09		Stair Emergency Lighting JB / Stair Emergency Lighting Fixture
1.3 Subsystem	83-37		Emergency Lighting Stairs/Transition Piece

2 - OBSERVATION

THE WIRING AND TYPE OF CABLE MUST BE UPDATE.
(FIELD INSTALLED 4G2,5_E_Arm mm2 _black).

Name: Giovanni Tangianu
Date: 2025-05-05
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

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

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Document alligned

Name: Eleonora Carotenuto
Date: 2025-06-20
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004357

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001817	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-10-L3-10		Stair Emergency Lighting JB / Stair Emergency Lighting Fixture
1.3 Subsystem	83-37		Emergency Lighting Stairs/Transition Piece

2 - OBSERVATION

THE WIRING AND TYPE OF CABLE MUST BE UPDATE.
(FIELD INSTALLED 4G2,5_E_Arm mm2 _black).

Name: Giovanni Tangianu
Date: 2025-05-05
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

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

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Document alligned

Name: Eleonora Carotenuto
Date: 2025-06-20
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004046

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000827	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-10-L3-05		Stair Emergency Lighting JB / Stair Emergency Lighting Fixture
1.3 Subsystem	83-37		Emergency Lighting Stairs/Transition Piece

2 - OBSERVATION

Missing cable tag SS , near the lamp

Name: Alessio Polo

Date: 2025-02-20

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	2025-02-20
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004047

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001323	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-05	EMERGENCY LIGHT	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing traffolyte tag side lamp

Name: Alessio Polo

Date: 2025-02-20

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	2025-02-20
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004048

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001323	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-05	EMERGENCY LIGHT	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing cores identification tag. . inside lamp . (see document 123A90-DDL-IN-DG-40016 sh.3)

Name: Alessio Polo
Date: 2025-02-20
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	2025-02-20
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo
Date: 2025-02-26
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: 83-37 & process: COMM & discipline : E

Electrical	83-37 Emergency Lighting Stairs/Transition Piece						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
DP-200N1-Q10	EMERGENCY LIGHT STAIRSSPAREDP-200N1-Q10	ONSHORE	C10002905	FP18	100	2025-06-03	RFO 1
		ONSHORE	C10004957	FP21	100	2025-06-05	RFO 1
		OFFSHORE	C10004974	FP18	0	-	-

ROSETTI MARINO | CROSSWIND

ITEM	Tag	DP-200N1-Q10	: EMERGENCY LIGHT STAIRSSPAREDP-200N1-Q10	Dwg	1723002197-EL-DG-00013		
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece	Module			
TASK	code	C10002905	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° EJB-200N1-10-L3-01

Luminaire quantity: 14 Luminaire type: LIFEX-ME-1260N-BB

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	Note
7	Switch off power supply of self contained battery back-up fittings / record time that lamps remains illuminated.		OK
8	Test automatic switching device (if any)		OK

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
FLUKE 3756	A1711003	7710/24	10/07/2025

Comments:

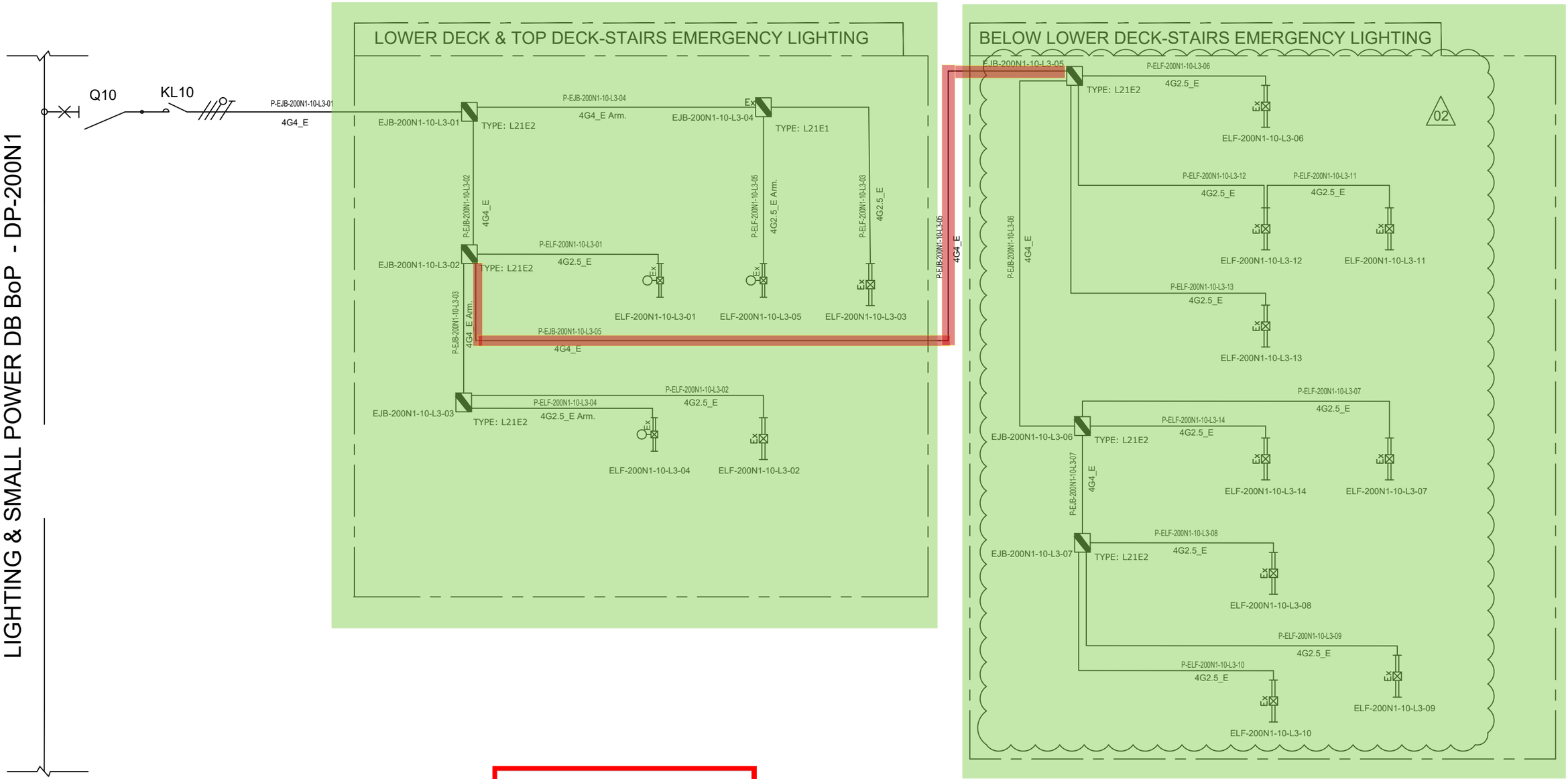
NOTE 3: The value is: >250 Mohm
NOTE 5: The value is: 21 mA 48.8 ms
NOTE 6: The value is: 4.2A

ref.: CQ-014 for the time of the autonomy emergency lighting.

The lamps installed on the Transition Piece will be retested off shore, when the P-EJB-200N1-10-L3-05 cable is permanently installed.

	Performed by	☐ WITNESS ☑ REVIEW	☐ WITNESS ☑ REVIEW
Company	RM COMM		
Name	Davide Zucconelli	Anthony Iveson	Gerry McCann
Date	2025-05-26	2025-05-26	2025-06-03
Signature	Digitaly signed by Davide Zucconelli 2025-05-26T11:31:47.259Z	Digitaly signed by Anthony Iveson 2025-05-26T11:53:12.495Z	Digitaly signed by Gerry McCann 2025-06-03T05:20:24.435Z

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

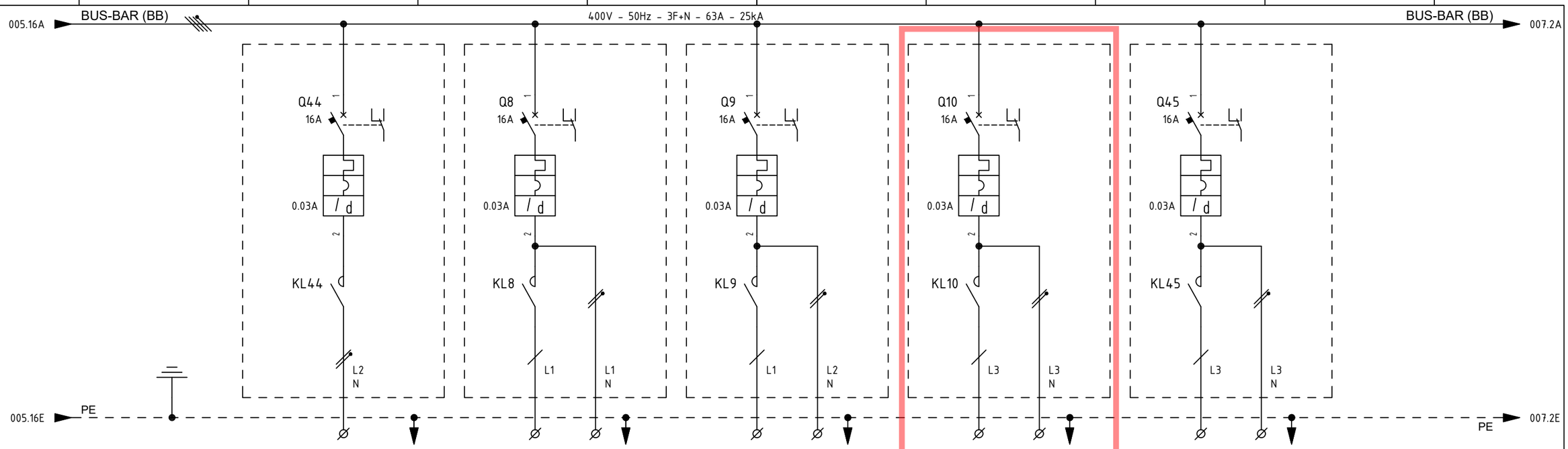
DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 007

