

INSPECTION REPORT



SIEMENS GAMESA RENEWABLE ENERGY
Le Colisée Building, A Wing, 10 Avenue de l'Arche, La
Défense, Les Faubourgs de l'Arche, 92419 Courbevoie
Cedex

WORK EQUIPMENT

Periodic general inspection

Type of equipment	Designation	Brand	Registration holder // Customer label	"Verification location // Employment"	"# of Obs"	"Unverified"	"Recommended shutdown"
Lifting device	" Suspended personnel lift"	GORACON	E04		"0"		

Intervention address: PARC EOLIEN
OFFSHORE. 76400 FECAMP

Mission completed on 02/17/25

Previous verification date: 01/09/24 Frequency: 6 months / Next
verification: 08/25

SOCOTEC References:

Report No.: H0290/25/2382 Report Date:
17/02/2025

Case No.: 2501H0290000018/1000 Designation: SIEMENS H0290 - FECAMP OFFSHORE WIND FARM (2025) - Controls
Intervention No.: H0290250100000000533



No observations

Client References:

Site: FECAMP E04 ELEVATOR (LIFT)

2.1.3.0 - EDT811213

ENR North Agency

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Verifier: M DE GEA Tanguy Number of pages:

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Accreditation SOCOTEC Equipment n°3-1593 List of
locations and scope available on www.cofrac.fr

END OF MISSION REPORT

A provisional report was handed over on site to SIEMENS.

VERIFICATION TERMS

Accompanist: SIEMENS TECHNICIAN

The inspection was carried out in accordance with regulatory or contractual requirements: - by visual examination of accessible parts or made accessible at the request of the inspector; - by functional tests; - by load tests for lifting equipment. The list of inspection points is included in the appendix to this report.

EQUIPMENT VERIFICATION

1. EQUIPMENT IDENTIFICATION

Designation	"Personnel Elevator"
Manufacturer / Brand	GORACON
Type	GWB-450-SWP
Serial Number	SL102280
"Customer number or reference"	E04
Year of manufacture	2023
Marking	CE

2. MAIN EQUIPMENT CHARACTERISTICS

"Weight and position of ballasts"	Tensioning ballasts for the traction cable and safety cable located at the lower level.
Configuration	Suspended and cable-guided in the wind turbine tower
Gripping or load support equipment	"Enclosed cabin"
"Hung"	- 1 steel lifting cable with a diameter of 9.0 mm; "- 1 steel safety cable with a diameter of 9.0 mm;" "- 2 cabin guidance cables with diameters of 12.0 mm."
Other features	- GORACON G-TRAC winch (CMU 800 kg) GT107771 (2023) ; - GORACON G-LOCK parachute system (CMU 800 kg) #GL108164 (2023) ; - Empty mass: 259 kg ; - Lifting height: 80 m ; - Lifting speed: 18 m/min ; - Device power: 3 kW ; - Access to the cabin via sliding door ; "- 4 secured intermediate platforms and 1 secured terminal platform ;" - Control from a cabin console ; "- Automatic send and recall function at each tower section ;" - Operating hours: 24.23 h ; "- Emergency descent time: 0.13 h (limit: 5h)."
Maximum Useful Load (MUL) - Maximum Capacity - Chart (Extracts)	990 lbs / 3 persons

3. MAIN SAFETY DEVICES PRESENT

Emergency stop	"Panic buttons of the 'fist blow' type with latching in the pressed position (in the cab and at each tower section)"
"Stroke limiters of lifting movements"	Up and down
Other travel limiters on lifting movements (over-travel, under-travel, ...)	Obstacle detection on lifting
"Monitoring of load-generated forces"	Indicator (red light in cabin) and load limiter

Suspension shock detector and associated parachute system	With automatic mechanical stop system for overspeed detection
Obstacle presence detection during descent	Electromechanical detection with movement stop and parachute deployment
Excessive descent speed of the payload	With automatic mechanical arrest system for overspeed detection
Device for attaching individual fall protection (outside "lifeline")	3 dedicated anchor points in the cabin
Device for controlling the operation of the device when a access control device is closed	Detection of cabin door closure
Other safety device(s)	<ul style="list-style-type: none"> - Manual emergency descent by releasing the brake on the winch motor; - Manual override crank on the winch motor for rearming the parachute device in case of failure; - Cabin master key for unlocking access hatches;" - Battery-powered emergency lighting in the cabin."

4. SPECIAL INSPECTION CONDITIONS

Regulation referred to	Order of 01/03/2004 (amended) and article R4323-23 of the Labor Code
Regulatory periodicity (months)	6
Periodicity retained by the client (months)	6
Conditions for performing the verification	Equipment in service, functional tests performed
Time required for verification	Time to make available the device adapted for verification
"Documents required for verification"	"Documents made available to the device adapted for verification"
"Support necessary for verification Personnel ensuring the operation and maneuvering of the device present"	
Loads and their handling means necessary for verification	Loads and handling means made available on site
"Secure testing area necessary for verification"	"Security conditions adapted for verification"
Means of access necessary for verification	Means of access available adapted for verification
Document(s) presented	Installation Notice (document n°19801 / version 16 10/2022 / 119 pages), User Manual (document n°28525 / version 17 09/2022 / 119 pages) Maintenance Notice (document n°19802 / version 16 09/2022 / 112 pages).

