

# INSPECTION REPORT



Siemens Gamesa Renewable Energy  
Building Le Colisée, Building A  
10 Avenue de l'Arche  
La Défense The Faubourgs of the Arche  
92419 Courbevoie Cedex

## WORK EQUIPMENT

### PERIODIC GENERAL INSPECTION

| of equipment           | designation              | Brand   | Registration holder // Client Label | Location of verification of employment | Note Observations | Not verified | shutdown recommended |
|------------------------|--------------------------|---------|-------------------------------------|--|-------------------|--------------|----------------------|
| Lifting device lifting | personnel lift suspended | GORACON | E04                                 |  | 0                 |              |                      |

**Intervention Address:**  
WIND OFFSHORE PARK  
  
76400 Fécamp

Mission completed on 17/02/25  
  
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 Number: 2501H0290000018/1000  
Designation: SIEMENS H0290 - FECAMP OFFSHORE WIND FARM (2025) - Controls  
Intervention No.: H0290250100000000533

No observation

Client References:  
Site: FECAMP E04 Elevator for  
for People (Lift)

2.1.3.0 - EDT811213

Agency ENR North  
SOCOTEC POWER SERVICES - 10 Avenue de Thionville - 57140 WOIPPY  
Email: enr@socotec.com

SOCOTEC POWER SERVICES - SAS with a capital of 43,904 euros - 067 704 650 RCS Versailles  
Head office: Mirabeau Building - 5 Frères Montgolfier Square  
Guyancourt - CS 20732 - 78182 Saint Quentin-en-Yvelines Cedex - FRANCE - www.socotec.fr

Auditor: M DE GEA Tanguy  
Number of pages: 4



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

## MISSION COMPLETION REPORT

A provisional report was submitted on site to SIEMENS.

### VERIFICATION TERMS

Accompanied by: SIEMENS TECHNICIAN

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

- by visual examination of accessible or made accessible parts at the request of the inspector ;
- by operational testing ;
- by load testing for lifting equipment.

The list of checkpoints is included in the appendix of this report.

### EQUIPMENT VERIFICATION

#### 1. EQUIPMENT IDENTIFICATION

|                            |                                 |
|----------------------------|---------------------------------|
| Designation                | of Suspended Personnel Elevator |
| Manufacturer / Brand       | GORACON                         |
| Type                       | GWB-450-SWP                     |
| Serial Number              | SL102280                        |
| Client number or reference | E04                             |
| Year of manufacture        | 2023                            |
| Marking                    | CE<br>Marking                   |

#### 2. MAIN EQUIPMENT CHARACTERISTICS

|  |   |
|--|---|
| Weight and position of ballasts<br>of the configuration            | of the tensioning cables for the traction cable and safety cable located at the lower level.<br>suspended and guided by cable in the wind turbine tower   |
| "equipment for gripping or supporting"<br>"of load"                | "of load full-sided cabin"  |
| suspensions  | <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 guidance 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) #GL108164 (2023) ;</li> <li>- Empty mass: 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 secured intermediate platforms and 1 secured terminal platform ;</li> <li>- Control from the cabin console ;</li> <li>- Automatic send and recall function at each tower section ;</li> <li>- Operating hours: 24.23 h ;</li> <li>- Emergency descent time: 0.13 h (limit: 5h)</li> </ul> |
| Maximum Useful Load (MUL) - Capacity<br>Maximum - Chart (Excerpts) | 450 kg / 3 people   |

#### 3. MAIN SAFETY DEVICES PRESENT

|  |  |
|--|--|
| Emergency stop   | Panic buttons of the "fist punch" type with latching in the pushed position (in the cab and at<br>of each tower section) |
| travel limits of the movements of<br>of lifting                                  | and down   |
| other stroke limiters on the<br>lifting movements (stroke, over-<br>stroke, ...) | obstacle detection during ascent   |
| monitoring of efforts generated by the<br>load                                   | Indicator (red light in cabin) and load limiter  |

|   |   |
|---|---|
| Suspension shock detector and system associated parachute   | with automatic mechanical shutdown system and overspeed detection   |
| obstacle presence detection during descent  | electromechanical detection with movement stop and parachute deployment   |
| and overspeed descent of the payload  | with an automatic mechanical shutdown system for overspeed detection  |
| i and a fall protection attachment device and a fall protection attachment device individual fall protection device ("extincting lifeline") | 3 dedicated anchor points in the cabin  |
| control device of the device operation at shutdown of an access control device  | detection of the cabin door closure   |
| Other safety device(s)  | <ul style="list-style-type: none"> <li>- Manual emergency descent by releasing the winch motor brake;</li> <li>- Manual override lever on the winch motor for rearming the parachute device in case of failure;</li> <li>- Key trapped in the cabin for unlocking access gates;</li> <li>- Emergency lighting on battery in cabin.</li> </ul> |