REV. 02

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

F.to UNI A3: 420mmx297mm



ITEM			1	-	EJB-200N1-08-L1-01	EJB-200N1-09-L2-01	EJB-200N1-10-L3-01	-	
UTILITY			2	NORMAL LIGHTING - SPARE	EMERGENCY LIGHTING UPPER DECK	EMERGENCY LIGHTING LOWER DECK	EMERGENCY LIGHTING STAIRS	EMERGENCY LIGHTING - SPARE	
CUBICLE			3	+02	+02	+02	+02	+02	
RATED POWER | RATED CURRENT			4/5	1 KW | 4.58 A	1.5 KW | 6.86 A	1.5 KW | 6.86 A	0.30 KW | 1.37 A	1.5 KW | 6.86 A	
TYPICAL FUNCTIONAL			6	-	-	-	-	-	
CIRCUIT BREAKER (ABB)	TYPE		7	S302P-C16 + DDA202 AC-25/0.03	S302P-D16 + DDA202 AC-25/0.03	S302P-D16 + DDA202 AC-25/0.03	S302P-D16 + DDA202 AC-25/0.03	S302P-D16 + DDA202 AC-25/0.03	
	VERSION		8	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 D / Id=0.03A Class AC	In=16A - Curve D / Id=0.03A Class AC	In=16A - Curve D / Id=0.03A Class AC	In=16A - Curve D / Id=0.03A Class AC	
	Icu	KA	10	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	ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac	ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac	ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac	ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac	ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac	
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 / 4	SCREW / 4	SCREW / 4	SCREW / 4	SCREW / 4	
POWER CONDUCTOR		mm²	31	-	4G4_E	4G4_E	-	-	

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+

DWG n° : 231298/SD/13

Item n° : PF1002888/101

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

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 006

REV. 04

F.to UNI A3: 420mmx297mm

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

ITEM	Tag	DP-200N1-Q10	: EMERGENCY LIGHT STAIRSSPAREDP-200N1-Q10	Dwg	1723002197-EL-DG-00013		
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece	Module			
TASK	code	C10004957	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	COMM	Activity FTS	Discipline	Electrical	Form	FP21

Test Record Norm & Emerg Lighting LUX Measurements

The required illumination levels, measured at the working plane (0.8m) or 1m above the floor level in a horizontal plane, shall be as given in the table below except walkways and escape routes:
For walkways and escape routes calculation surfaces must be at the elevation 0.00m.
The illumination level indicated in the below table shall be used as a basis for the design of new installations unless higher illumination levels are required by national or local regulations in the country of installation.
The illumination levels apply when the luminaries are dirty: i.e. after taking account of the following fouling factors:

- Fouling factor of 0.80 for all plant areas and for outdoor non-plant areas;
- Fouling factor of 0.85 for indoor non-plant areas.

Location	Emean (LUX)	Notes
Control Rooms		
General, including front of panel	300-500	See note 1
Rear of panels	50	
Auxiliary rooms	150/300	See note 2
Outdoor near entrances	150	
Plant Areas		
Operating areas requiring operator intervention (pumps, compressors, valves, manifolds, loading arms)	150	
Local control and monitoring points (Indicating instruments, gauges and control devices)	75	
Level gauges (see-through) to be lit from behind by single tube fluorescent luminaries		
Access ways (walk ways, platforms, stairways, ladders, module roofs)	25	
Non-operational areas with limited attendance, e.g. tank farms without equipment requiring regular operator intervention	0.5	
Non-Plant Areas		
Switchrooms, including relay and auxiliary rooms	200	

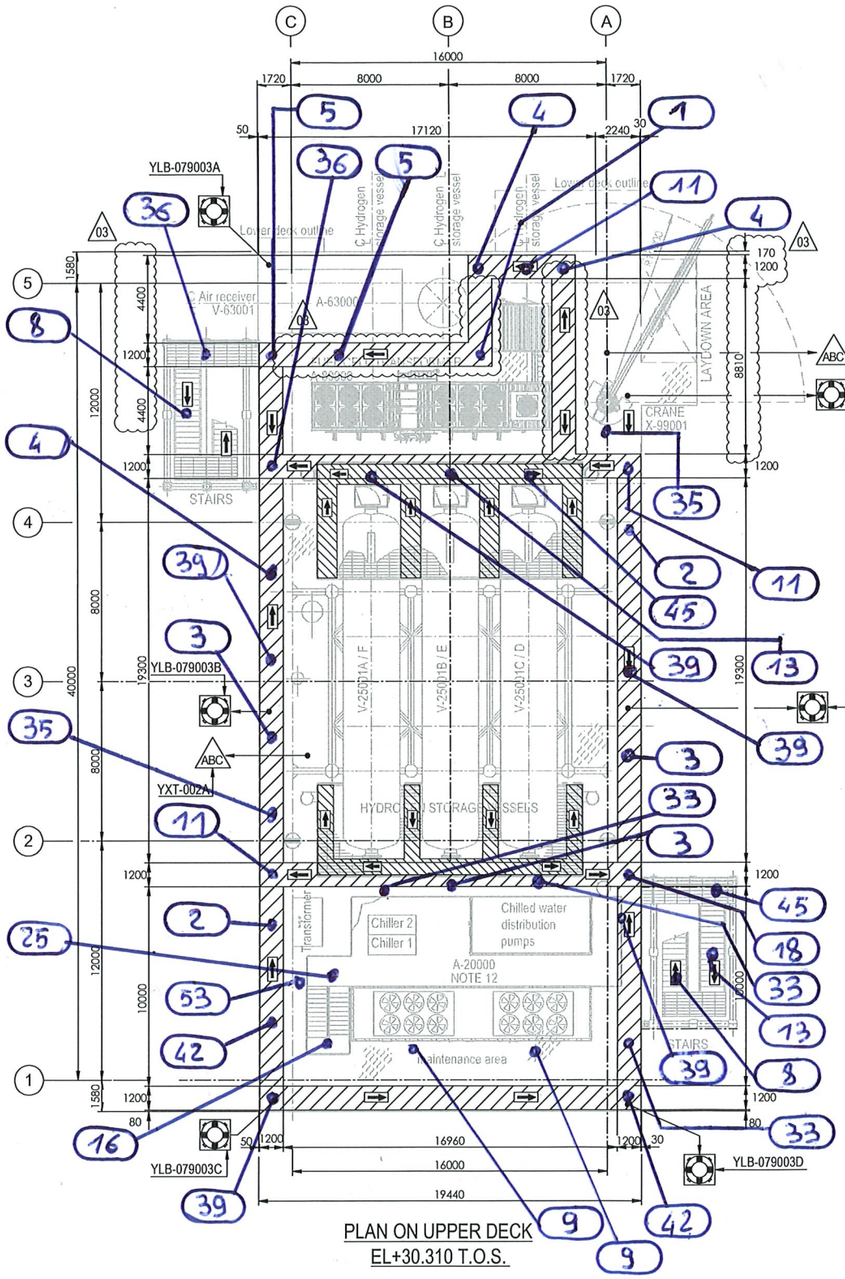
Notes:

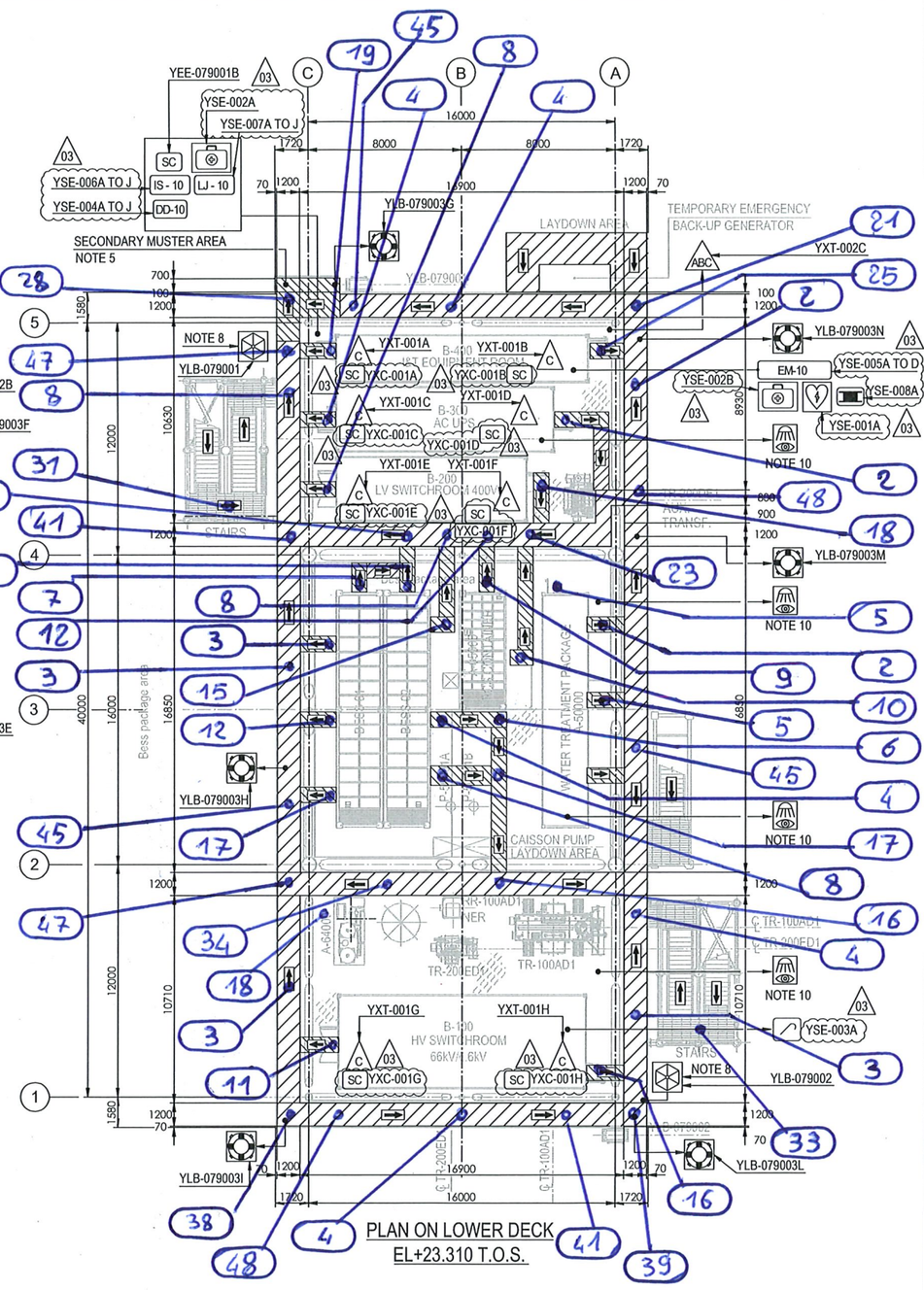
1. For control rooms, control of the illumination level should be possible either by switching off rows/groups of luminaires, or by use of electronic dimmers, or both.
   - 300 lux applies at night and 500 lux during the daytime.
2. For auxiliary rooms, the illumination level should be controlled by switching each lamp in a twin fitting from separately controlled circuits or by switching alternative fittings.
   - 150 lux applies for normal access and 300 lux for maintenance activities
3. For Embarkation area emergency lux level should be 5lux.
4. For other areas emergency lux level should be 11lux(avg) and 1 lux(min).

