15. SII-Finish work (yearly)

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Wind turbine type

Read the full document before you start to do work.

Send questions or concerns about the document to Vestas Wind Systems A/S.

Wind turbine type	Mk version
EnVentus™	Mk 0A

Change description

Description of changes
Updated the version of the document.

Table of Contents

1 Abbreviations and technical terms

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Table 1.1: Abbreviations

Abbreviation	Explanation
ECC	Energy control coordinator
LOTO	Lockout-tagout
PPE	Personal protective equipment
SDS	Safety data sheet
SPRA	Standardised procedure risk assessment

Table 1.2: Explanation of terms

Term	Explanation
None	

2 Referenced documentation

2.1 Safety documents

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Table 2.1: Safety documents

Document no.	Title
0001-0410	Personal protective equipment sheets
0004-4159	Standardised procedure risk assessment (SPRA)
0092-3874	Rotor locking system
0092-3919	Safety regulations for operators and technicians
0094-2383	Mode selector system
	Relevant SDS for the chemicals used in this document
	Appropriate LOTO document

2.2 Reference documents

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Table 2.2: Reference documents

Document no.	Title
920098	Torque wrench settings
960501	Bolt connections
0001-1995	User guide, menu 1–9

Document no.	Title
0001-1996	Service guide, menu 11–19
0001-1997	Service guide, menu 21–>

Unless it is specified differently, see 920098 ‘Torque wrench settings’ for information about bolt types and bolt lubrication, and see 960501 ‘Bolt connections’ for information about torque values.

3 Purpose

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The purpose of this document is to give the instructions for how to finish the work of the yearly inspection.

4 Note

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This section is not relevant to this procedure.

5 Finish work

5.1 To prepare the wind turbine for start-up

0027450488

5.1.1 To clean the cabinets, the covers, and the other surfaces

0011412232

Risk of fall from height! SPRA ID No. 1.02

- Make sure that there are no persons in the areas where overhead work is done.
- Make sure that all platform hatches are closed when they are not in use.
- Obey the rules for work at height. Refer to local requirements.
- Use work positioning rope and fall arrest lanyard in combination to restrict movement.
- Use the necessary PPE that is given in PPE sheet 8. The PPE must be attached to approved anchor points, slides, or cables.

1 Clean the components that follow for grease spots and finger marks:

- Electrical cabinets
- Covers
- Gearbox
- Generator
- Generator cooler

Risk of slip and fall! SPRA ID No. 23.02

- Use fluid containers to collect fluids and avoid spillage on the floor.
- Clean up spilled fluids immediately.
- Remove cleaning materials from the wind turbine.
- Examine the system for possible fluid leakages.

2 Do a check for the oil waste, loose bolts, tools, and such like before you go out of the nacelle.

5.1.2 To clean the checker plates and the other surfaces

0029113986

Risk of slip and fall! SPRA ID No. 23.02

- Use fluid containers to collect fluids and avoid spillage on the floor.
- Clean up spilled fluids immediately.
- Remove cleaning materials from the wind turbine.
- Examine the system for possible fluid leakages.

1 Clean the components that follow of grease:

- Checker plates
- Members
- Crane rails
- Fibreglass bottom below the main shaft and brush

2 Do a check for oil waste, tools, and such like before you go out of the nacelle.

5.1.3 To clean the tower basement and tower from inside

0011412230

Risk of slip and fall! SPRA ID No. 23.02

- Use fluid containers to collect fluids and avoid spillage on the floor.
- Clean up spilled fluids immediately.
- Remove cleaning materials from the wind turbine.
- Examine the system for possible fluid leakages.

1 Use a brush to clean or sweep the components that follow:

- Tower basement
- All flanges
- Platforms
- Installations
- Tower ladder
- Electrical cabinets

2 Do a check for the oil waste, loose bolts, tools, and such like before you go out of the tower.

5.1.4 Lockout-tagout end

0011426243

Risk of exposure to live circuits! SPRA ID No. 3.28

- Do not remove LOTO devices or restore energy if the work area is not cleared of non-essential items (for example, tools, screws, washers, cable cores) which may have been accidentally dropped during work.
- Always perform lockout before work and test before touch of wires, terminals, or any circuit parts.
- Do an inspection of the work area to make sure that the non-essential items are removed.
- These items may cause severe arc blasts, short circuits, and injuries if they are not removed before energisation.

Energise again or restore power to the part of the wind turbine where you have done the work. Obey the LOTO procedure instruction referred to in ‘Safety documents’ or the LOTO instruction supplied by the site-ECC.

5.2 To start-up production

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1 Exit SERVICE mode and set the wind turbine to PRODUCTION mode.

2 Make sure that the menus **1: OVERVIEW**, **2: PRODUCTION**, **3: HOUR COUNTERS**, and **5: ELECTRICAL DATA** have the correct values.

3 Clear the warning log in the menu **7: WARNING LOG**.

4 Leave the wind turbine in the menu **1: OVERVIEW**.

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5 Turn the Mode Selector switch to position 2 to start the wind turbine (operation and full remote control).

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6 Turn the Mode Selector switch to position 1 to start the automatic operation of the wind turbine and leave the wind turbine.
