

# AUDIT REPORT



## SIEMENS GAMESA RENEWABLE ENERG

The Coliseum Building , Building A  
10 Arch Avenue  
The Defense The Suburbs of the Arch  
92419 COURBEVOIE CEDEX

## WORK EQUIPMENT

Periodic general check

Equipment type	Designation	Brand	Bearer registration // Customer label	Verification location lacing	Nb Obs	Not verified	Shutdown recommended
Lifting device	Suspended personnel lift	GORACON	E04		0		

**Intervention address:**  
**OFFSHORE WIND FARM**  
**76400 FECAMP**

**Mission completed on 02/17/25**

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

SOCOTEC references:

**Report No.: H0290/25/2382**

**Report date: 02/17/2025**

Case No.: 2501H0290000018/1000

Designation: SIEMENS H0290 - FECAMP OFFSHORE WIND FARM (2025) - Controls  
Intervention number: H0290250100000000533



No observations

Customer References:

Site: FECAMP E04 ELEVATOR OF  
PEOPLE (LIFT)

2.1.3.0 - EDT811213

**ENR Nord Agency**

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Number of pages: 4



SOCOTEC Equipment Accreditation  
No. 3-1593  
List of locations and scope  
available on www.cofrac.fr

## END OF MISSION REPORT

A provisional report was submitted to SIEMENS on site.

## TERMS OF VERIFICATION

Accompanist: SIEMENS TECHNICIAN

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

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

The list of verification points is attached as an appendix to this report.

## EQUIPMENT CHECK

### 1. EQUIPMENT IDENTIFICATION

Designation	Suspended personnel lift
Manufacturer / Brand	GORACON
Kind	GWB-450-SWP
Serial number	SL102280
Customer number or reference	E04
Year of manufacture	2023
Marking	THIS

### 2. MAIN CHARACTERISTICS OF THE EQUIPMENT

Weight and position of ballasts	Tensioning ballasts for the traction cable and the safety cable located on the lower level.
Configuration	Suspended and guided by cable in the wind turbine tower
Gripping or load-supporting equipment	Full-wall cabin
Hangers	<ul style="list-style-type: none"> <li>- 1 steel lifting cable with a diameter of 9.0 mm;</li> <li>- 1 steel safety cable with a diameter of 9.0 mm;</li> <li>- 2 cabin guide cables with diameters of 12.0 mm.</li> </ul>
Other features	<ul style="list-style-type: none"> <li>- GORACON G-TRAC winch (CMU 800 kg) GT107771 (2023);</li> <li>- GORACON G-LOCK parachute device (CMU 800 kg) n°GL108164 (2023);</li> <li>- Empty weight: 259 kg;</li> <li>- Lifting height: 80 m;</li> <li>- Lifting speed: 18 m/min;</li> <li>- Device power: 3 kW;</li> <li>- Access to the cabin via sliding door;</li> <li>- 4 secure intermediate platforms and 1 secure terminal platform;</li> <li>- Control by console in the cabin;</li> <li>- Automatic return and recall function at each section of the tour;</li> <li>- Operating hours: 24.23 h;</li> <li>- Emergency descent hours: 0.13 h (limit: 5 h).</li> </ul>
Maximum Useful Load (MUL) - Maximum capacity - Chart (Extracts)	450 kg / 3 people

### 3. MAIN SAFETY DEVICES PRESENT

Emergency stop	"Punch" type push buttons with latching in the depressed position (in the cabin and at each section of the tower)
Lifting movement travel limiters	Up and down
Other travel limiters on lifting movements (over-travel, over-travel, etc.)	Obstacle detection on the way up
Monitoring of the forces generated by the load	Indicator (red light in cabin) and load limiter

Case No.: 2501H0290000018/1000 / Report Reference: H0290/25/2382

Nature of the mission: Periodic general verification

Verification location: OFFSHORE WIND FARM

Slack line detector and associated parachute system	With automatic mechanical stop system with overspeed detection
Obstacle presence detection on descent	Electromechanical detection with movement stop and parachute triggering
Load descent overspeed	With automatic mechanical stop system with overspeed detection
Device for attaching a protection individual protection against falls from a height (excluding "lifeline")	3 dedicated anchor points in the cabin
Device for controlling the operation of the device when an access control device is closed	Cabin door closing detection
Other safety device(s)	<ul style="list-style-type: none"> <li>- Emergency manual descent by releasing the winch motor;</li> <li>- Manual restart wheel on the winch motor to re-arm the parachute device in the event of a breakdown;</li> <li>- Key trapped in the cabin to unlock the access doors;</li> <li>- Battery-powered emergency lighting in the cabin.</li> </ul>

## 4. SPECIAL CONDITIONS OF VERIFICATION

Regulations 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	Time for making the device available for verification
Documents required for verification	Documents made available to the device suitable for verification
Accompaniment required for verification Personnel responsible for driving and operating the device present	
Loads and their handling means necessary for verification	Loads and handling equipment made available present
Secure test area required for verification	Safety conditions suitable for verification
Means of access necessary for verification Means of access present suitable for verification	
Document(s) presented	Installation instructions (document no. 19801 / version 16 10/2022 / 119 pages), user instructions (document no. 28525 / version 17 09/2022 / 119 pages) maintenance instructions (document no. *19802 / version 16 09/2022 / 112 pages).