Comments: WITH REFERENCE TO NOTES 3. & 4. THE LUX MEASUREMENTS IN EMERGENCY SCENARIO FOR THE EMBARKATION AREA, WALKWAYS AND ESCAPE ROUTES HAVE PROVEN A POSITIVE RESULT. ALL MEASUREMENTS TAKEN AT 0.00m ELEVATION.

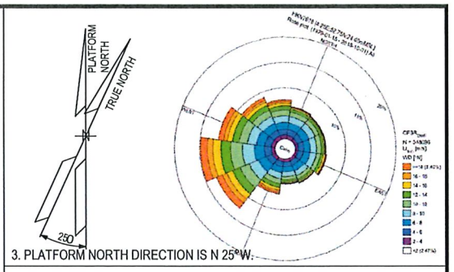
	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	CPY NOT PRESENT
Name	Mattia Girotti	Anthony Iveson	Witness waived
Date	2025-06-04	2025-06-04	2025-06-05
Signature	PROVERLIS Digitaly signed by Mattia Girotti 2025-06-04T11:39:45.557Z	PROVERLIS Digitaly signed by Anthony Iveson 2025-06-04T12:43:29.765Z	PROVERLIS Digitaly signed by Witness waived 2025-06-05T06:13:49.766Z

DRAWING NO. 123A90-DDL-SAF-DL-30025 REV. 03





SYMBOL	DESCRIPTION	QTY.	SYMBOL	DESCRIPTION	QTY.
	LIFE BUOY(FITTED WITH LIGHT, SMOKE SIGNAL & LIFELINE)	13	EM	ESCAPE MASK NOTE 13	4
	EYE WASH STATION (BOTTLES)	4	IS-XX	IMMERSION SUITS (INSIDE CABINET)	10
	RESUSCITATION UNIT	1	LJ-XX	LIFE JACKET (INSIDE CABINET)	20
	FIRST AID KIT	3		LIFERAFTS	2
	ELECTRIC SAFETY KIT	1	ABC 9 kg	POWDER PORTABLE EXTINGUISHER	3
C	PORTABLE EXTINGUISHER (CO2)	8	SC	SAFETY CABINET	2
DD	DESCENT DEVICE	20		EVACUATION STRETCHER (TO BE LOCATED IN ITER)	1



3. PLATFORM NORTH DIRECTION IS N 25°W.

NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PRIMARY ESCAPE ROUTES SHALL BE MINIMUM 1.2m WIDTH AND 2.3m HEIGHT.
4. SECONDARY ESCAPE ROUTES SHALL BE MINIMUM 0.8m WIDTH AND 2.3m HEIGHT.
5. SECONDARY MUSTER AREA SHALL BE SIZED IN ORDER TO PROVIDE SUFFICIENT SPACE FOR THE MAXIMUM POB OF 10 ON THE PLATFORM, CONSIDERING AS MINIMUM 0.8 m^2 PER PERSON.
6. THE EVACUATION PHILOSOPHY IS AS FOLLOW:
   - PRIMARY MEANS OF EVACUATION - VIA PRIMARY MUSTER AREA,LOCATED AT PLATFORM ON TRANSITION PIECE THEN TO CREW TRANSFER VESSEL.
   - SECONADRY MEANS OF EVACUATION - VIA SECONDARY MUSTER AREA, LOCATED AT THE NORTH-EAST CORNER OF THE LOWER DECK, THEN TO LIFERAFTS.
7. ESCAPE MASKS, ELECTRICAL SAFETY KIT, RESUSCITATION UNIT, IMMERSION SUITS, LIFE JACKET AND FIRST AID KID TO BE LOCATED IN WEATHERPROOF CABINETS, AT STRATEGIC POSITIONS.
8. EACH LIFERAFT TO BE SIZED FOR MAXIMUM POB OF 10 PERSONS.
9. 2 NOS. OF PORTABLE CO2 EXTINGUISHERS TO BE LOCATED IN EACH ROOM (ITER, HV & LV ROOMS AND UPS ROOM).
10. EYEWASH BOTTLES TO BE PORTABLE AND CARRIED BY OPERATORS ONLY DURING MAINTENACE PERIOD.
11. ALL PORTABLE EXTINGUISHERS LOCATED IN OPEN AREA WILL BE EQUIPPED WITH A WEATHERPROOF CABINET.
12. LIFE RAFT ACCESS WILL BE GUARANTED BY MEANS OF DESCENT DEVICE.
13. QUANTITY OF ESCAPE MASK WAS ASSESSED AGAINST THE NUMBER OF EXPECTED RESCUE TEAM (2/3 OPERATORS) THAT COULD NEED TO RESCUE SOMEONE REMAINED TRAPPED INSIDE ANY CONTAINER WHEN A FIRE EMERGENCY SCENARIO IS ONGOING.

LEGEND

PRIMARY ESCAPE ROUTE

SECONDARY ESCAPE ROUTE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	28/02/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	01/10/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/07/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	31/01/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

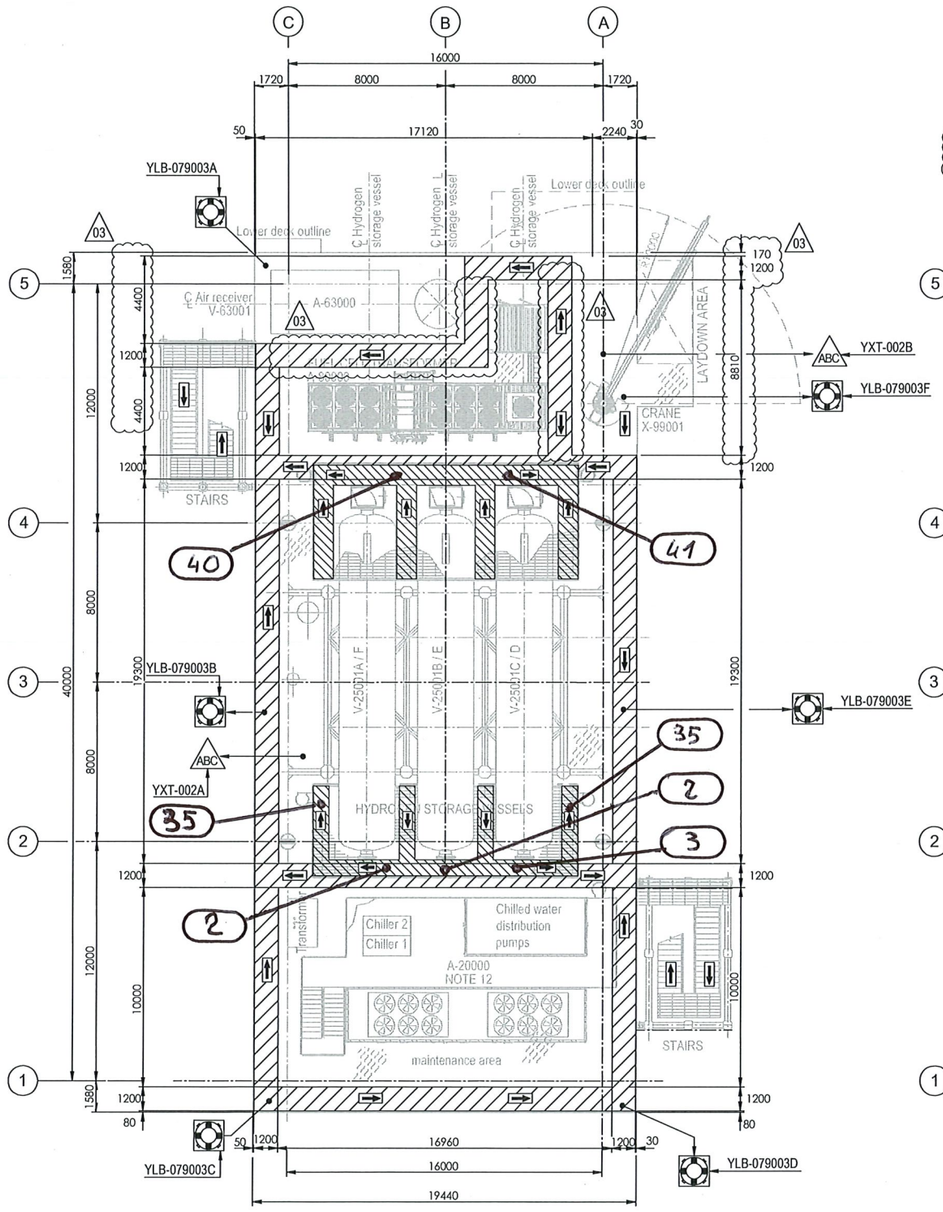
TITLE :
ESCAPE ROUTES, FIRE FIGHTING, LIFE SAVING EQUIPMENT AND SAFETY EQUIPMENT LAYOUTS DRAWING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 28/02/25

