

Maintenance checks report

Checklist name	Year
05_MV - Site proposal - season 6	6

Site	Turbine serial number	Order number
Wikinger	WK16 - 1121456	60606584
Language	Revision date checklist	Approval date
en-US	2/21/2024	10/25/2024

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1. Tools

Tools				
Group	#	Name	Calibration ID	Remarks
1	1	Battery tester (Dummy-Adw020)	G264988	



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2. Check details

2.1. Checks from the maintenance plan

ECN

AD 5	-135_1_1_5_MV_year_null					
#	Measuring points	Remarks	Tools	Status		
Loca	ocation: Nacelle inside					
1	ATD000276.0: Generator - Overload clutch and bolts - Inspection					
2	ATD000276.1: Generator - Overload clutch body spring - Inspection					
3	ATD000276.2: Generator - Overload clutch mark aligned with rotor mark - Inspection			/		
4	ATD000373.0: Slip ring unit - Power bushes and rings - Inspection					
5	ATD000373.1: Slip ring unit - Signal bushes and rings - Inspection			/		
6	ATD000377.0: Generator - Upper grounding brush - Inspection					
7	ATD000377.1: Generator - Upper grounding brush support component - Inspection					
8	ATD000377.2: Generator - Middle grounding brush - Inspection			/		
9	ATD000377.3: Generator - Middle grounding brush support component - Inspection					
10	ATD000377.4: Generator - Bottom grounding brush - Inspection					
11	ATD000377.5: Generator - Bottom grounding brush support component - Inspection					
12	ATD000605.0: Generator - Enclosure of the machine and all holding fixtures - Inspection			/		
13	ATD000605.1: Generator - Stator covers seal & winding connections tightness and external damages - Inspection			/		
14	ATD000605.2: Generator - Terminal box and all the connections - Inspection					
15	ATD000605.3: Generator - Rotor - Inspection			/		
Loca	tion: Tower					
16	ADWI017124.10: Main UPS - Cabinet structure - Inspection			/		
17	ADWI017124.11: Main UPS - Battery trays - Inspection and torque	Remark 1 Postpone to NCR campaign or replacement of batteries		/		



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AD 5	.135_1_1_5_MV_year_null					
#	Measuring points	Remarks	Tools	Status		
Locat	ocation: Tower					
18	ADWI017124.12: Main UPS - Platform fixation - Inspection and torque	Remark 1 Postpone to NCR campaign or replacement of batteries				
19	ADWI017124.1: Main UPS - External cover panels - Inspection and torque			<u> </u>		
20	ADWI017124.2: Main UPS - Cabinet doors are correctly closed and the handles work properly - Inspection	Remark 1 SO created 60732501				
21	ADWI017124.3: Main UPS - Upper/ lower locking plates - Inspection and torque			/		
22	ADWI017124.4: Main UPS - Fastening claws - Inspection and torque					
23	ADWI017124.5: Main UPS - Locking brackets - Inspection and torque					
24	ADWI017124.6: Main UPS - Locking rods - Inspection and torque	Remark 1 Postpone to NCR campaign or replacement of batteries // Done SO 60531391		/		
25	ADWI017124.7: Main UPS - Locking rod end - Inspection	Remark 1 Postpone to NCR campaign or when replacement of batteries // Done SO 60531391		/		
26	ADWI017124.8: Main UPS - Hinges - Auditory inspection					
27	ADWI017124.9: Main UPS - Internal structure - Inspection and torque	Remark 1 Postpone to NCR campaign or replacement of batteries // Done SO 60531391				
28	ATD000311.6: Wind turbine system - Emergency stop button at lift frame - Test					
29	ATD000383.0: Converter - Main components on the CCU - Inspection			<u></u>		
30	ATD000383.10: Converter - Ground connection - inspection			<u></u>		
31	ATD000383.11: Converter - Lateral fan with heater in CCU - inspection			<u> </u>		
32	ATD000383.12: Converter - Roof fan in FIU - Inspection			<u></u>		
33	ATD000383.13: Converter - Roof and door fan in POU - inspection					
34	ATD000383.14: Converter - Roof and door fan in DLU - inspection			<u></u>		
35	ATD000383.15: Converter - Pump - Auditory inspection					



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AD 5	D 5-135_1_1_5_MV_year_null					
#	Measuring points	Remarks	Tools	Status		
Loca	ocation: Tower					
36	ATD000383.16: Converter - Pump has no leakages - Inspection			/		
37	ATD000383.17: Converter - Vessel hoses - Inspection			/		
38	ATD000383.1: Converter - Cable connections on the CCU - inspection					
39	ATD000383.2: Converter - Main components on the FIU - Inspection					
40	ATD000383.3: Converter - Cable connections on the FIU - inspection			/		
41	ATD000383.4: Converter - Main components on the POU - Inspection			/		
42	ATD000383.5: Converter - Cable connections on the POU - inspection			/		
43	ATD000383.6: Converter - Main components on the DLU - Inspection					
44	ATD000383.7: Converter - Cable connections on the DLU - inspection			/		
45	ATD000383.8: Converter - Main components on the WCU - Inspection			/		
46	ATD000383.9: Converter - Cable connections on the WCU - inspection					
47	ATD000511.0: Converter cooling system - Pipe water circuit - Inspection					
48	ATD000512.2: Converter cooling system - Pump 1 slip ring sealing - Replace			/		
49	ATD000512.3: Converter cooling system - Pump 2 slip ring sealing - Replace					
50	ATD000538.0: Emergency lights UPS - Door fan - Auditory inspection			/		
51	ATD000538.1: Emergency lights UPS - Manual battery test - Test			/		
52	ATD000538.2: Emergency lights UPS - Fuses F4, F5, F6, F7, F8 and F9 - Inspection			<u></u>		
53	ATD000538.3: Emergency lights UPS - All internal components and wiring - Inspection			<u></u>		
54	ATD000538.4: Emergency lights UPS - Battery box - Inspection			<u></u>		
55	ATD000538.5: Emergency lights UPS - Thermostats properly adjusted - Inspection					