## 5. CONDITIONS FOR CARRYING OUT LOAD TESTS

Mass of test loads provided (kg)	591 kg (weight 15 kg + technicians)
Load test configuration(s) (mass, span, angle, rigging, stabilizers, etc.)	<p>Testing of all mechanisms at CMU (450 kg);</p> <p>Test of starting and maintaining the load at CMU (450 kg) for 10 min;</p> <p>Testing of the parachute device at CMU (450 kg);</p> <p>Load limiter tests following the manufacturer's recommendations according to Mr. Frederic Jostarndt, Goracon technical service, as of 29/11/2023: 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 checks carried out within the limits of this mission did not reveal any anomalies or defects.

## ANNEX 1: List of work equipment (EdT) check points

The checks 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 "Specific verification conditions".

The inspection covered 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 inspection.

For lifting equipment, it includes load tests provided that the necessary conditions for carrying out these tests are met.

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

### Lifting equipment

Permanently installed access • Access	Hydraulic equipment • Hydraulic
to the driver's station(s) • Access to the device	equipment • Connections and
support(s) • Other access for maintenance,	connections • Levels - Pressure •
inspection • Runway, rails •	Filters
Posts, corbels, jib, anchors, fixings • Base, sealing,	
supports • Buffers, shock	<b>Pneumatic equipment • Pneumatic</b>
absorbers • Anchors, mooring, guying • Track grounding	equipment • Connections and
•	connections • Pressure • Filters -
Assemblies, connections,	Exhausts
fixings • Chassis - Carrier - Frame - Structure	• Engine •
- Posts/masts • Mast(s), boom,	<b>Fuel tank - Gas bottle • Protection</b>
counter boom • Drift plates • Rolling elements (tires, tracks,	of moving
rollers, etc.) • Object chasers or equivalent	engine parts • Protection against burns (exhaust, etc.)
device • Stabilizers and their holding devices • Ballasts or counterweights	
• Motor-reducer units •	
Winch • Screw/nut	<b>Driving position(s) • Layout •</b>
systems • Rack and pinion/crown/chain systems • System scissor lifts • Other	Construction,
transmission and coupling devices • Brakes for	fixings, floor • Protection against falls from
movements contributing to lifting • Brakes for horizontal /	a height • Driver protection (head guard, roof, FOPS,
translation / orientation	ROPS, etc.) • Protection against mechanical risks
movements • Other	
brakes (2) • Mobile transmission	• Folding platform • Visibility
devices	(windows, windshield wipers, rearview mirrors, mirror, etc.) • Fire
and their protections • Trim	extinguisher in the cabin or on the aircraft • Seat
adjustment mechanism Hangers • Cables -	and seat belt • Heating - Lighting •
Chains - Straps • Fasteners	Access lock (key, code)
- Fixed points - Wedge box • Drums - Pulleys - Cradles	
• Block - Hook - Safety latch • Fork -	<b>Service organs • Start-up</b>
Bucket - Clamp - Spur - Jib - Grapple • Electromagnet, vacuum gripping (suction	organ • General / workstation /
cups, etc.) • Device	emergency stop organ(s) • Maintained action control organ • Device limiting
linked to power failure • Load support • Cabin, basket, nacelle • Other	use to authorized persons • Troubleshooting or rescue
gripping devices •	station • Remote controls • Other service organs (push buttons, etc.)
<b>Enclosures (boxes, cabinets, housings, etc.) •</b>	
Electrical equipment • Connections and	
connections • Interconnection of metal masses	
	<b>Warning and signaling devices • Signaling devices</b>
	(indicators, displays, etc.) • Warning devices (visual, audible, etc.)
	<b>Display and instructions • Display</b>
	of the maximum useful load (CMU) • Load table - Charts •
	Warnings - Instructions •
	Refer to the devices listed for each
	device (2)
	<b>Energy source management • Separation/</b>
	dissipation devices
	<b>the device • Lighting of the work area and/or road</b>
	traffic

(1) The list is given for information purposes 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 piece of work equipment verified.