Wind Power Plant Shift Handover Report

Date: July 9, 2024

Shift: Morning

Prepared by: John Doe

Approved by: Jane Smith

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Shift Summary and Operational Status

Overview of Shift Activities:

- Conducted routine inspections of all turbines.
- Monitored power production and adjusted settings for optimal performance.
- Addressed minor technical issues in turbines 3 and 7.

Key Operational Highlights:

- Achieved 98% turbine availability.
- Total power generated: 150 MW.
- No major incidents reported.

Weather Conditions:

- Average wind speed: 12 m/s.
- Clear skies, no precipitation.

Turbine Status Summary:

- Turbines operational: 18
- Turbines under maintenance: 2 (Turbine 3 and Turbine 7)

Power Production Data:

- Total power generated: 150 MW
- Average wind speed: 12 m/s
- Availability factor: 98%

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Maintenance Activities and Incidents

Scheduled Maintenance Tasks Completed:

- Lubrication of turbine blades.
- Inspection of gearbox and generator in turbine 5.

Unscheduled Maintenance Activities:

- Repaired electrical fault in turbine 3.
- Fixed hydraulic leak in turbine 7.

Pending Maintenance Tasks:

- Replace worn-out bearings in turbine 12.
- Scheduled blade inspection for turbine 8.

List of Incidents During the Shift:

1. Turbine 3 Electrical Fault:

- Description: Electrical fault detected in turbine 3.
- Impact: Turbine offline for 3 hours.
- Actions Taken: Fault repaired and turbine brought back online.

2. Turbine 7 Hydraulic Leak:

- Description: Hydraulic leak observed in turbine 7.
- Impact: Reduced efficiency.
- Actions Taken: Leak fixed, turbine performance restored.

Safety Observations:

- All safety protocols followed.

- No safety incidents reported.

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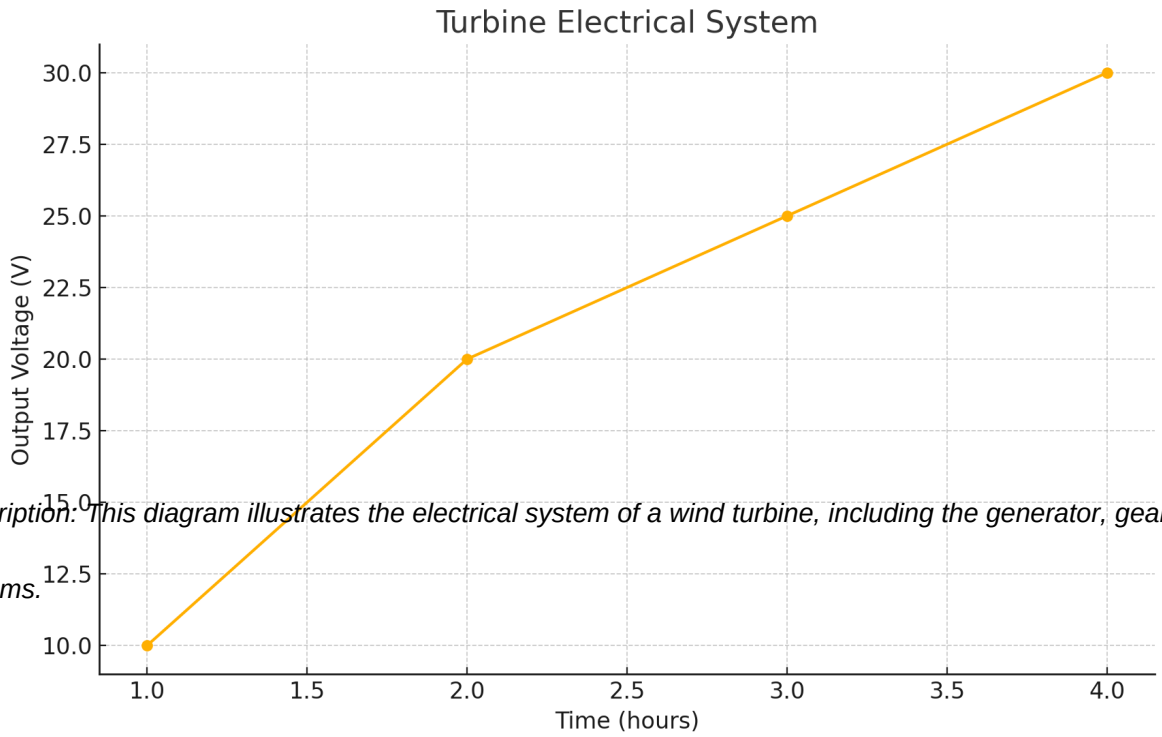

Description: This diagram illustrates the electrical system of a wind turbine, including the generator, gearbox, and control systems.