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AD 5-	AD 5-135_1_1_5_MV_year_null					
#	Measuring points		Remarks	Tools	Status	
Locat	ion: Tower					
56	ATD000538.6: Emergency lights UPS - Measurement points - Measure					
	G6 Resistance	+10,2 mOhm				
	G5 Voltage	+13,5 V				
	G5 Resistance	+10,9 mOhm				
	G4 Voltage	+13,7 V				
	G4 Resistance	+10,4 mOhm				
	G3 Voltage	+13,2 V				
	G3 Resistance	+11,2 mOhm				
	G2 Voltage	+13,7 V				
	G2 Resistance	+10,9 mOhm				
	G1 Voltage	+13,9 V				
	G1 Resistance	+10,5 mOhm				
	G6 Voltage	+13,6 V				
57	ATD000538.7: Emergency lights UPS - Tightness of and the fixed terminal adapter on the back - Inspection				/	
58	ATD000538.8: Emergency lights UPS - Filter and exl Replace, if necessary	naust filter mats -			/	
59	ATD000559.2: Platform 6 - Bolted joints according to	ATD000562 - inspection				
60	ATD000586.0: Main UPS - Remote battery test - Tes	ıt	Remark 1			
	Battery tester	Yes	Test will be done by ST remotely			
61	ATD000586.10: Main UPS - Batteries cabinet - Inspe	ection			/	
62	ATD000586.11: Main UPS - Measurement points - M	leasure				
	G33-G64 Voltage	+438 V			Ť	
	G1-G32 Voltage	+438 V				
	G33-G64 Type number					
	CTL 100-12					



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AD 5-	135_1_1_5_MV_year_null				[5/0]
#	Measuring points		Remarks	Tools	Status
Locat	ion: Tower				
	G33-G64 Stock number				
	26903HRA08				
	G1-G32 Type number				
	CTL 100-12				
	G1-G32 Stock number				
	26903HRA08				
63	ATD000586.1: Main UPS - Cabinet - Inspection	J	Remark 1 UPS Reinforcement Kit installed SO 60531391		
64	ATD000586.2: Main UPS - Filter mats - Replace				
65	ATD000586.3: Main UPS - Manual by-pass (UPS dis restarting performed? - Inspection	connection) activation/			<u></u>
66	ATD000586.4: Main UPS - LEDs states of rectifier ar	nd inverter - Inspection			/
67	ATD000586.5: Main UPS - Output voltages of the red	ctifier - Measure			
	Voltage in RCB	+402 V			
68	ATD000586.6: Main UPS - Output voltages of the sta	atic by-pass - Measure			
	Voltage in Q1	+403 V			
69	ATD000586.7: Main UPS - Output voltages of the inv	verter - Measure			
	Voltage in OCB	+397 V			
70	ATD000586.8: Main UPS - UPS battery cabinet temp Measure	perature (VISU) -			/
	Temperature (VISU)	+14,9 °C			
71	ATD000586.9: Main UPS - Output voltages from batt	ery cabinet - Measure			
	Voltage in BCB: 435.8V (25°C)	+440 V			
72	ATD000613.0: Medium-Voltage cabling - Converter i	nput/ output MV cables -			
73	ATD000613.1: Medium-Voltage cabling - S1-S2 MV	cables - Inspection			/
74	ATD000613.2: Medium-Voltage cabling - Cables alor switchgears in the S3 and the connection chambers in				
75	ATD000644.1: Auxiliary transformer - Earthing conne	ections - Inspection			
76	ATD000644.2: Auxiliary transformer - Oil leakage - Ir	nspection			



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AD 5	D 5-135_1_1_5_MV_year_null				
#	Measuring points		Remarks	Tools	Status
Loca	ion: Tower				
77	ATD000644.4: Auxiliary transformer - Terminal conn	ections - Inspection			/
78	ATD000647.0: Main transformer - Oil leakage - Inspe	ection			
79	ATD000647.1: Main transformer - Paint - Inspection				/
80	ATD000647.2: Main transformer - Earthing connection - Inspection				
81	ATD000647.4: Main transformer - Cooling system - Inspection				
82	ATD000647.5 : Main transformer - Resistance therm	ometer - Test			
	Temperature difference	+2,1 °C			
83	ATD000668.3: UPS - Axial fans - Replace				
84	ATD000668.4: UPS - Filter fans - Replace				
85	ATD000690.1: Converter - Filter mats - Replace				