

Wind Turbine Inspection Checklist Template

Pre-Inspection Checks

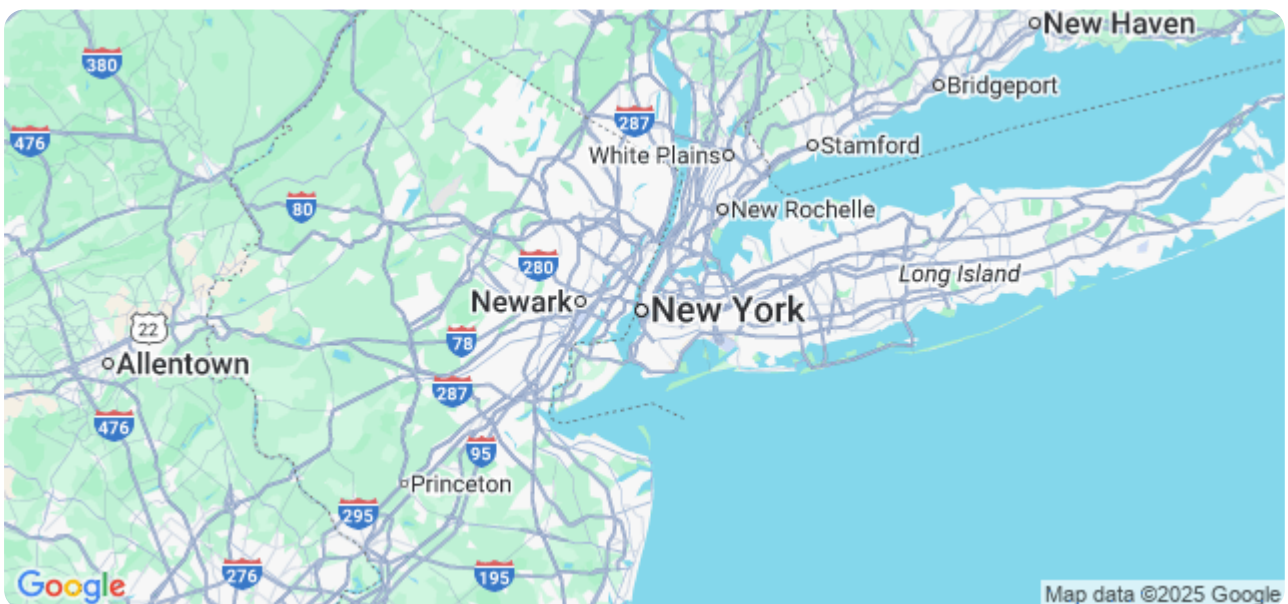
Initial assessments and safety preparations before detailed inspection.

Inspection Date

Inspection Start Time

Turbine Location (GPS Coordinates)

 [Set My Current Location](#)



Turbine ID

Enter a number...

Weather Conditions

- Clear
- Cloudy
- Rain
- Windy
- Snow

Inspection Type

- Routine
- Reactive
- Scheduled Maintenance

Inspector Name

Write something...

Tower Inspection

Visual and structural assessment of the tower itself.

Tower Height (meters)

Enter a number...


Visual Condition of Tower Structure

- Excellent
- Good
- Fair
- Poor

Description of any Corrosion Observed

Write something...

Upload Photos of Tower Structure

 Upload File

Condition of Access Ladders/Platforms

- Intact
- Minor Damage
- Significant Damage
- Unsafe

Number of cracks observed (if any)

Enter a number...

Nacelle Inspection

Inspection of the nacelle, housing the gearbox and generator.

Gearbox Oil Temperature (°C)

Enter a number...

Generator Bearing Temperature (°C)

Enter a number...

Hydraulic Pressure (PSI)

Enter a number...

Gearbox Oil Condition

- Excellent
- Good
- Fair
- Poor

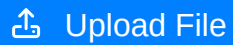
Generator Insulation Resistance (Megohms)

- Above Threshold
- Below Threshold
- Not Tested

Any Unusual Noises Observed?

Write something...

Nacelle Photos (if any issues)

 Upload File

Last Gearbox Oil Change Date

Enter date...

Blade Inspection

Detailed examination of each turbine blade for damage and wear.

Blade Length (meters)

Enter a number...

Leading Edge Damage?