5. CONDITIONS FOR CONDUCTING LOADED TESTING

Mass of test loads made available (kg)	591 kg (15 kg masses + technicians)
Load test configuration(s) (mass, range, angle, muffling, stabilizers,...)	<p>Testing of all mechanisms at the CMU (450 kg);</p> <p>"Testing of setting and maintaining the load at rest at the CMU (450 kg) for 10 minutes;"</p> <p>"Testing of the parachute device at the CMU (450 kg);"</p> <p>"Testing of the load limiter following the manufacturer's recommendations based on the email from Mr. Frederic Jostarndt, Goracon technical service," dated November 29, 2023: cabin elevation possible at a load of 561 kg; cabin elevation impossible at a load of 591 kg.</p>

6. RESULT OF THE VERIFICATION

The verifications carried out within the limits of this mission did not reveal any anomalies or defects.

ANNEX 1: List of inspection points for work equipment (EdT)

The inspections carried out by SOCOTEC as a third-party organization enable compliance with the regulatory requirements referred to and recalled for each piece of equipment in the chapter "Specific Verification Conditions". The verification covered the condition "of maintenance and operation of the following points (1), within the limits of the nature of the work equipment and" "and devices with which it is provided during verification. For lifting equipment, it includes load tests in" under the condition that the necessary conditions for carrying out these tests are met. The verification did not cover on the state of conformity of the work equipment.

Lifting equipment

Installed access points ? Access to control point(s) ? Access to equipment support(s) ? Other access for maintenance, verification Running path - Supports ? Running path, rails ? Posts, corbels, crane, anchors, fasteners ? Base, sealing, supports ? Buffers, shock absorbers ? Anchors, mooring, stay ? Earthing of the track Frame - Framework - Structure - Carrier ? Assemblies, connections, fastenings ? Frame - Carrier - Structure - Masts/posts ? Mast(s), boom, counter boom ? Dive planes ? Rolling elements (pneumatic, tracks, rollers ...) ? Object retrieval device or equivalent ? Stabilizers and their retention devices ? Weights or counterweights Mechanisms ? Motor reducers ? Winch ? Screw/nut systems ? Sprocket-chain/crown/chain systems ? Scissor(s) system ? Other transmission organs and couplings ? Brakes for lifting movements ? Brakes for horizontal / translation / orientation movements ? Others brakes (2) ? Mobile transmission organs and their protections ? Tilt adjustment mechanism Hangers - Drums - Pulleys ? Cables ? Chains ? Slings ? Attachments ? Fixed Points ? Coin Box ? Drums ? Pulleys ? Sheaves Lifting and load support devices ? Mitten ? Hook ? Safety latch ? Fork ? Bucket ? Clamp ? Spur ? Crane - Grab ? Electromagnet, vacuum gripping (suction cups, ...) ? Device related to energy failure ? Load support ? Cabin, basket, nacelle ? Other gripping devices Electrical equipment ? Enclosures (cabinets, panels, boxes, ...) ? Electrical equipment ? Connections and wiring ? Interconnection of metal masses	Hydraulic equipment ? Hydraulic equipment ? Connections and fittings ? Levels - Pressure ? Filters Pneumatic equipment ? Pneumatic equipment ? Connections and fittings ? Pressure ? Filters - Exhausts Thermal equipment ? Engine ? Fuel tank ? Gas bottle ? Protection of engine moving parts ? Protection against burns (exhaust, ?) Driving post(s) ? Installation ? Composition, mountings, floor ? Fall protection ? Operator protection (head guard, roof, FOPS, ROPS, ...) ? Protection against mechanical hazards ? Folding platform ? Visibility (glazing, windshield wipers, rearview mirrors, mirror, ...) ? Fire extinguisher in cab or on equipment ? Seat and safety belt ? Heating - Lighting ? Access lockout (key, , code) Service controls ? Start-up device ? General/Workstation/Emergency stop device(s) ? Control device ? Sustained action control device ? Device limiting use to authorized persons ? Maintenance or rescue station ? Controls ? Remote control ? Other service organs (push buttons, ...) "Alarm and signaling devices" ? Signaling devices (lights, displays, ?) ? Alarm devices (visual, audible, ?) Display and instructions ? Display of maximum useful load (MUL) ? Load chart - Graphs ? Warnings - Instructions Safety devices ? Refer to the devices listed for each device (2) Energy Source Management ? Separation/Dissipation Devices Integrated lighting ? Lighting of the work area and/or road traffic
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(1) The list is provided for information purposes and cannot be considered as an exhaustive list of points for verification

(2) The nature of these specific organs and devices is indicated in the description of each verified piece of work equipment.