ROSETTI MARINO

123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

CROSSWIND

Ready For Operation (RFO) Certificate

COMPLETE	●	PARTIAL	

Revision:	3		Issued on:	2025-04-23	
System:	84	/	Battery & No-Break System		
SubSystem:	84-00	/	DC 10 kVA UPS System (UP-200F1)		

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	2025-04-24	2025-04-25
Signature	PROVERLIS Digitaly signed by Anthony Iveson 2025-04-24T08:44:57.039Z	PROVERLIS Digitaly signed by Martin Taylor 2025-04-25T13:55:15.317Z

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 84-00 & process: COMM

Electrical	84-00 DC 10 kVA UPS System (UP-200F1)						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
A7/+03-QF1	DRAWER INCOMER A UPS - A7/+03-QF1	ONSHORE	C10002782	FP00	100	2024-11-08	RFO 3
		ONSHORE	C10002783	FTR-2	100	2024-09-20	RFO 3
		ONSHORE	C10002784	FTR-6	100	2024-10-02	RFO 3
		ONSHORE	C10003004	FTR-5	100	2025-04-22	RFO 3
A7/+04-QF1	DRAWER INCOMER B UPS - A7/+04-QF1	ONSHORE	C10002785	FP00	100	2024-11-08	RFO 3
		ONSHORE	C10002786	FTR-2	100	2024-09-20	RFO 3
		ONSHORE	C10002787	FTR-6	100	2024-10-02	RFO 3
		ONSHORE	C10003005	FTR-5	100	2025-04-22	RFO 3
BA-200F1	Battery Bank for DC UPS 10 kVA	ONSHORE	C10002794	FTR-3	100	2024-11-18	RFO 3
BA-200F1-C	UPS DC - BA-200F1-C	ONSHORE	C10002792	FTR-4	100	2024-11-12	RFO 3
BA-200F1-D	UPS DC - BA-200F1-D	ONSHORE	C10002793	FTR-4	100	2024-11-12	RFO 3
CB-200F1-QB	BATTERY CUTOFF UPS DC - CB-200F1-QB	ONSHORE	C10002788	FTR-2	100	2024-11-08	RFO 3
DP-200N1-Q43	BREAKER AUX UPS DC - DP-200N1-Q43	ONSHORE	C10002789	FTR-2	100	2024-10-28	RFO 3
UP-200F1	DC UPS 10 kVA Redundant System	ONSHORE	C10002790	FP16B	100	2025-03-12	RFO 3
		ONSHORE	C10002791	FTR-6	100	2025-03-12	RFO 3
UP-200F1-Q14	SPARE	ONSHORE	C10004595	FTR-2	100	2024-11-08	RFO 3
UP-200F1-Q15	SPARE	ONSHORE	C10004596	FTR-2	100	2024-11-08	RFO 3
UP-200F1-Q16	SPARE	ONSHORE	C10004597	FTR-2	100	2024-11-08	RFO 3

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 84-00 & process: COMM

Instrumental	84-00 DC 10 kVA UPS System (UP-200F1)						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
84-XS-006	DISCONNECT DC UPS (B-100 CONTAINER)	ONSHORE	C10003818	FJ01D	100	2025-01-28	RFO 3
84-XS-009	INHIBIT. BATTERY CHARGING B-100	ONSHORE	C10003813	FJ01D	100	2025-01-28	RFO 3

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 84-00 & process: COMM

Miscellaneous	84-00 DC 10 kVA UPS System (UP-200F1)						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
123A90-PML-COM-PRO-03050	OTP - UPS System UP-200F1 10kVA	ONSHORE	C10004627	5300	100	2025-04-19	-
		OFFSHORE	C10004948	5300	0	-	-

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	84	Battery & No-Break System
SUBSYSTEM	84-00	DC 10 kVA UPS System (UP-200F1)

