

Technical Report

2023-04-30



Electro Volt Technician: Jan Meyer

Equipment: Wind Turbines #456, #789, #123

Location: Wind Farm Sontheim

Task: Safety inspection

Process:**Technical Report: Turbine Inspection**

Introduction: This report provides a detailed account of the technical inspection carried out on three turbines at the site. The inspection included a safety evaluation, checking for damages, and maintenance tasks on the turbines.

Site Visit: The site required a 1.5-hour drive to reach. Before conducting any work, a safety inspection was conducted by observing three turbines from the ground level. No issues were detected during the observation.

Turbine #456 Inspection: Upon beginning inspection on turbine #456, damage was found on the blades, specifically erosion on two blades. A superficial repair involving resin was performed on the affected blade.

Turbine #789 Inspection: Inspection on turbine #789 involved checking the gearbox and lubrication. A leak and low lubrication were found. The oil on the rotor of turbine #789 was changed, and the leak was stopped using a sealing patch.

Turbine #123 Inspection: Inspection on turbine #123 involved examining the generator and electrical components. A malfunctioning sensor was detected, and it was corrected through a calibration procedure.

General Turbine Review: A general review was carried out on all the turbines, including a control system test and recalibration for optimal performance. Calibration of energy grid connection with turbines was also started.

Weather Interruption: Heavy rain and lightning during maintenance caused difficulties, and the calibration of energy grid systems was stopped for safety reasons. The rescheduled date for the calibration of energy grid systems will be 4.4.2023.

Conclusion: The inspection and maintenance tasks performed on the turbines at the site were successful after encountering some challenges due to adverse weather conditions. The turbines were tested for defects, repaired, and maintained for optimal performance.

Signature:

Supervisor:

Technician: