

AUDIT REPORT



SAS VESTAS FRANCE
BAT LATITUDE AIRPORT PARK
770 AV ALFRED SAUVY
34470 PEROLS

WORK EQUIPMENT

Periodic general verification

Equipment type	Designation	Brand	Immat. bearer // Customer wording	Verification location. Emp lacing	No. Obs	Not verified	Recommended shutdown
Lifting gear	ELEVATOR SUSPENDED	PowerClimber	C01 239655	Wind turbine barrel C01	1		

Intervention address:
SAS VESTAS FRANCE
ORMELOTS WIND FARM
10700 CHAMPFLEURY

Mission carried out on 03/04/22

Accompanist: Mr. Julian LASSALLE - Socotec Technician (Autonomy)

Case number: 2203EN5G0000002/1000

Designation: Vestas - Ormelots-Periodic general inspection of devices

Intervention number: EN5G0220300000000114

Report date: 03/24/2022 - Report reference: EN5G0/22/2065

Site reference: 239655_LES ORMELOTS_C01_EDP



Presence of observation(s)

1.0.0.1 - EDT573506

ENR Metz Equipment Agency

ENR center - SOCOTEC EQUIPEMENTS - SOCOTEC WOIPPY - 57140 WOIPPY

Such. : (+33)3.87.30.19.86

Email: enr@socotec.com

SOCOTEC EQUIPEMENTS - SAS with capital of 8,500,100 euros - 834 096 695 RCS Versailles

Head office: Mirabeau building - 5 place des Freres Montgolfier

Guyancourt - CS 20732 - 78182 Saint Quentin-en-Yvelines Cedex - FRANCE - www.socotec.fr

Verifier: Mr CADART Julien

Number of pages: 5



Accreditation

n°3-1593

List of locations and scope
available on
www.cofrac.fr

END MISSION REPORT

At the end of the mission, a verbal report containing the essential information from the verification was produced by the SOCOTEC representative to Elodie MARIE.

VERIFICATION CONDITIONS

The control was carried out in accordance with regulatory or contractual requirements:

- by visual examination of the accessible parts or made accessible at the request of the verifier; - by operating tests;
- by load tests for lifting devices.

The list of verification points is included in the appendix to this report.

CHECKING THE EQUIPMENT

1. EQUIPMENT IDENTIFICATION

Designation	SUSPENDED ELEVATOR
Manufacturer / Brand	PowerClimber
Kind	SHERPA-SD4
Serial number	SL 026357
Customer number or reference	C01 239655
Number assigned by Socotec	C01
Year of manufacture	2021
Marking	THIS

2. MAIN FEATURES OF THE EQUIPMENT

Weight and position of ballast	Located under the lower platform on the suspension and safety cables.
Configuration	suspended and guided by cables
Additional characteristics of the stems	Steel beam
Gripping or load-supporting equipment	Full-walled basket
Hangers	Lifting cable: 1 strand diameter 8.40 mm / Break > 50kN Safety cable: 1 strand diameter 8.40 mm / Break > 50kN
Other features	Elevator integrated into a wind turbine: -Equipped with a lifting gear motor fixed on a bolted steel structural stirrup -Lift height: 90.00 m -Travel speed: 17.00 m/min -Power: 1.3 kW -Secure access to the cabin via 2-part sliding door -1 secure tower base landing and 1 secure terminal landing -Fixed control station -2 EPI anchor points on interior stirrup + 1 point outside the cabin -Guidance: 2 strands diameter 12.00 mm -TITAN parachute type anti-fall device: 4211305 -Low anti-crushing device + high overtravel -Manual emergency descent device -Hours: 18.90
Maximum Payable Load (CMU) - Maximum Capacity - Abacus (Extracts)	240 kg / 2 people

3. MAIN SAFETY DEVICES PRESENT

Emergency stop	"Punch" type push button with latching in depressed position
Lifting movement travel limiters	Up and down
Other travel limiters on	High (over-travel) and low (anti-crush)

lifting movements (off-travel, over-travel, etc.)	
Monitoring of forces generated by the load	Indicator and load limiter (set at CMU +25% according to manufacturer data)
Line slack detector and associated parachute system	With automatic mechanical stop system with overspeed detection
Detection of presence of obstacle when descending	Electromechanical detection with movement stop
Load descent overspeed Device for attaching	With automatic mechanical stop system with overspeed detection
individual protection against falls from height (excluding "lifeline")	Dedicated anchor points
Device for controlling the operation of the device upon closing of an access control device	Closing detection of the cabin door and landing doors
Other safety device(s)	Emergency braking Manual recovery steering wheel

