

Cooling Tower Maintenance Procedures



- Prior to Seasonal Servicing, take Cooling Tower out of operation and Lockout/Tagout operation
- Drain Sump and Clean Fill material and Sump
- Inspect Casing, Coating and Fill Condition
- Inspect Drift Eliminators
- Inspect Shaft (condition) and Bearings (condition) and lubricate Bearings
- Inspect Blades/Wheels for Condition and Proper Clearances
- Inspect Motor (bearings and windings - megger), Belts (condition and tension) and Pulleys (condition and secure to shaft)
- Replace Belt(s) if necessary with matched set of belts and check pulley alignment.
- Inspect Heater and Level Control Mounting Hubs
- Inspect and Clean Strainer(s)
- Check Oil Level in Gearbox and inspect for water in the oil and external leaks
- Replace oil as recommended by manufacturer or have oil analysis performed
- Inspect Shaft and Couplings
- Inspect all Safety Controls
- Fill tower and Inspect Level Control operation
- Inspect and Adjust Water Level
- Inspect Water Distribution with Pump operating and Fan(s) off
- Inspect for Water Leaks and correct as necessary
- Inspect Metal Condition prior to Power Washing
- Test operation of Motor(s), VFD(s) if applicable and all operating controls
- Inspect operation of Water Treatment Equipment

Additional Cooling Tower Maintenance Procedures for Winter

- Inspect operation of Sump Heaters (or other freeze protection) and Controls
- Inspect Heat Trace operation
- Inspect operation of Accessories (dampers, Spray Pumps, etc..)
- Lubricate Fan Bearings
- Check operation of any Diverting/Isolation Valves

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