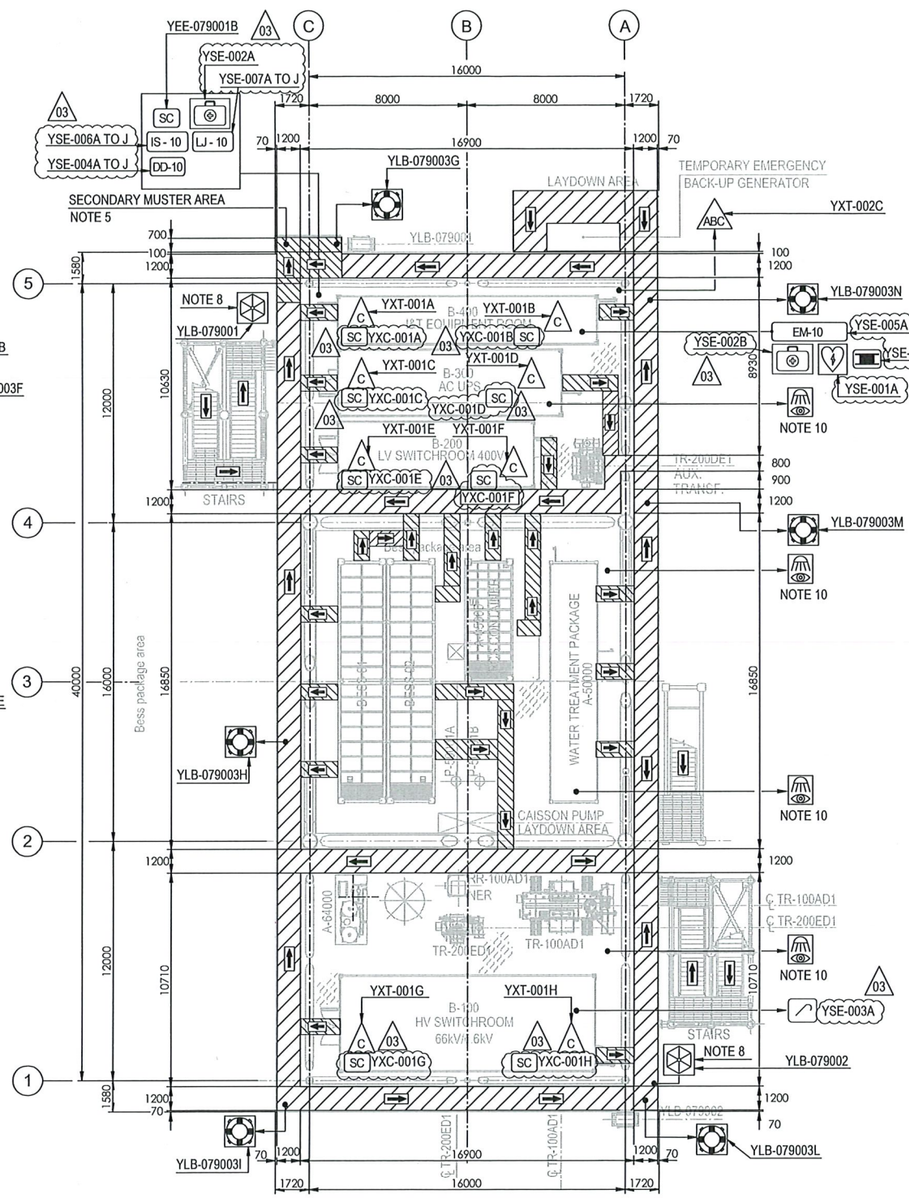
A1	DRAWING NO. 123A90-DDL-SAF-DL-30026	SHEET 001	REV. 03

File Name : 123A90-DDL-SAF-DL-30026 REV.03

DRAWING NO. 123A90-DDL-SAF-DL-30025 REV. 03

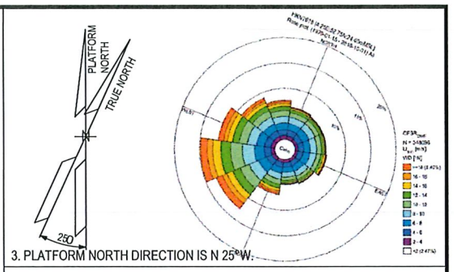


PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

SYMBOL	DESCRIPTION	QTY.	SYMBOL	DESCRIPTION	QTY.
	LIFE BUOY(FITTED WITH LIGHT, SMOKE SIGNAL & LIFELINE)	13	EM	ESCAPE MASK NOTE 13	4
	EYE WASH STATION (BOTTLES)	4	IS-XX	IMMERSION SUITS (INSIDE CABINET)	10
	RESUSCITATION UNIT	1	LJ-XX	LIFE JACKET (INSIDE CABINET)	20
	FIRST AID KIT	3		LIFERAFTS	2
	ELECTRIC SAFETY KIT	1	ABC 9kg	POWDER PORTABLE EXTINGUISHER	3
C	PORTABLE EXTINGUISHER (CO2)	8	SC	SAFETY CABINET	2
DD	DESCENT DEVICE	20		EVACUATION STRETCHER (TO BE LOCATED IN ITER)	1



3. PLATFORM NORTH DIRECTION IS N 25° W.

NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PRIMARY ESCAPE ROUTES SHALL BE MINIMUM 1.2m WIDTH AND 2.3m HEIGHT.
4. SECONDARY ESCAPE ROUTES SHALL BE MINIMUM 0.8m WIDTH AND 2.3m HEIGHT.
5. SECONDARY MUSTER AREA SHALL BE SIZED IN ORDER TO PROVIDE SUFFICIENT SPACE FOR THE MAXIMUM POB OF 10 ON THE PLATFORM, CONSIDERING AS MINIMUM 0.8 m^2 PER PERSON.
6. THE EVACUATION PHILOSOPHY IS AS FOLLOW:
   - PRIMARY MEANS OF EVACUATION - VIA PRIMARY MUSTER AREA,LOCATED AT PLATFORM ON TRANSITION PIECE THEN TO CREW TRANSFER VESSEL.
   - SECONADRY MEANS OF EVACUATION - VIA SECONDARY MUSTER AREA, LOCATED AT THE NORTH-EAST CORNER OF THE LOWER DECK, THEN TO LIFERAFTS.
7. ESCAPE MASKS, ELECTRICAL SAFETY KIT, RESUSCITATION UNIT, IMMERSION SUITS, LIFE JACKET AND FIRST AID KID TO BE LOCATED IN WEATHERPROOF CABINETS, AT STRATEGIC POSITIONS.
8. EACH LIFERAFT TO BE SIZED FOR MAXIMUM POB OF 10 PERSONS.
9. 2 NOS. OF PORTABLE CO2 EXTINGUISHERS TO BE LOCATED IN EACH ROOM (ITER, HV & LV ROOMS AND UPS ROOM).
10. EYEWASH BOTTLES TO BE PORTABLE AND CARRIED BY OPERATORS ONLY DURING MAINTENACE PERIOD.
11. ALL PORTABLE EXTINGUISHERS LOCATED IN OPEN AREA WILL BE EQUIPPED WITH A WEATHERPROOF CABINET.
12. LIFE RAFT ACCESS WILL BE GUARANTED BY MEANS OF DESCENT DEVICE.
13. QUANTITY OF ESCAPE MASK WAS ASSESSED AGAINST THE NUMBER OF EXPECTED RESCUE TEAM (2/3 OPERATORS) THAT COULD NEED TO RESCUE SOMEONE REMAINED TRAPPED INSIDE ANY CONTAINER WHEN A FIRE EMERGENCY SCENARIO IS ONGOING.

LEGEND

PRIMARY ESCAPE ROUTE

SECONDARY ESCAPE ROUTE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	28/02/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	01/10/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/07/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	31/01/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

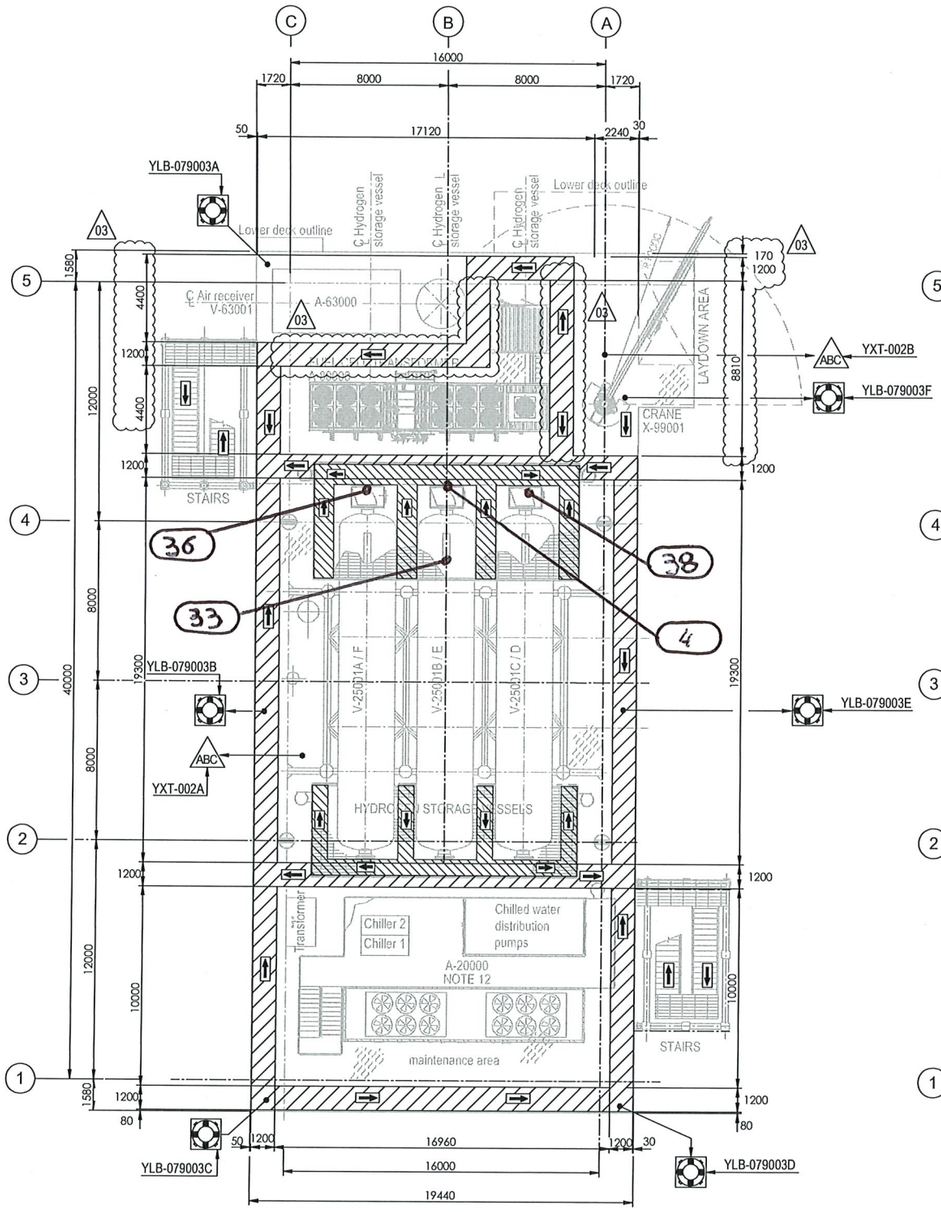
TITLE :
ESCAPE ROUTES, FIRE FIGHTING, LIFE SAVING EQUIPMENT AND SAFETY EQUIPMENT LAYOUTS DRAWING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 28/02/25