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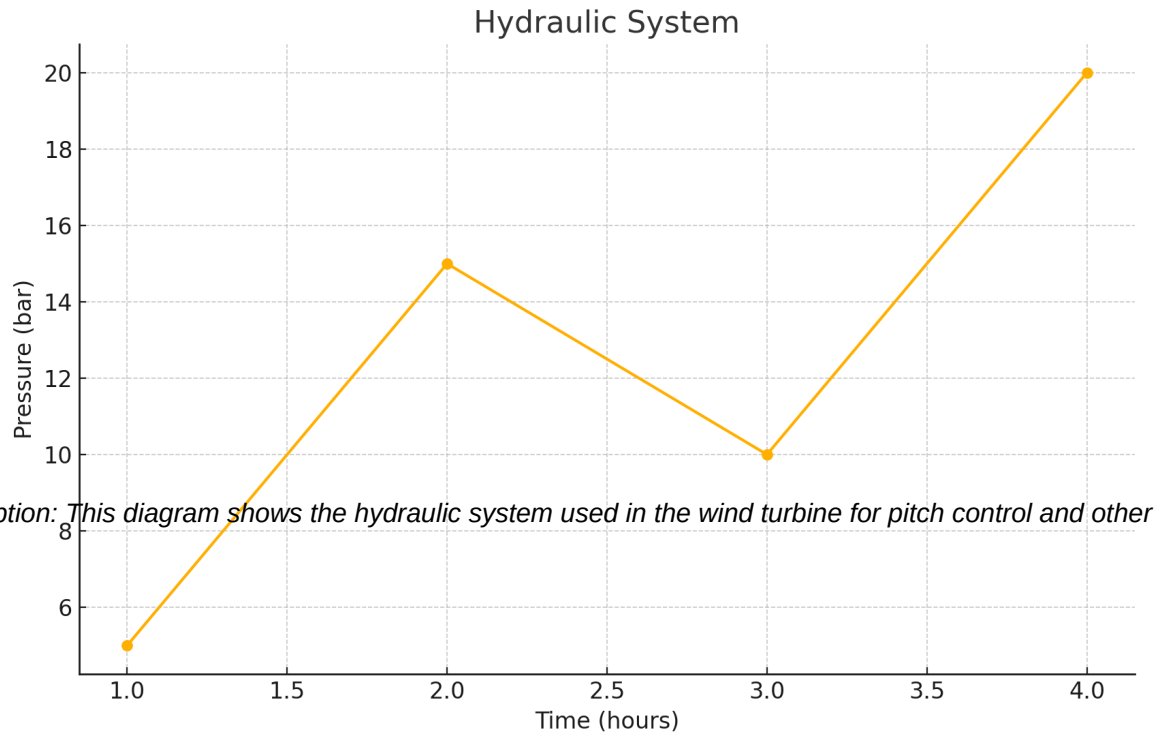

Description: This diagram shows the hydraulic system used in the wind turbine for pitch control and other functions.

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Inventory, Communication, and Additional Notes

Status of Critical Spares:

- Bearings: 5 in stock.
- Hydraulic fluid: 20 liters in stock.
- Electrical components: Sufficient for next two weeks.

Inventory Used:

- 2 liters of hydraulic fluid for turbine 7.
- 1 electrical component for turbine 3.

Replenishment Required:

- Order 10 additional bearings.
- Replenish hydraulic fluid stock.

Handover Notes for the Next Shift:

- Monitor turbines 3 and 7 for performance.
- Ensure scheduled maintenance for turbine 12 is completed.

Communication with External Parties:

- No communication with grid operators required.

Coordination with Other Departments:

- Maintenance department informed about pending tasks.

Additional Notes:

- Overall, the shift was smooth with minimal disruptions.

Attachments:

- Detailed maintenance report for turbine 3.
- Diagram of hydraulic system for turbine 7.