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000915	A	C-CB-200F1/B400-SIS-001 C10000192	Missing thermoshrink on cable entry CB-200F1 side.	.		Pschintu 2024-11-25	2024-12-04	Ecarotenuto 2024-12-04	2024-12-04
C30000912	B	C-CB-200F1/B400-SIS-001 C10000192	Missing cable tag outside B-400-SIS-001 panel	.		Pschintu 2024-11-25	2025-02-04	Pschintu 2025-02-04	2025-02-04
C30001097	B	C-UP-200F1/B400-SIS-001 C10000193	Missing core identification tag by UP-200F1 side	.		Pschintu 2024-11-30	2025-03-06	JKrizanic 2025-03-06	2025-03-06
C30001098	B	C-UP-200F1/B400-SIS-001 C10000193	Missing SS cable tag	.		Pschintu 2024-11-30	2025-01-07	Gtangianu 2025-01-07	2025-01-07

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	84	Battery & No-Break System
SUBSYSTEM	84-00	DC 10 kVA UPS System (UP-200F1)

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000009	B	UP-200F1	AEG has to make sure that all parts are safely protected (IP2X)		INSTALLED PROTECTION	SLinari 2024-07-30	SLinari 2024-12-05	SLinari 2024-12-05	2024-12-05
C30000010	B	UP-200F1	Hardware and configuration of alarm for external battery protection box breaker to be included		DONE_IMPLEMENTED	SLinari 2024-07-30	SLinari 2024-12-05	SLinari 2024-12-05	2024-12-05
C30000011	B	UP-200F1	Terminals of Adapter RJ45 to be screwed (new customer requirement)		INSTALLED	SLinari 2024-07-30	SLinari 2024-12-05	SLinari 2024-12-05	2024-12-05
C30000012	B	UP-200F1	Pictures of all spare parts and interconnections to be provided before shipping		PROVIDED AND DELIVERED	SLinari 2024-07-30	SLinari 2024-12-05	SLinari 2024-12-05	2024-12-05
C30000013	B	UP-200F1	As-Built drawings with all final changes to be re-submitted: 1724000372-EL-DA-00003/1724000372-EL-DG-0			SLinari 2024-07-30	2025-03-06	JKrizanic 2025-03-06	2025-03-06
C30000252	B	83034-CEL C10000559	Cable gland to be tighten after correction of Bending radius of cable on UP-200F1	-		Gtangianu 2024-10-24	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30000253	B	83034-CEL C10000559	Wrong core identification tag on both cable's termination	-		Gtangianu 2024-10-24	2025-03-06	JKrizanic 2025-03-06	2025-03-06
C30000254	B	83034-CEL C10000559	Missing cable tags on internal and external side of MCT	-		Gtangianu 2024-10-24	2025-01-31	Gtangianu 2025-01-31	2025-01-31
C30000255	B	83034-CEL C10000559	Plastic cable ties to be replaced on external routing	-		Gtangianu 2024-10-24	2025-02-26	Pschintu 2025-02-26	2025-02-26

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 84 Battery & No-Break System
SUBSYSTEM 84-00 DC 10 kVA UPS System (UP-200F1)

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000256	B	83035-CEL C10000560	Missing cable tags on internal and external side of MCT	-		Gtangianu 2024-10-24	2025-01-31	Gtangianu 2025-01-31	2025-01-31
C30000257	B	83035-CEL C10000560	Wrong core identification tag on both cable's termination	-		Gtangianu 2024-10-24	2025-03-06	JKrizanic 2025-03-06	2025-03-06
C30000258	B	83035-CEL C10000560	Cable gland to be tighten after correction of Bending radius of cable on UP-200F1	-		Gtangianu 2024-10-24	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30000259	B	83035-CEL C10000560	Plastic cable ties to be replaced on external routing	-		Gtangianu 2024-10-24	2025-02-26	Pschintu 2025-02-26	2025-02-26
C30000267	B	83124-CEL C10002110	Plastic cable ties to be replaced on external routing	.		Gtangianu 2024-10-24	2025-02-26	Pschintu 2025-02-26	2025-02-26
C30000268	B	83124-CEL C10002110	Cable to be fixed with proper cable ties, after MCT installation of the panel DP-200N1	.		Gtangianu 2024-10-24	2025-01-31	Gtangianu 2025-01-31	2025-01-31
C30000269	B	83124-CEL C10002110	Wrong core identification tag on both cable's termination	.		Gtangianu 2024-10-24	2025-02-15	AAndreani 2025-02-15	2025-02-15
C30000270	B	84111-CEL-1-P C10000658	Missing core identification tag BC-200F1 side	-		Gtangianu 2024-10-25	2025-01-31	Gtangianu 2025-01-31	2025-01-31
C30000271	B	84111-CEL-1-P C10000658	Cable tag is wrong inside and outside CB-200F1	-		Gtangianu 2024-10-25	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 84 Battery & No-Break System