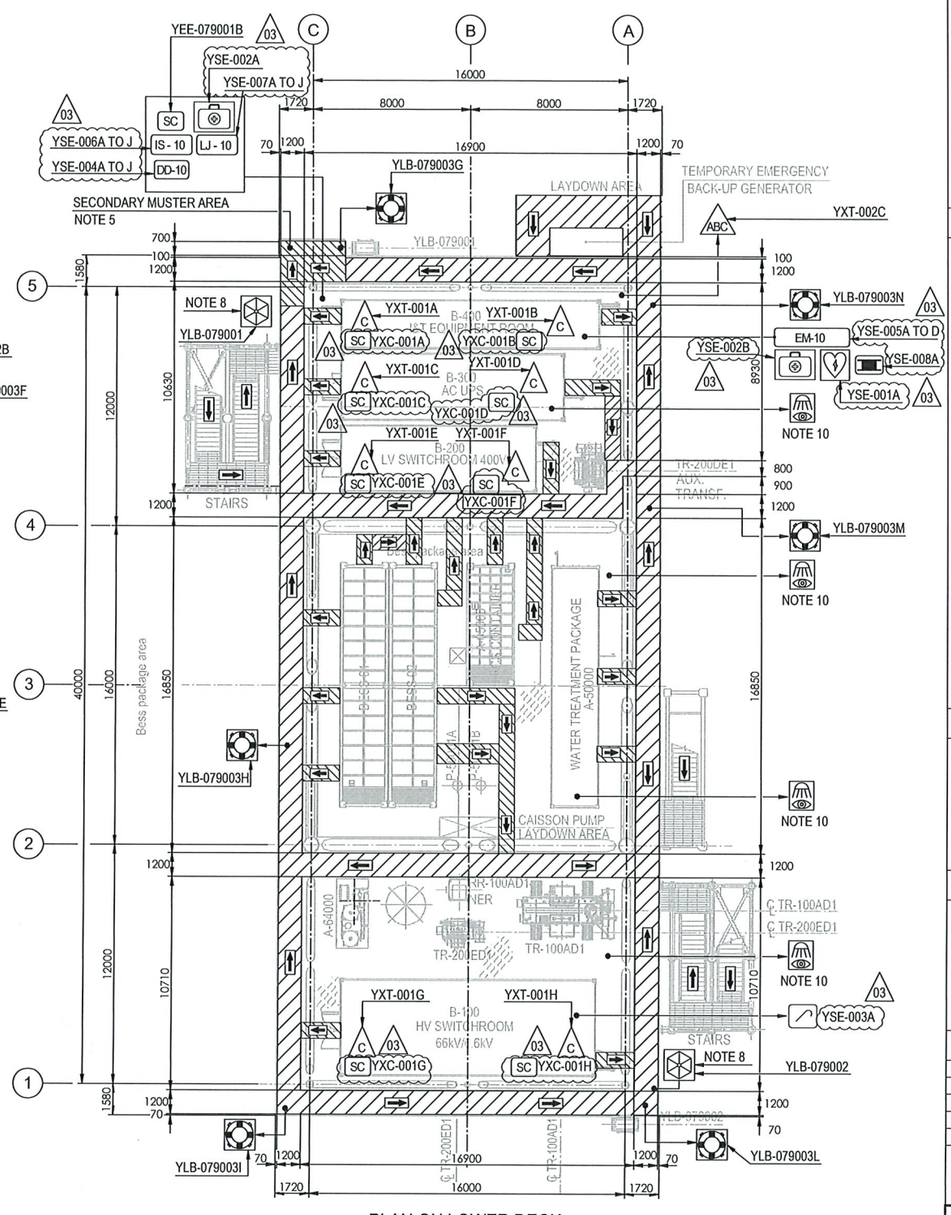
A1	DRAWING NO. 123A90-DDL-SAF-DL-30026	SHEET 001	REV. 03

File Name : 123A90-DDL-SAF-DL-30026 REV.03

DRAWING NO. 123A90-DDL-SAF-DL-30025 REV. 03

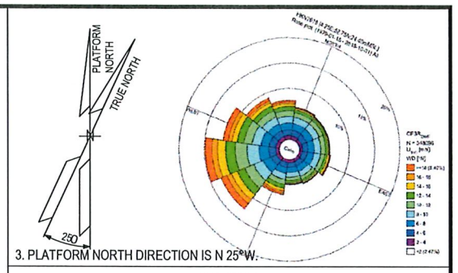


PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

SYMBOL	DESCRIPTION	QTY.	SYMBOL	DESCRIPTION	QTY.
	LIFE BUOY(FITTED WITH LIGHT, SMOKE SIGNAL & LIFELINE)	13	EM	ESCAPE MASK NOTE 13	4
	EYE WASH STATION (BOTTLES)	4	IS-XX	IMMERSION SUITS (INSIDE CABINET)	10
	RESUSCITATION UNIT	1	LJ-XX	LIFE JACKET (INSIDE CABINET)	20
	FIRST AID KIT	3		LIFERAFTS	2
	ELECTRIC SAFETY KIT	1	ABC 9 kg	POWDER PORTABLE EXTINGUISHER	3
C	PORTABLE EXTINGUISHER (CO2)	8	SC	SAFETY CABINET	2
DD	DESCENT DEVICE	20		EVACUATION STRETCHER (TO BE LOCATED IN ITER)	1



3. PLATFORM NORTH DIRECTION IS N 25°W.

NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PRIMARY ESCAPE ROUTES SHALL BE MINIMUM 1.2m WIDTH AND 2.3m HEIGHT.
4. SECONDARY ESCAPE ROUTES SHALL BE MINIMUM 0.8m WIDTH AND 2.3m HEIGHT.
5. SECONDARY MUSTER AREA SHALL BE SIZED IN ORDER TO PROVIDE SUFFICIENT SPACE FOR THE MAXIMUM POB OF 10 ON THE PLATFORM, CONSIDERING AS MINIMUM 0.8 m^2 PER PERSON.
6. THE EVACUATION PHILOSOPHY IS AS FOLLOW:
   - PRIMARY MEANS OF EVACUATION - VIA PRIMARY MUSTER AREA,LOCATED AT PLATFORM ON TRANSITION PIECE THEN TO CREW TRANSFER VESSEL.
   - SECONDARY MEANS OF EVACUATION - VIA SECONDARY MUSTER AREA, LOCATED AT THE NORTH-EAST CORNER OF THE LOWER DECK, THEN TO LIFERAFTS.
7. ESCAPE MASKS, ELECTRICAL SAFETY KIT, RESUSCITATION UNIT, IMMERSION SUITS, LIFE JACKET AND FIRST AID KID TO BE LOCATED IN WEATHERPROOF CABINETS, AT STRATEGIC POSITIONS.
8. EACH LIFERAFT TO BE SIZED FOR MAXIMUM POB OF 10 PERSONS.
9. 2 NOS. OF PORTABLE CO2 EXTINGUISHERS TO BE LOCATED IN EACH ROOM (ITER, HV & LV ROOMS AND UPS ROOM).
10. EYEWASH BOTTLES TO BE PORTABLE AND CARRIED BY OPERATORS ONLY DURING MAINTENACE PERIOD.
11. ALL PORTABLE EXTINGUISHERS LOCATED IN OPEN AREA WILL BE EQUIPPED WITH A WEATHERPROOF CABINET.
12. LIFE RAFT ACCESS WILL BE GUARANTED BY MEANS OF DESCENT DEVICE.
13. QUANTITY OF ESCAPE MASK WAS ASSESSED AGAINST THE NUMBER OF EXPECTED RESCUE TEAM (2/3 OPERATORS) THAT COULD NEED TO RESCUE SOMEONE REMAINED TRAPPED INSIDE ANY CONTAINER WHEN A FIRE EMERGENCY SCENARIO IS ONGOING.

