

AUDIT REPORT



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

WORK EQUIPMENT

Periodic general inspection

Type of equipment	Designation	Make	License Plate Bearer // Customer Label	Inspection Location Employment	Number of Observations	Unverified	Recommended shutdown
Hoisting equipment	Suspended personnel elevator	GORACON	E04		"0"		

Intervention address: OFFSHORE WIND
FARM. 76400 FECAMP

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



No observation

Client References:

Site: FECAMP E04 ELEVATOR FOR PERSONS (LIFT)

2.1.3.0 - EDT811213

Northern ENR Agency

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Checker: M DE GEA Tanguy Number of pages:

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

END OF MISSION REPORT

A provisional report was handed over on site to SIEMENS.

AUDIT CONDITIONS

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 operating tests; - by load tests by load tests for lifting equipment. The list of inspection points is shown in the appendix to this report.

EQUIPMENT CHECKING

1. EQUIPMENT IDENTIFICATION

Designation	Suspended personnel elevator
Builder / Make	GORACON
Type	GWB-450-SWP
Serial number	SL102280
"Customer number or reference"	E04
Year of manufacture	2023
Marking	CE

2. MAIN CHARACTERISTICS OF THE EQUIPMENT

"Weight and position of the ballasts"	Ballasts for tensioning 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
Suspension	- 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 characteristics	- GORACON G-TRAC winch (CMU 800 kg) GT107771 (2023) ; "- GORACON G-LOCK emergency arrestor device (CMU 800 kg) #GL108164 (2023) ;" - Unloaded weight: 259 kg ; - Lifting height: 80 m ; "- Elevation 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 the control console in the cabin;" "- Automatic send and recall function at each control tower section;" - Operating hours: 24.23 h; "- Emergency descent time: 0.13 h (limit: 5h)."
Maximum Useful Load (MUL) - Maximum Capacity - Chart (Excerpts)	990 lbs / 3 persons

3. MAIN SAFETY DEVICES PRESENT

Emergency stop	Panic bolt buttons with latching in depressed position (in cab and at each tower section)
Limit switches for lifting movements	Up and down
Other travel limiters on lifting movements (over-travel, under-travel, ...)	Detection of hindrance to ascent
"Monitoring of load-generated efforts"	Indicator (red light in the driver's cabin) and load limiter

Rope sway detector and associated emergency arrestor system	With automatic mechanical emergency stop system and overspeed detection
Obstruction detection during descent	Electromechanical detection with movement stop and deployment of the emergency arrestor
Excessive descent speed of the load	With automatic mechanical stop system for overspeed detection
Device for attaching individual fall protection (outside of "lifeline")	3 dedicated anchor points in the cabin
Device for controlling the operation of the device in response to the closure of an access control device	Detection of closure of the cabin door
Other safety device(s)	- Manual emergency descent by releasing the brake on the winch motor; "- Manual override crank on the winch motor for rearming the emergency arrestor device in case of failure;" "- Cabin lockout key for unlocking access hatches;" "- Battery-powered emergency lighting in the cabin."

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
Periodicity retained by the client (months)	6
Conditions for Carrying Out the Audit	Equipment in service, operating tests carried out
Time required for verification	Time required to make available the equipment adapted for verification
"Documents required for verification"	"Documents made available to the apparatus adapted for verification"
"Accompaniment necessary for verification Personnel ensuring the operation and maneuvering of the present apparatus"	
Loads and their handling means necessary for verification	Loads and handling means made available on site
Secure test area necessary for verification	Safety requirements adapted to verification
Means of access necessary for verification	Means of access present adapted for verification
Document(s) presented	Installation instructions (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 PERFORMING LOAD TESTS

Mass of test loads made available (kg)	591 kg (15 kg masses + technicians)
Load test configuration(s) (mass, range, angle, shrouding, stabilizers,...)	Testing of all mechanisms at the CMU (450 kg); "Testing of setting and maintaining the load at rest at the CMU (450 kg) for 10 min;" "Testing of the emergency arrestor at the CMU (450 kg);" "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: rise in cab possible at a load of 561 kg; rise in cab impossible at a load of 591 kg.

6. RESULT OF THE CHECK

The checks carried out within the limits of this mission did not reveal any anomaly or defect.

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 focused on the condition "of preservation and operation of the following points (1), within the limits of the nature of the work equipment and" "and the devices it is equipped with during verification. For hoisting devices, 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 conformity status of the work equipment.

Hoisting equipment

Installed home access ? Access to the control post(s) ? Access to the device support(s) ? Other access for maintenance, verification Roller track - Supports ? Roller track, rails ? Posts, corbels, crane, anchors, fasteners ? Base, sealing, supports ? Buffers, shock absorbers ? Anchors, mooring, stay ? Earthing of the track Frame - Structure - Chassis - Carrier ? Assemblies, connections, fastenings ? Frame - Carrier - Chassis ? Structure ? Masts/posts ? Mast(s), boom, counter boom ? Skid plates ? Rolling elements (pneumatic, tracks, rollers ...) ? Object deflectors or equivalent device ? Stabilizers and their retaining devices ? Ballasts or counterbalances Mechanisms ? Motor gearboxes ? Winch ? Screw/nut systems ? Sprocket-chain/crown/chain systems ? Scissor system(s) ? Other transmission components and couplings ? Brakes for lifting movements ? Brakes for horizontal / translation / orientation movements ? Others brakes (2) ? Mobile transmission components and their protections ? Tilt adjustment mechanism Hangers - Drums - Pulleys ? Cables ? Chains ? Slings ? Fasteners ? Fixed Points ? Coin Box ? Drums ? Pulleys ? Blocks Lifting and load support devices ? Mitten ? Hook ? Safety latch ? Fork ? Bucket ? Clamp ? Spur ? Crane - Grab ? Electromagnet, vacuum gripping (suction cups, ?) ? Device related to power failure ? Load support ? Cabin, basket, cradle ? 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 couplings ? Pressure ? Filters - Exhausts Thermal equipment ? Engine ? Fuel tank ? Gas bottle ? Protection of engine moving parts ? Protection against burns (exhaust, ?) Driving post(s) ? Installation ? Composition, fastenings, floor ? Fall protection ? Driver protection (head guard, roof, FOPS, ROPS, ...) ? Protection against mechanical hazards ? Folding platform ? Visibility (glazing, windshield wipers, rearview mirrors, mirror, ...) ? Fire extinguisher in the cabin or on the device ? Seat and safety belt ? Heating - Lighting ? Access lockout (key, code) Service instruments ? Starting instrument ? General/Workstation/Emergency stop instrument(s) ? Control unit ? Sustained action control unit ? Device limiting use to authorized persons ? Maintenance or rescue station ? Controls "Remote control ? Other service organs (pushbuttons, ?)" "Warning and signaling devices" ? Signaling devices (lights, displays, ?) ? Warning devices (visual, audible, ?) Display and operating instructions ? Display of maximum useful load (CMU) ? Load table - Charts ? Warnings - Instructions Safety devices ? Refer to the devices listed for each appliance (2) Energy Source Management ? Separation/Dissipation Devices Integrated lighting of the device ? Lighting of the work area and/or road traffic
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(1) The list is provided for information purposes only and cannot be considered as an exhaustive list of points for check

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