

AUDIT REPORT



SIEMENS GAMESA RENEWABLE ENERGY
Le Colisée Building, 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 Footing	Number of Observations	Unverified	Recommended shutdown
Hoisting equipment	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
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 PEOPLE (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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Accreditation SOCOTEC Equipment n°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.

VERIFICATION ARRANGEMENTS

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 for for hoisting equipment. The list of inspection points is shown in the appendix to this report.

EQUIPMENT CHECK

1. EQUIPMENT IDENTIFICATION

Designation	Suspended Personnel Elevator
Builder / Make	GORACON
Type	GWB-450-SWP
Serial number	SL102280
"Number or customer reference"	E04
Year of manufacture	2023
Marking	CE

2. MAIN CHARACTERISTICS OF THE EQUIPMENT

Weight and position of 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	Enclosure with solid walls
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-induced stresses	Indicator (red light in the driver's cabin) and load limiter

Rope brake detector and associated emergency arrestor system	With automatic mechanical stop system and overspeed detection
Obstruction detection during descent	Electromechanical detection with movement stop and deployment of the emergency arrestor
Excessive descent rate of the load	With automatic mechanical shutdown system for overspeed detection
Device for attaching individual fall protection (outside "lifeline")	3 dedicated anchor points in the cabin
Servo mechanism for operating the device upon closure of an access control device	Detection of closure of the cabin door
Other safety device(s)	<p>- Manual emergency descent by releasing the brake on the winch motor;</p> <p>"- Manual override crank on the winch motor for rearming the emergency arrestor device in case of failure;"</p> <p>"- Detent key in the cabin for unlocking access hatches;"</p> <p>"- Emergency lighting on battery in the cabin."</p>

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 Check	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 suitable 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 required for verification	Safety requirements adapted to verification
Means of access necessary for verification	Means of access present and 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,...)	<p>Testing of all mechanisms at the CMU (450 kg);</p> <p>Testing of load application and hold at the CMU (450 kg) for 10 min;</p> <p>Testing of the emergency arrestor 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: rise in cab possible at a load of 561 kg; rise in the cabin rise 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 anomaly or defect.

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

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

Hoisting equipment

Installed access at home ? Access to the control post(s) ? Access to the device support(s) ? Other access for maintenance, verification	Hydraulic equipment ? Hydraulic equipment ? Connections and fittings ? Levels - Pressure ? Filters
Roller track - Supports ? Roller track, rails ? Posts, corbels, galleys, anchors, fasteners ? Base, sealing, supports ? Buffers, shock absorbers ? Anchors, mooring, stay ? Earthing of the track	Pneumatic equipment ? Pneumatic equipment ? Connections and couplings ? Pressure ? Filters - Exhausts
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 holders or equivalent device ? Stabilizers and their retaining devices ? Ballasts or counterbalances	Thermal equipment ? Engine ? Fuel tank ? Gas bottle ? Protection of engine moving parts ? Protection against burns (exhaust, ?)
Mechanisms ? Motor reducer groups ? Winch ? Screw/nut systems ? Sprocket-chain/crown/chain systems ? Scissor system(s) ? Other transmission organs and couplings ? Brakes for lifting movements ? Brakes for horizontal / translation / orientation movements ? Others brakes (2) ? Mobile transmission components and their protections ? Tilting adjustment mechanism	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)
Hangers - Drums - Pulleys ? Cables ? Chains ? Slings ? Fasteners ? Fixed Points ? Coin Box ? Drums ? Pulleys ? Blocks	Service instruments ? Starting unit ? General/Workstation/Emergency stop instrument(s) ? Control unit ? Sustained action control unit ? Device limiting use to authorized persons ? Repair or rescue station ? Controls ? Remote control ? Other service organs (pushbuttons, ...)
Gripping devices and load supports ? Mitten ? Hook ? Safety latch ? Fork ? Bucket ? Clamp ? Spur ? Galleys ? Grab hook ? Electromagnet, vacuum gripping (suction cups, ...) ? Device related to power failure ? Load support ? Cabin, basket, cradle ? Other gripping devices	"Warning and signaling devices" ? Signaling devices (lights, displays, ?) ? Warning devices (visual, audible, ?)
Electrical equipment ? Enclosures (cabinets, panels, boxes, ...) ? Electrical equipment ? Connections and connections ? Interconnection of metal masses	Display and operating instructions ? Display of maximum useful load (MUL) ? 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

(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 description of each verified work equipment.