LEGEND

PRIMARY ESCAPE ROUTE

SECONDARY ESCAPE ROUTE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	28/02/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	01/10/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/07/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	31/01/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

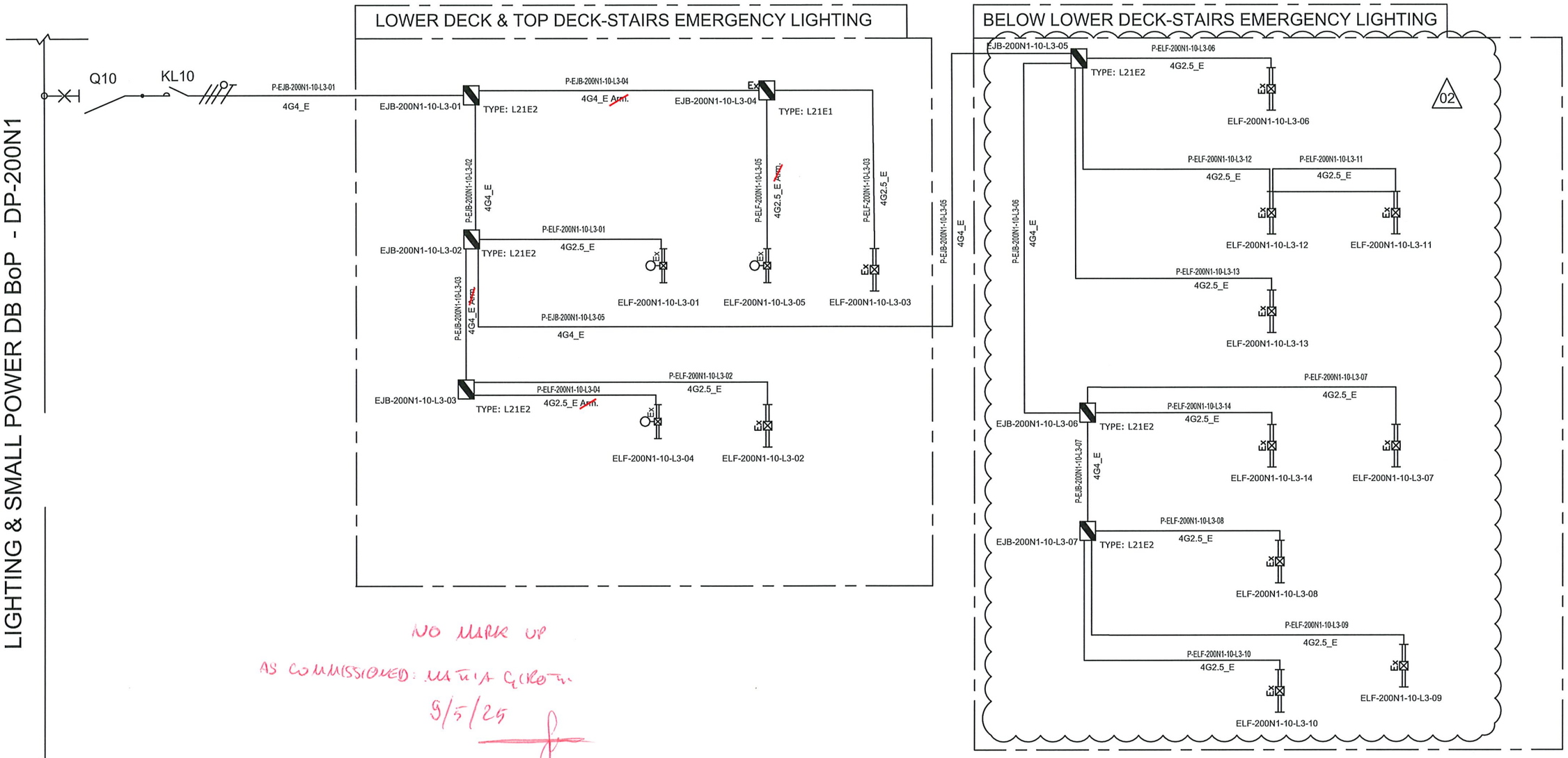
TITLE :
ESCAPE ROUTES, FIRE FIGHTING, LIFE SAVING EQUIPMENT AND SAFETY EQUIPMENT LAYOUTS DRAWING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 28/02/25
A1	DRAWING NO. 123A90-DDL-SAF-DL-30026	SHEET 001	REV. 03

File Name : 123A90-DDL-SAF-DL-30026 REV.03

Section 4.2 Electrical
“As-Commissioned” interconnection diagrams

LIGHTING & SMALL POWER DB BoP - DP-200N1



NO MARK UP

AS COMMISSIONED: MATIA GIROTTI

9/5/25

NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	007	02

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

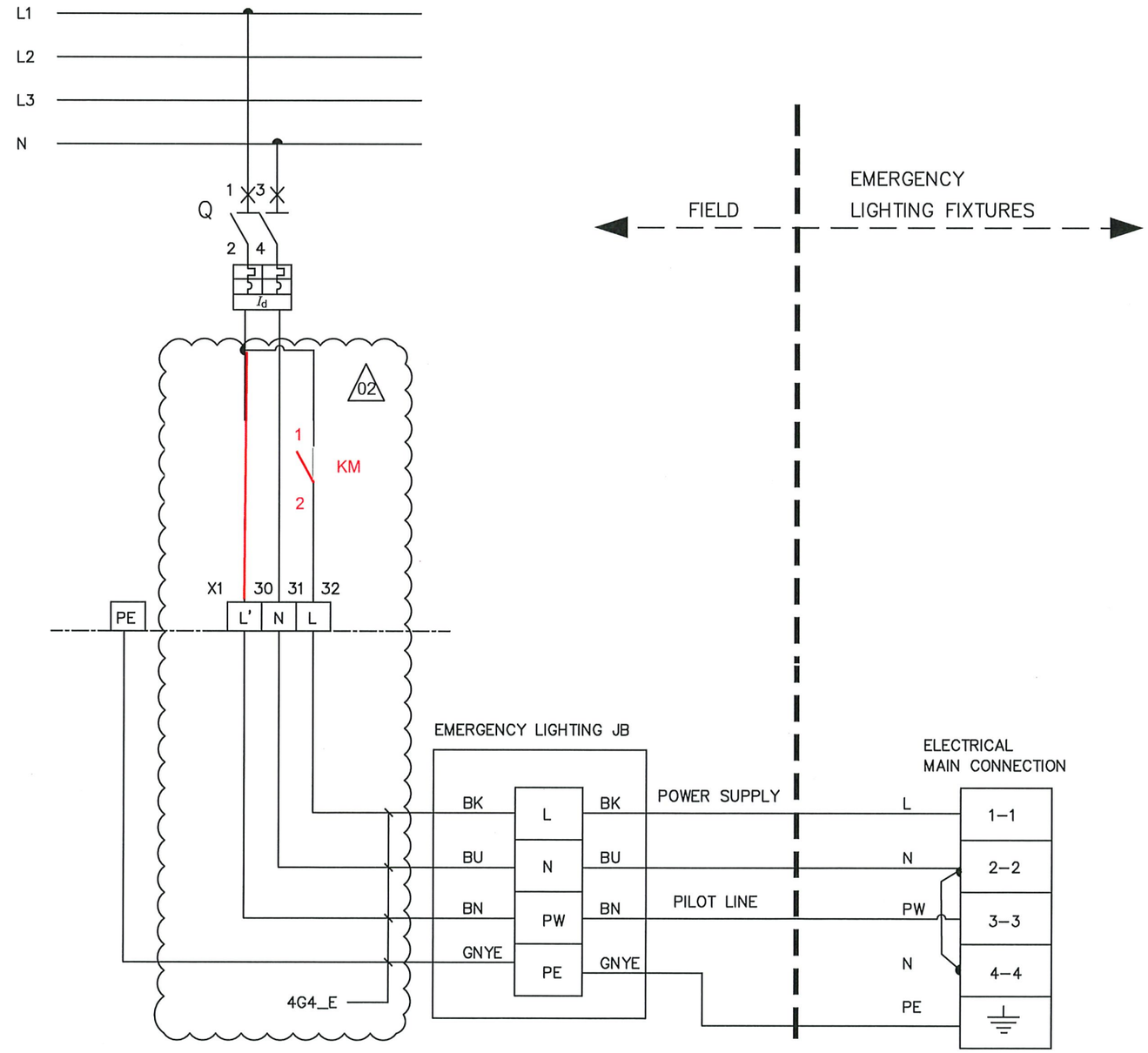
F.to UNI A3: 420mmx297mm

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY
N – NEUTRAL
PW – PILOT LINE
PE – PROTECTIVE EARTH
BN – BROWN (L')
BK – BLACK (L)
BU – BLUE (N)
GNYE – GREEN/YELLOW (PE)

02

NO MARK UP
AS COMMISSIONED: MATTIA GIROTTI
10/4/25

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

REV.:	DATE:	SIGNATURE:
2_I	26/03/25	E.Fabbri

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

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

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

REV. 02

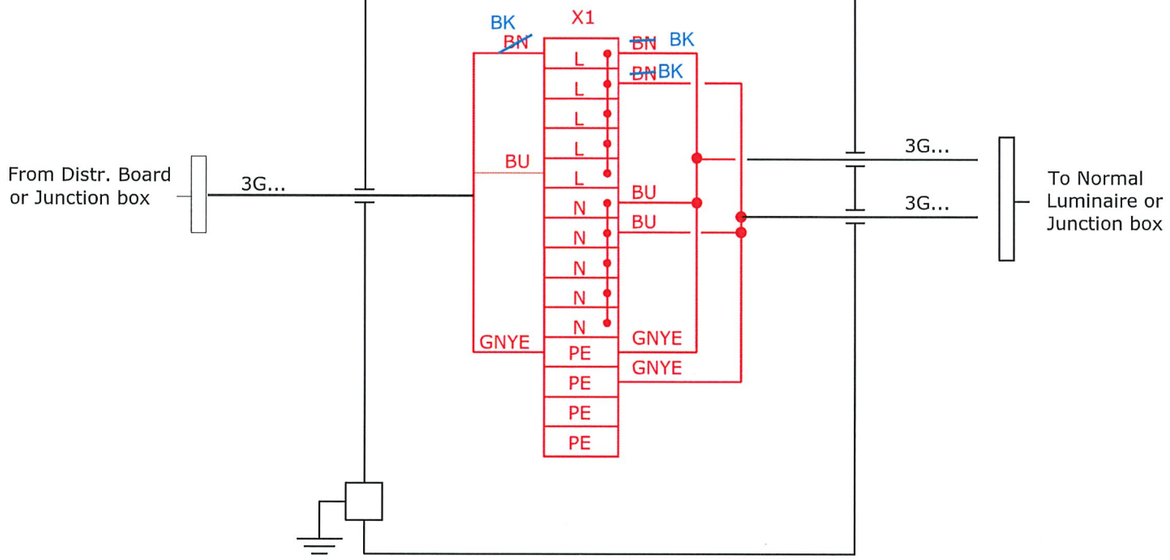
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

