

Wind Turbine Maintenance Checklist Template

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Pre-Operation Inspection

Checks performed before each operational period to ensure basic functionality and safety.

Inspection Date

Enter date...

Inspection Start Time

Enter time...



Turbine Operating Hours Since Last Inspection

Enter a number...

Weather Conditions

- Clear
- Cloudy
- Rainy
- Windy
- Snowy

Turbine Status

- Operational
- Degraded
- Offline

Inspector Signature

Ambient Temperature (°C)

Enter a number...

Blade Inspection

Detailed examination of blade condition, including erosion, cracks, and leading edge protection.

Blade Serial Number

Enter a number...

Erosion Assessment (overall)

Write something...

Crack Detection - Description (if any)

Write something...

Leading Edge Damage Types

- Abrasion
- Impact
- Delamination
- Chipping
- None

Leading Edge Protection Thickness (mm)

Enter a number...

Ice Detection and Mitigation Notes

Write something...

Blade Image (Overall)

 Upload File

Blade Condition - Overall Assessment

- Excellent
- Good
- Fair
- Poor

Nacelle Inspection

Inspection of gearbox, generator, bearings, and associated components within the nacelle.

Gearbox Oil Level

Enter a number...

Gearbox Oil Condition Notes

Write something...

Generator Bearing Temperature (°C)

Enter a number...

Generator Bearing Vibration (mm/s)

Enter a number...

Generator Bearing Noise Level

- Normal
- Slightly Elevated
- Elevated
- Abnormal

Last Generator Bearing Replacement Date

Enter date...

Any unusual noises or observations?

Write something...

Gearbox Oil Sample (optional)

 Upload File

Tower Inspection

Examination of tower structure, welds, and lightning protection system.

Tower Height (meters)

Enter a number...

Corrosion Observed?

Yes

No

Description of Corrosion (if any)

Write something...

Lightning Strike Damage (if any)

Welds Condition

 Good Fair Poor

Notes on Welds Condition

Last Paint/Coating Application Date

Tower Photos (Optional)

Yaw System Maintenance

Inspection and lubrication of the yaw system, ensuring proper rotation and alignment.

Yaw Bearing Temperature (°C)

Yaw Motor Current (Amps)

Enter a number...

Yaw Speed (RPM)

Enter a number...

Gear Oil Condition

- Excellent
- Good
- Fair
- Poor

Notes on Gearbox Sound/Noise

Write something...

Last Gear Oil Change Date

Enter date...

Observed Issues

- Excessive Noise
- Slow Rotation
- Vibration
- Fluid Leakage
- None

Technician Signature

Pitch System Maintenance

Maintenance and testing of the pitch system, verifying blade angle control.

Pitch Motor Current (Amps)

Pitch Bearing Temperature (°C)

Pitch Brake Functionality

- Functional
- Needs Adjustment
- Faulty

Last Hydraulic Fluid Change (if applicable)

Enter date...

Any Unusual Noises or Vibrations?

Write something...

Pitch Angle Sensor Calibration Status

- Within Tolerance
- Needs Adjustment
- Out of Tolerance

Time of Pitch System Test

Enter time...

Hydraulic System Checks

Inspection of hydraulic fluid levels, lines, and components (if applicable).

Reservoir Fluid Level (inches)

Hydraulic Pressure (PSI)

Fluid Condition (Visual Inspection)

- Good
- Cloudy
- Contaminated
- Foamy

Filter Pressure Drop (PSI)

Last Hydraulic Fluid Change Date

Notes/Observations

Electrical System Checks

Testing of wiring, connectors, transformers, and other electrical components.

Generator Voltage (V)

Transformer Oil Temperature (°C)

Ground Resistance (Ω)

Condition of Wiring Harnesses

- Excellent
- Good
- Fair
- Poor

Electrical Issues Observed

- Loose Connections
- Corrosion
- Overheating
- Arcing
- None

Detailed Notes on Electrical System

Write something...

Date of Last Electrical Test

Enter date...

Lubrication & Greasing

Schedule lubrication of all bearings and moving parts.

Last Lubrication Date

Enter date...

Gearbox Oil Level (mm)

Enter a number...

Pitch Bearing Grease Quantity (grams)

Enter a number...

Grease Type

- Lithium Grease
- Calcium Sulfonate Grease
- Polyurea Grease

Lubricant Batch Number

Write something...

Yaw Bearing Grease Quantity (grams)

Enter a number...

Notes on Lubrication

Write something...

Performance Monitoring

Review of turbine performance data, including power output and efficiency.

Average Power Output (MW)

Availability (%)

Capacity Factor (%)

Wind Speed (m/s)

Date of Performance Recording

Time of Performance Recording

Enter time...

Notes/Observations Regarding Performance

Write something...