SUBSYSTEM 84-00 DC 10 kVA UPS System (UP-200F1)

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000272	B	84111-CEL-1-P C10000658	Bending radius of the cable to be correct on cable gland ingress above BC-200F1	-		Gtangianu 2024-10-25	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30000273	B	84111-CEL-1-N C10000659	Missing core identification tag BC-200F1 side	.		Gtangianu 2024-10-25	2025-01-31	Gtangianu 2025-01-31	2025-01-31
C30000274	B	84111-CEL-1-N C10000659	Bending radius of the cable to be correct on cable gland ingress above BC-200F1	.		Gtangianu 2024-10-25	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30000275	B	84111-CEC C10002342	Core identification tag are missing or wrong on both termination. (CB-200F1 to BC-200F1B)	.		Gtangianu 2024-10-25	2025-01-31	Gtangianu 2025-01-31	2025-01-31
C30000276	B	84111-CEC C10002342	Missing identification number of terminal trip X32 inside the panel BC-200F1B (UP-200F1B)	.		Gtangianu 2024-10-25	2025-03-06	JKrizanic 2025-03-06	2025-03-06
C30000277	B	84111-CEC C10002342	Missing cable tags inside and outside both panels (CB-200F1 to BC-200F1B)	.		Gtangianu 2024-10-25	2024-12-28	Gtangianu 2024-12-28	2024-12-28
C30000281	B	UP-200F1 C10000870	Cleaning is required inside the panels.	.		Gtangianu 2024-10-30	2024-11-23	Lmussi 2024-11-23	2024-11-23
C30000282	B	CB-200F1 C10000853	Missing thermo shrink on internal earthing connection	-		Gtangianu 2024-10-30	2025-03-06	JKrizanic 2025-03-06	2025-03-06
C30000283	B	BA-200F1 C10000846	Missing tags on Battery Bank	.		Gtangianu 2024-10-30	2025-02-04	Gtangianu 2025-02-04	2025-02-04

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 84 Battery & No-Break System
SUBSYSTEM 84-00 DC 10 kVA UPS System (UP-200F1)

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000284	B	BA-200F1 C10000846	Missing plastic Cover on SS jumper between cell 9 and 10. Plastic cover on SS jumper between cells 5 and6 is damaged.	.		Gtangianu 2024-10-30	2025-03-06	JKrizanic 2025-03-06	2025-03-06
C30000285	B	84110-CEC C10002341	Missing core identification tag on spare wires inside UP-200F1B	.		Gtangianu 2024-10-30	2025-01-31	Gtangianu 2025-01-31	2025-01-31
C30000286	B	84110-CEC C10002341	Missing cable tag inside BC_200F1A	.		Gtangianu 2024-10-30	2024-12-18	Gtangianu 2024-12-18	2024-12-18

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	84	Battery & No-Break System
SUBSYSTEM	84-00	DC 10 kVA UPS System (UP-200F1)

Telecom

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000789	B	UP-200F1/B400 -NET-001.01 C10004368	Identification cable tag missing inside UP-200F1 connection.	.		Gtangianu 2024-11-22	2025-03-06	JKrizanic 2025-03-06	2025-03-06
C30000790	B	UP-200F1/B400 -NET-001.02 C10004369	Identification tag wire missing inside UP-200F1 connection.	.		Gtangianu 2024-11-22	2024-12-18	Gtangianu 2024-12-18	2024-12-18