#### 4. SPECIAL VERIFICATION CONDITIONS

|   |   |
|---|---|
| "Regulation referred to"  | Order of 01/03/2004 (amended) and article R4323-23 of the Labor Code  |
| Regulatory periodicity (months)   | 6   |
| Frequency retained by the client (months)   | 6   |
| Conditions for verification implementation  | Equipment in service, functional tests performed  |
| Time required for verification  | "and time to make available the adapted device for verification"  |
| "necessary for verification"  | "made available to the device suitable for verification"  |
| Accompaniment necessary for verification Personnel ensuring the operation and maneuvering of the present device |   |
| Charges and their handling means required for verification  | Fees and handling means made available present  |
| secured testing area necessary for the verification   | conditions for verification with adapted security   |
| means of access necessary for verification  | "present means of access adapted for verification"  |
| presented document(s)   | 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 CHARGED TESTS

|   |   |
|---|---|
| of test charges made available available (kg)                                 | 591 kg (mass 15 kg + technicians)   |
| test load configuration(s)<br>(mass, range, angle, muffling, stabilizers,...) | <p>Tests of all mechanisms at the CMU (450 kg);</p> <p>Test of setting and maintaining the load at the CMU (450 kg) for 10 minutes;</p> <p>and test of the parachute device at the CMU (450 kg) ;</p> <p>and load limiter tests following the manufacturer's recommendations based on the email from Mr. Frederic Jostarndt, Goracon's technical service, dated 29/11/2023: cabin elevation possible at a load of 561 kg; cabin elevation impossible at a load of 591 kg.</p> |

#### 6. VERIFICATION RESULT

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

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

The inspections carried out by SOCOTEC as a third-party organization allow to meet the requirements regulatory requirements referenced and recalled for each piece of equipment in the chapter "Special Verification Conditions" ».

The verification covered the state of conservation and operation of the following points (1), within the limit of the of the equipment and devices it is provided with during verification.

For lifting equipment, it includes load testing to the extent that the necessary conditions for implementation of these tests are met.

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

### Lifting equipment

|   |  |
|---|--|
| with permanently installed access                             | Hydraulic equipment  |
| ? access to the control post(s)                               | ? Hydraulic equipment  |
| ? access to the device support(s)                             | ? Connections and fittings   |
| ? Other access for maintenance, verification                  | ? Levels - Pressure  |
| - Running path - Supports                                     | ? Filters  |
| ? Running path, rails   | Pneumatic Equipment  |
| ? Posts, corbels, gallows, anchors, fasteners                 | ? Pneumatic equipment  |
| ? Sills, seating, supports                                    | ? Connections and fittings   |
| ? Armrests, shock absorbers                                   | ? Pressure   |
| ? Mountings, moorings, stays                                  | ? Filters - Exhausts   |
| ? Grounding of the track                                      | Thermal Equipment  |
| Frame - Framework - Structure - Carrier                       | ? Engine   |
| ? Assemblies, connections, fastenings                         | ? Fuel tank ? Gas bottle   |
| ? Frames - Mounts - Framework ? Structure ? Masts/posts       | ? Protection of moving engine parts                                      |
| ? Mast(s), boom, counter boom                                 | ? Protection against burns (exhaust, ?)                                  |
| ? Diving planes   | driving post(s)  |
| ? Rolling elements (pneumatic, tracks, rollers ?)             | ? Installation   |
| ? Object deflectors or equivalent device                      | ? Constitution, fixings, floor   |
| ? Stabilizers and their retaining devices                     | ? Fall protection  |
| ? Weights or counterweights                                   | ? Operator protection (head guard, roof, FOPS, ROPS, ...)                |
| Mechanisms  | ? Protection against mechanical hazards                                  |
| ? Motor reducer groups  | ? Folding platform   |
| ? Winch   | ? Visibility (glazing, windshield wipers, rearview mirrors, mirror, ...) |
| ? Screw/nut systems   | ? Fire extinguisher in the cabin or on the device                        |
| ? Sprocket-chain/crown/chain systems                          | ? Seat and safety belt   |
| ? Scissor(s) system   | ? Heating - Lighting   |
| ? Other transmission and coupling organs                      | ? Access restriction (key, code)   |
| ? Brakes for movements contributing to lifting                | service organs   |
| ? Brakes for horizontal movements / translation / orientation | ? Start-up organ   |
| ? Other brakes (2)  | ? Emergency stop device / at the workstation                             |
| ? Mobile transmission organs and their protections            | ? Control device with maintained action                                  |
| ? Seat adjustment mechanism                                   | ? Device limiting use to authorized persons                              |
| Hangers - Drums - Pulleys                                     | ? Troubleshooting or rescue station                                      |
| ? Cables ? Chains ? Slings                                    | ? Remote controls  |
| ? Attachments ? Fixed points ? Socket                         | ? Other service controls (push buttons, ?)                               |
| ? Drums ? Pulleys ? Hubs                                      | alarm and signaling devices  |
| Gripping devices and load support                             | ? Signaling devices (indicators, displays, ?)                            |
| ? Glove ? Hook ? Safety latch                                 | ? Alert devices (visual, audible, ?)                                     |
| ? Fork ? Bucket ? Clamp ? Spur ? Gallows ? Hook               | Display and instructions   |
| ? Electromagnet, vacuum gripping (suction cups, ?)            | ? Display of the maximum useful load (MUL)                               |
| ? Device related to power failure                             | ? Load Chart - Placards  |
| ? Charging support  | ? Warnings - Instructions  |
| ? Compartment, basket, pod                                    | ? Safety devices   |
| ? Other gripping devices                                      | ? Refer to the safety devices listed for each device (2)                 |
| Electrical equipment  | Energy source management   |
| ? Enclosures (cabinets, boxes, cases, ?)                      | ? Separation/dissipation devices   |
| ? Electrical equipment  | Integrated lighting  |
| ? Connections and bonds                                       | ? Lighting of the work area and/or road traffic                          |
| ? Interconnection of metal masses                             |  |

(1) The list is provided for information purposes and cannot be considered as an exhaustive list of points of verification

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