- None
- Minor Erosion
- Moderate Erosion
- Severe Erosion
- Cracking
- Delamination

Trailing Edge Condition?

- Clean
- Minor Contamination
- Significant Contamination
- Damage

Description of Any Blade Damage

Write something...

Blade Damage Photos

 Upload File

Number of Cracks Observed (if any)

Enter a number...

Overall Blade Condition

- Excellent
- Good
- Fair
- Poor

Gearbox Inspection

Assessment of the gearbox condition and functionality.

Gear Oil Level (mm)

Enter a number...

Gear Oil Temperature (°C)

Enter a number...

Gear Oil Condition

- Excellent
- Good
- Fair
- Poor

Observations (Noise, Vibration, etc.)

Write something...

Leaks Detected?

- Oil
- Coolant
- None

Last Gear Oil Change Date

Enter date...

Gear Mesh Clearance (mm)

Enter a number...

Generator Inspection

Inspection of the generator for efficiency and anomalies.

Generator Output Voltage (V)

Enter a number...

Generator Output Current (A)

Enter a number...

Generator Speed (RPM)

Enter a number...

Generator Temperature (°C)

Enter a number...

Bearing Noise Level

- Normal
- Slight Hum
- Moderate Rumble
- Loud Noise


Cooling System Performance

- Excellent
- Good
- Fair
- Poor

Any unusual noises or vibrations observed?

Write something...

Generator Thermal Image (if applicable)

 Upload File

Hydraulic System Inspection

Checking the hydraulic systems for leaks and proper operation.

Hydraulic Fluid Level (inches)

Enter a number...

Hydraulic Fluid Temperature (°C)

Enter a number...

Fluid Condition

- Excellent
- Good
- Fair
- Poor

Leaks Detected?

- Reservoir
- Cylinder
- Hoses
- Fittings
- No Leaks

Pump Noise Level

- Normal
- Slightly Elevated
- Elevated
- Abnormal

Additional Comments/Observations

Write something...

Electrical System Inspection

Examination of electrical components and wiring.

Generator Voltage (V)

Enter a number...

Cable Insulation Resistance (M Ω)

Enter a number...

Condition of Wiring Harnesses

- Excellent
- Good
- Fair
- Poor

Signs of Electrical Damage

- Burn Marks
- Arcing
- Corrosion
- Damaged Insulation
- None

Detailed observations about electrical components

Write something...

Last electrical service date

Enter date...

Yaw and Pitch Systems Inspection

Assessment of the yaw and pitch control mechanisms.

Yaw Rate (degrees/second)

Enter a number...

Pitch Angle (degrees)

Enter a number...

Yaw Motor Operation

- Normal
- Audible Noise
- Binding
- Malfunction

Pitch System Response

- Responsive
- Slow
- Erratic
- No Response

Hydraulic Pressure (psi)

Enter a number...

Notes on Yaw/Pitch System Behavior

Write something...

Pitch actuator leak detected?

- Yes
- No

Safety Systems Inspection

Verification of emergency shutdown and safety mechanisms.

Emergency Stop Lever Test - Activation Time (seconds)

Enter a number...

Brake System Functionality

- Nominal
- Minor Issue
- Major Issue

Lightning Protection System Inspection

- Visual Inspection Complete
- Further Investigation Required

Fire Suppression System Pressure (PSI)

Enter a number...

Safety Interlocks Tested

- Blade Access
- Nacelle Access
- Service Platform

Last Safety System Certification Date

Enter date...

Foundation & Grounding Inspection

Check the turbine's foundation for stability and grounding integrity.

Foundation Settlement (mm)

Enter a number...

Ground Resistance (Ohms)

Enter a number...

Visual Condition of Concrete

- Excellent
- Good
- Fair
- Poor

Signs of Ground Movement

- Cracks
- Shifting
- Subsidence
- None Observed

Detailed Observations of Foundation

Write something...

Last Grounding System Test Date

Enter date...

Post-Inspection & Recommendations

Record findings and suggest maintenance actions.

Summary of Findings

Write something...

Overall Condition Rating (1-10)

Enter a number...

Required Actions (Select all that apply)

- Minor Repairs
- Major Repairs
- Lubrication
- Component Replacement
- Further Investigation
- No Action Required

Date of Next Scheduled Inspection

Enter date...

Recommended Next Steps

Write something...

Inspector Signature

Inspector Name

Write something...