4. SPECIAL VERIFICATION CONDITIONS

Regulation taken as reference	Order of 01/03/2004 (amended) and article R4323-23 of the Labor Code
Regulatory frequency (months)	6
Frequency chosen by the customer (months)	6
Conditions for carrying out the verification	Device in service, operating tests carried out
Time required for verification	Device availability time suitable for verification
Documents required for verification	Documents made available to the device suitable for verification
Support necessary for verification Personnel ensuring the driving and operation of the device present	
Loads and their handling means necessary for verification	Loads and handling means made available here
Secure testing area required for verification	Security conditions suitable for verification
Means of access necessary for verification Means of access present suitable for verification	
Verification Location/Location	Wind turbine barrel C01
Document(s) presented	Instructions for use - Declaration of conformity

5. CONDITIONS FOR CARRYING OUT LOAD TESTS

Mass of test loads made available (kg)	300
Load test configuration(s) (mass, range, angle, hauling, stabilizers, etc.)	Tests of all mechanisms at 240 kg. Test of the device for placing and maintaining the load at 240 kg. Test according to manufacturer's instructions for the parachute device at 240 kg. Load limiter test according to manufacturer's instructions at 300 kg.

6. RESULT OF THE VERIFICATION

The checks carried out within the limits of this mission have highlighted anomalies or defects which must be remedied as soon as possible.

Items checked	Comments	No.
Chassis - Frame - Structure - Carrier / Trolley - Rollers - Guidance - Slides	The tension of the guide cables is insufficient. Resume the cable tension, following the instructions in the manufacturer's instructions.	1

Items checked	Comments	No.
		

ANNEX 1: List of work equipment verification points (EdT)

The verifications carried out by SOCOTEC in its capacity as a third party organization make it possible to meet the regulatory requirements taken as reference and recalled for each piece of equipment in the chapter "Special verification conditions".

The verification focused on the state of conservation and operation of the following points (1), within the limits of the nature of the work equipment and the devices with which it is equipped during the verification.

For lifting devices, it includes load tests to the extent that the necessary conditions for carrying out these tests are met.

The verification did not cover the state of conformity of the work equipment.

Lifting devices

Permanently installed access • Access	Hydraulic equipment • Hydraulic
to the driving position(s) • Access to the device support(s) • Other access for maintenance, verification • Runway, rails •	equipment • Links and connections • Levels - Pressure • Filters
Posts, corbels, jib, anchors, fixings • Seating, sealing, supports • Bumpers, shock absorbers • Anchors, mooring, guying • Earthing of the track • Assemblies, connections, fixings • Chassis - Carrier - Frame - Structure - Posts/masts • Mast(s), jib, counter jib • Fin plates • Running gear (tyres, tracks, rollers, etc.) • Catchers or equivalent device • Stabilizers and their holding devices • Ballast or counterweight • Geared motor groups • Winch • Screw/nut systems • Rack and pinion/crown/chain systems • Scissor system(s) • Other transmission and coupling devices • Brakes for movements contributing to lifting • Brakes for horizontal movements / translation / orientation • Other brakes (2) • Mobile transmission parts and their protections • Level adjustment mechanism • Cables - Chains - Straps • Fasteners - Fixed points - Wedge box • Drums - Pulleys - Rollers • Block - Hook - Safety latch • Fork - Bucket - Gripper - Spur - Stem - Grapple • Electromagnet, vacuum gripping (suction cups, etc.) • Device linked to energy failure • Support load • Passenger compartment, basket, nacelle • Other gripping devices	Pneumatic equipment • Pneumatic equipment • Links and connections • Pressure • Filters - Exhausts • Engine • Fuel tank - Gas bottle • Protection of moving engine elements • Protection against burns (exhaust, etc.)
Electrical equipment • Enclosures (enclosures, cabinets, boxes, etc.) • Electrical equipment • Links and connections • Interconnection of metal masses	Driving position(s) • Location • Construction, fixings, floor • Protection against falls from height • Driver protection (head protector, roof, FOPS, ROPS, etc.) • Protection against mechanical risks • Folding platform • Visibility (windows, windshield wipers, rear-view mirrors, mirror, etc.) • Fire extinguisher in the cabin or on the device • Seat and seat belt • Heating - Lighting • Access lock (key, code)
	Operating devices • Starting device • General/workstation/ emergency stopping device(s) • Maintained action control device • Device limiting use to authorized persons • Troubleshooting or rescue station • Remote controls • Other service devices (push buttons, etc.)
	Warning and signaling devices • Signaling devices (lights, displays, etc.) • Warning devices (visual, audible, etc.)
	Display and instructions • Display of the maximum useful load (CMU) • Load table - Charts • Warnings - Instructions • Refer to the devices listed for each device (2)
	Management of energy sources • Separation / dissipation devices • the device • Lighting of the work area and/or road traffic

(1) The list is given for information only and cannot be considered as an exhaustive list of verification points. (2) The nature of these specific organs and devices is indicated in the description of each work equipment checked.