

# WIND TURBINE INSPECTION CHECKLIST

## GENERAL INFORMATION

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Location: \_\_\_\_\_

### Tower and Structure

- Yes  No — Tower surface shows no signs of corrosion or structural damage
- Yes  No — Bolts and welds are secure and intact
- Yes  No — Access ladders, platforms, and safety rails are stable and compliant

### Blades and Nacelle

- Yes  No — Blades are free from cracks, chips, and erosion
- Yes  No — Blade pitch control system is functioning correctly
- Yes  No — Nacelle covers are sealed and secure

### Electrical System

- Yes  No — Wiring and grounding systems are properly insulated and intact
- Yes  No — Electrical panels and inverters are labeled and weather-sealed
- Yes  No — Surge protection systems are in place and operational

## **Gearbox and Generator**

- Yes  No — Oil levels and lubricant condition are acceptable
- Yes  No — No unusual vibrations or noises during operation
- Yes  No — Generator components are clean and show no signs of wear

## **Braking and Control Systems**

- Yes  No — Mechanical and hydraulic brake systems are functional
- Yes  No — Control software and SCADA systems are updated and error-free
- Yes  No — Emergency stop mechanisms are tested and operational

## **Foundation and Grounding**

- Yes  No — Foundation is free from cracks or water intrusion
- Yes  No — Grounding system is tested and documented
- Yes  No — Drainage around the base is sufficient

## **Safety Equipment**

- Yes  No — Fire suppression systems (if installed) are maintained
- Yes  No — Climb assist and fall arrest systems are intact and certified
- Yes  No — Signage and warning labels are posted and legible

## Environmental Conditions

- Yes  No — Wildlife deterrents are installed and functional
- Yes  No — No oil or fluid leaks present in or around the tower
- Yes  No — Access roads and site conditions are safe for operation

## FINAL NOTES

Inspector Comments:

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Inspector Name: \_\_\_\_\_

Inspector Email: \_\_\_\_\_

Inspection Date: \_\_\_\_\_

I confirm this inspection was completed accurately

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