TAG : Typical



NO MARK UP

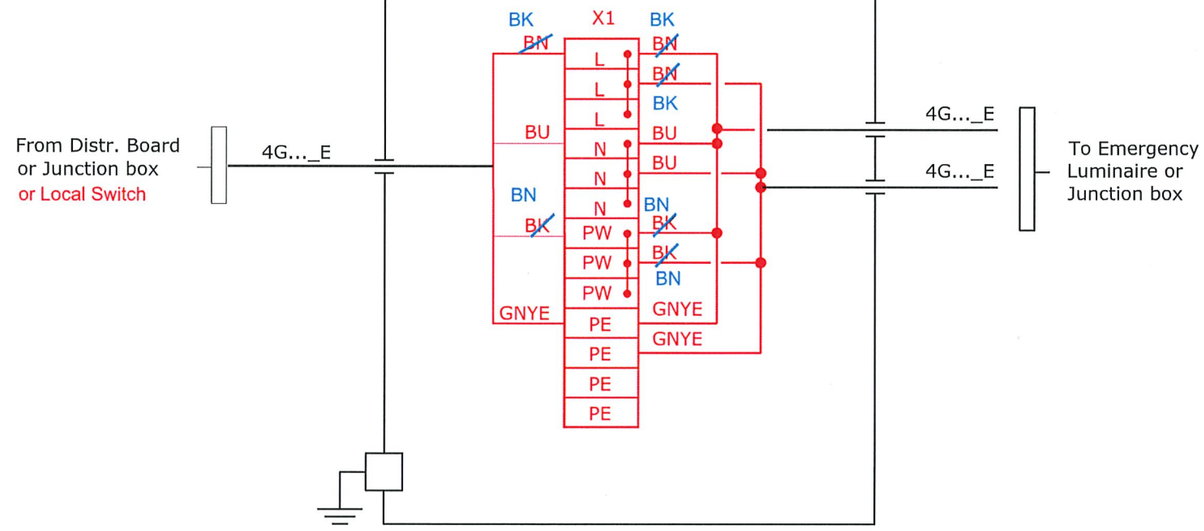
AS COMMISSIONED: MARIA GIRETTI

10/4/25

TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_I	26/03/25	E.Fabbri

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)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

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

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	123A90-DDL-EL-DG-20125	016	01

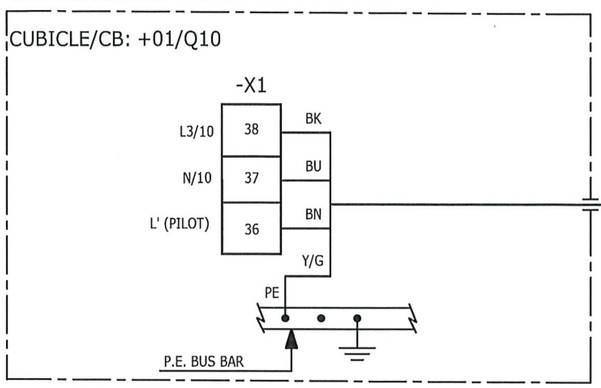
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F.to UNI A3: 420mmx297mm

FROM	TO

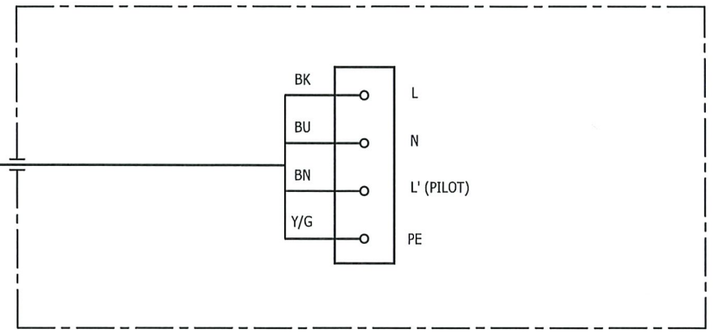
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1
CUBICLE/CB: +01/Q10

NO MARK UP
AS COMMISSIONED: MATTIA GIROTTI
9/5/25



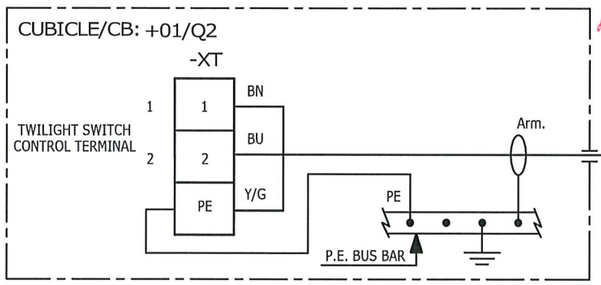
P-EJB-200N1-10-L3-01
4G4_E mm²

DESCRIPTION: EMERGENCY LIGHTING STAIRS
TAG NUMBER: EJB-200N1-10-L3-01



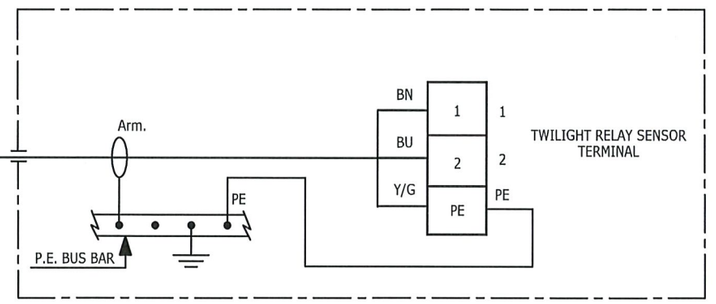
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1
CUBICLE/CB: +01/Q2

NO MARK UP
AS COMMISSIONED: MATTIA GIROTTI
9/5/25

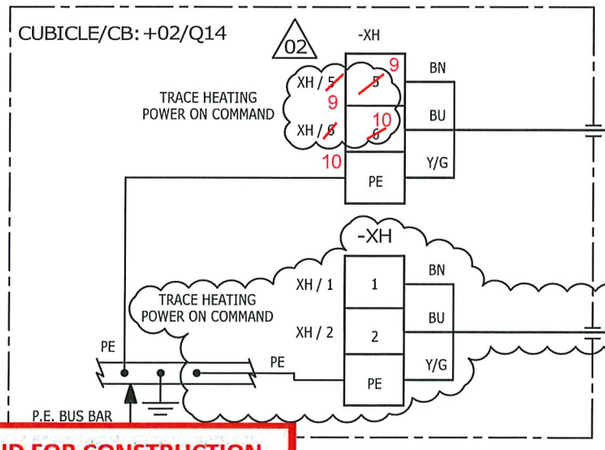


P-EPH-200N1-01
3G4 mm²

DESCRIPTION: TWILIGHT RELAY SENSOR
TAG NUMBER: EPH-200N1-01



DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1
CUBICLE/CB: +02/Q14

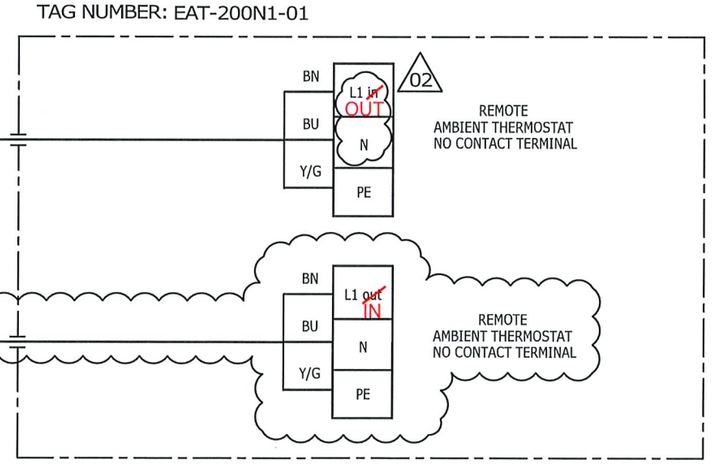


P-EAT-200N1-01
3G2.5 mm²

02

P-EAT-200N1-02
3G2.5 mm²

DESCRIPTION: REMOTE AMBIENT THERMOSTAT
TAG NUMBER: EAT-200N1-01



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 047 | REV. 02

F.to UNI A3: 420mmx297mm

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

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

ATTACHMENT 1

ROSETTI MARINO

SPARE PARTS LIST

CROSSWIND

Document Title	**SPARE PART INDEX REGISTER**
The document relates to	**HOLLANDSE KUST NOORD WIND PARK Project - Base Load Power Hub (BLPH)**
Contract	**CW-I-WP4-2023-05**

Project ID	Doc. n°	Rev. (Accepted for Construction (AFC))	Rev. Date	Status	Class
123A90	**1724001290-COM-LIS-00009**		**02**	**IFR**	**2**

The equipment consists of the following units/components

1	Tag no.	-	-				
2	Tag description	Led Linear Lighting Fixtures	Led Linear Lighting Fixtures				
3	Manufacturer model/type no.	LIFEX-ME-0645-BB	LIFEX-ME-1260N-BB				
4	Manufacturer serial no.	24/86772	24/86773				
5	No. of units	57	78				
6	Quantity of parts FITTED / INSTALLED per unit/component	1	1				

Supplier: Cortem Spa — PO Number: 1724001290 — PO description: Lighting Fixture — Contact name: PM Selena Ziani

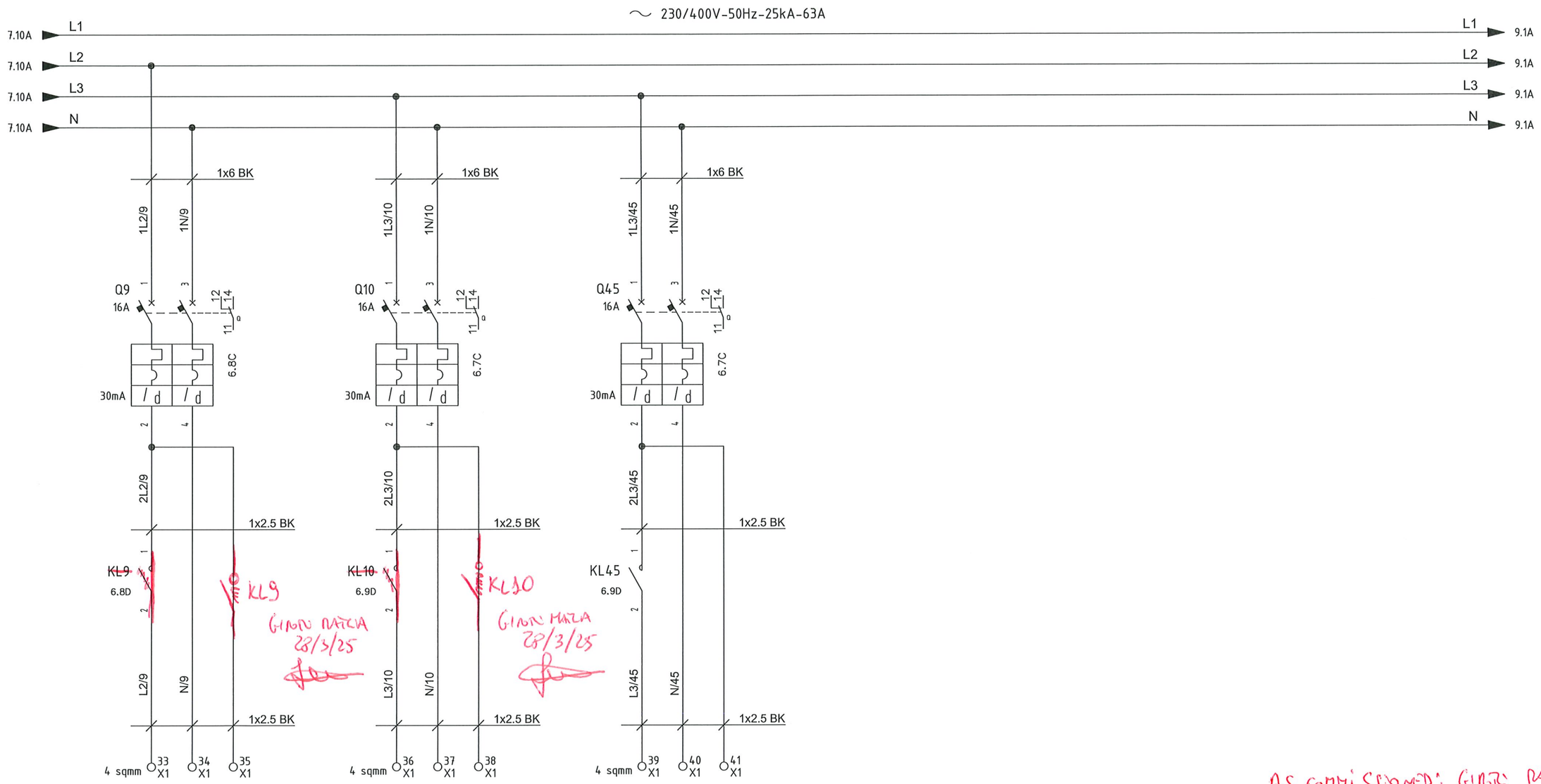
Address: Via Aquileia, 10 - 34070 Villesse (Go) — Supplier telephone no: +39 0481 964911 — Contact mobile no:

E-mail: pmd@cortemgroup.com — WEBSITE www.cortemgroup.com

General Information:

			MATERIALS DATA																		Commissioning spares	2 Years spares	
Item Number	Total number of identical spares installed	Description of recommended spare parts	Parts/drawing ref.			Material	Certicate Type (if applicable)	Certicate Reference (if applicable)	Shelf life (years)	Weight (net)	Weight (gross)	Volume	HS Code	ECCN Code	% US Content	Country of origin	Supplier part no.	Manufacturer part no.	Manufacturername	Quantity ordered	Quantity ordered	Remarks
			Project Datasheet no.	Project Detail dwg. no.	Item ref.																	
7		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1		Electronic power unit for LifEx-ME-0645	1724001290-EL-DS-00004	1724001290-EL-DA-00003	1	PC (housing material)	ATEX	CML 21 ATEX 51156U	5	0,5kg		440000mm^3	94054099 90			ITALY	EBM-100L/350	EBM-100L/350	Cortem S.p.a	2	4	
2		Electronic power unit for LifEx-ME-1260N	1724001290-EL-DS-00004	1724001290-EL-DA-00003	2	PC (housing material)	ATEX	CML 21 ATEX 51156U	5	0,5kg		440000mm^3	94054099 90			ITALY	EBM-100L/270	EBM-100L/270	Cortem S.p.a	4	8	
3		Battery pack for LifEx-ME-1260N	1724001290-EL-DS-00004	1724001290-EL-DA-00003	2	NiMH	ATEX	N/A	5	0,3kg		80000mm^3	94054099 90			ITALY/CHINA	G-1097/F	G-1097/F	Cortem S.p.a	4	8	
4																						
5																						
6																						
7																						
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45																						

Section 7.4 Vendor Data / Operations / Maintenance Manuals References



EJB-200N1-09-L2-01
Emergency Lighting Lower Deck - Circuit No. 1
(4G4 sqmm _E)

EJB-200N1-10-L3-01
Emergency Lighting stairs
(4G4 sqmm _E)

Spare
Emergency Lighting - SPARE

KL9 GIANLUCA MARCIA 28/3/25

KL10 GIANLUCA MARCIA 28/3/25

AS COMMISSIONED: GIANLUCA MARCIA 28/3/25

VALID FOR CONSTRUCTION
VENDOR DOCUMENT - FDL DWG:
123A90-FDL-1724002197-EL-DG-00033
REV.: 3_A | DATE: 18/03/25 | SIGNATURE: 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 8 | 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

Commissioning Query Form

CROSSWIND
ROSETTI MARINO

		QUERY NUMBER	CQ-014			
SITE ORIGINATOR TO COMPLETE		**ORIGINATING LOCATION REF. NO**				
		DISCIPLINE:	*ELECTRICAL*	LOCATION:	*ALL LOCATIONS*	
		WORKPACK REF:	*REF.: ITR-B's Emergency Lighting (DP-200N1-Q8 / DP-200N1/Q9 / DP-200N1-Q10)*			
		SYSTEM:	*83-00*	SUB SYSTEM:	*83-35 / 83-36 / 83-37*	
		ORIGINATOR SIGNATURE:	*Girotti Mattia*		*19/3/2025*	
		DESCRIPTION OF QUERY				
		Autonomy of emergency lighting fittings have been tested and measued at 165/175 minutes, slightly short of 180 minutes design value.				
		LIST OF DOCUMENTS ATTACHED (INCLUDE NAME / DESCRIPTION / REVISION / DATE OR N/A)				
		DATASHEET: Ref. 1724001290-IN-DS-00004 and Manual of lighting attached				
		PROPOSED SOLUTION				
		Request acceptance of measured test values.				
		APPROVED FOR ISSUE BY SITE AUTHORISED SIGNATORY: (Y or N?)	*Y*	*Iveson Anthony*		*19/3/2025*
ENGINEERING TO COMPLETE		RECEIVED BY: (Y or N?)		G McCann *Print:*	*Sign:*	*Date:* 31/3/25
		ENGINEERING TECHNICAL RESPONSE				
		CWD Acknowledge the time achieved during test as tolerable as this is within +/-10%. However, RM should complete a review to investigate why these components are not performing as per specification and submit a deviation for company acceptance for longer term use of component in design.				
		LIST OF DOCUMENTS ATTACHED (INCLUDE NAME / DESCRIPTION / REVISION / DATE OR N/A)				
		REQUIRES CLARIFICATIONS (Y or N?)		IF "Y", USE THE ABOVE "RESPONSE SPACE" TO DETAIL CLARIFICATION.		
		RESPONSE PREPARED BY:		*Print:*	*Sign:*	*Date:*
		APPROVED DISCIPLINE LEAD (Y or N?)		*Print:*	*Sign:*	*Date:*
		HAVE ALL RELEVANT DISCIPLINES IMPACTED BEEN INFORMED? (Y or N) PROJECT ENG TO CONFIRM.		*Print:*	*Sign:*	*Date:*
		PAC TO BE ISSUED (Y or N?)		NCR TO BE ISSUED (Y or N?)		ATRAC No.:
		APPROVED BY ASSIGNMENT ENGINEERING MANAGER (Y or N?)		S.Bremner *Print:*	S.Bremner *Sign:*	18/04/25 *Date:*
SITE ORIGINATOR		ORIGINATOR ACCEPTS PROPOSAL (Y or N?)		IF "NO", RETURN TO WOOD WITH COMMENT		
		ORIGINATOR TO DETAIL THE ACTIONS TAKEN				

Commissioning Query Form

		RM: ATTACHED DECLARATION FROM LIGHT FITTINGS MANUFACTURER CORTEM				
		SIGNATURE OF ORIGINATOR APPROVING THE PROPOSAL (Y or N?)		A.J.IVESON *Print:*	A.J.IVESON *Sign:*	31-MAY-2025 *Date:*
PROJ.ENG.		TECHNICAL QUERY CLOSE OUT BY PROJECT ENGINEER (Y or N?)		*Print:*	*Sign:*	*Date:*

CORTEM s.p.a.
cap. soc.€ 1.578.000,00 i.v.
R.E.A. C.C.I.A.A. GORIZIA U. 32755 - M. GO 000139
Registro Imprese Gorizia 00052120318
Cod.Fisc. e Partita Iva **IT00052120318**
Eco-contributo RAEE assolto ove dovuto n° Registro A.E.E. IT08020000001818

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Member of CORTEM GROUP
To be sure to be safe.

Cortem Spa
Via Aquileia, 10
34070 Villesse (GO)
ITALY

23/05/2025

SUBJECT: LIFEX battery back-up duration

PO Number: 1724001290

Cortem Job Number: COV2402693

Cortem Part Number: LIFEX emergency type

With reference to the here above PO number and subsequent details we here by confirm that the LIFEX lighting fixture emergency type might have duration in emergency mode in a range of ± 10% on the declared values.

Regarding the average lifetime and autonomy of the batteries which could depend on various factors, it is recommended to follow these guidelines:

· Before the lighting fixture installation, perform 3 complete charge and discharge cycles of the batteries (even with charging durations >36-48h);

· Once installed, perform new complete charge/discharge cycles at least every 6 months;

· For stock storage, ensure a complete charge/discharge cycle is performed at a minimum frequency of every 6 months.

For CORTEM S.p.a. :

Alberto Gerotto
Cortem S.p.a. - Quality Manager

Section 9 SUPPORTING DOCUMENTS

NOT APPLICABLE