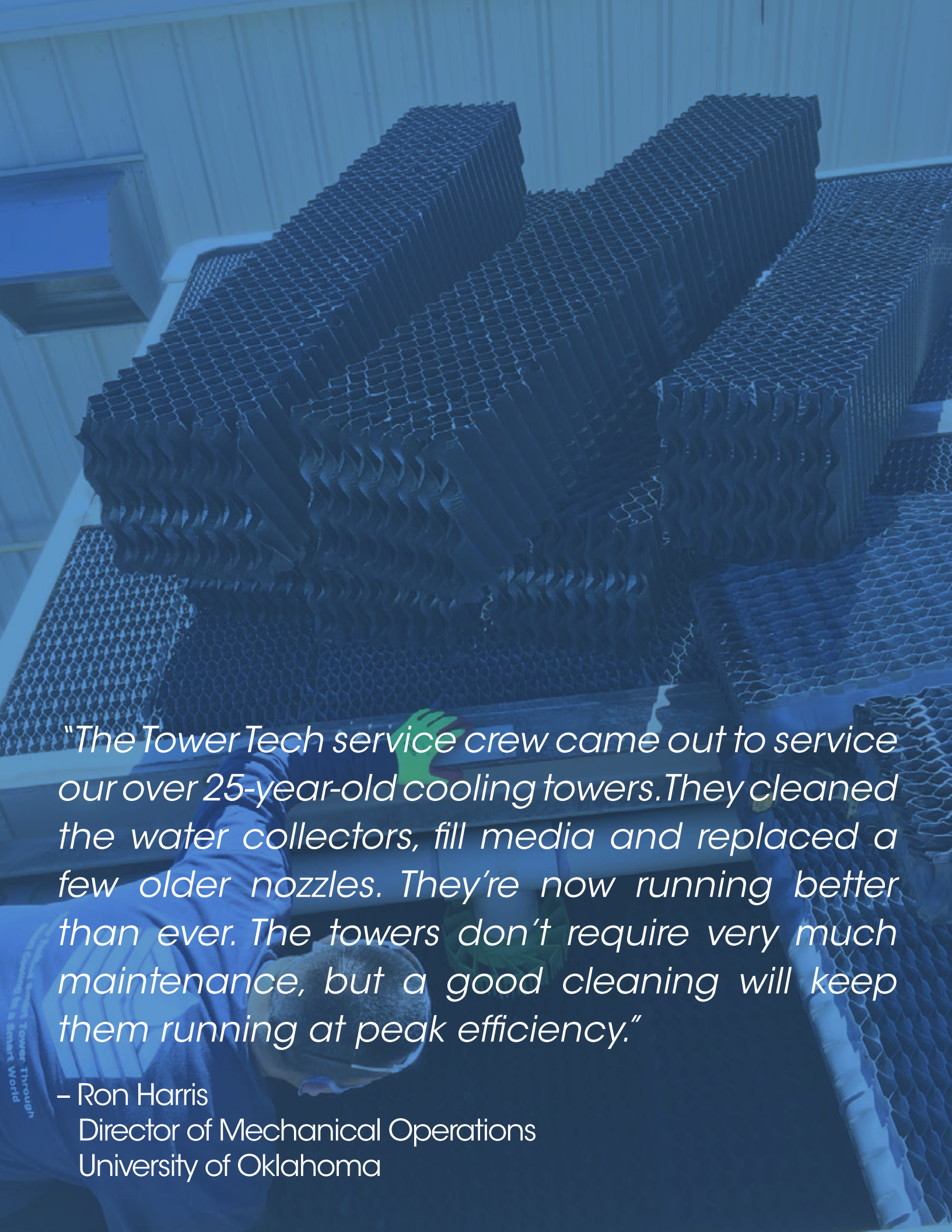


Preventive Maintenance



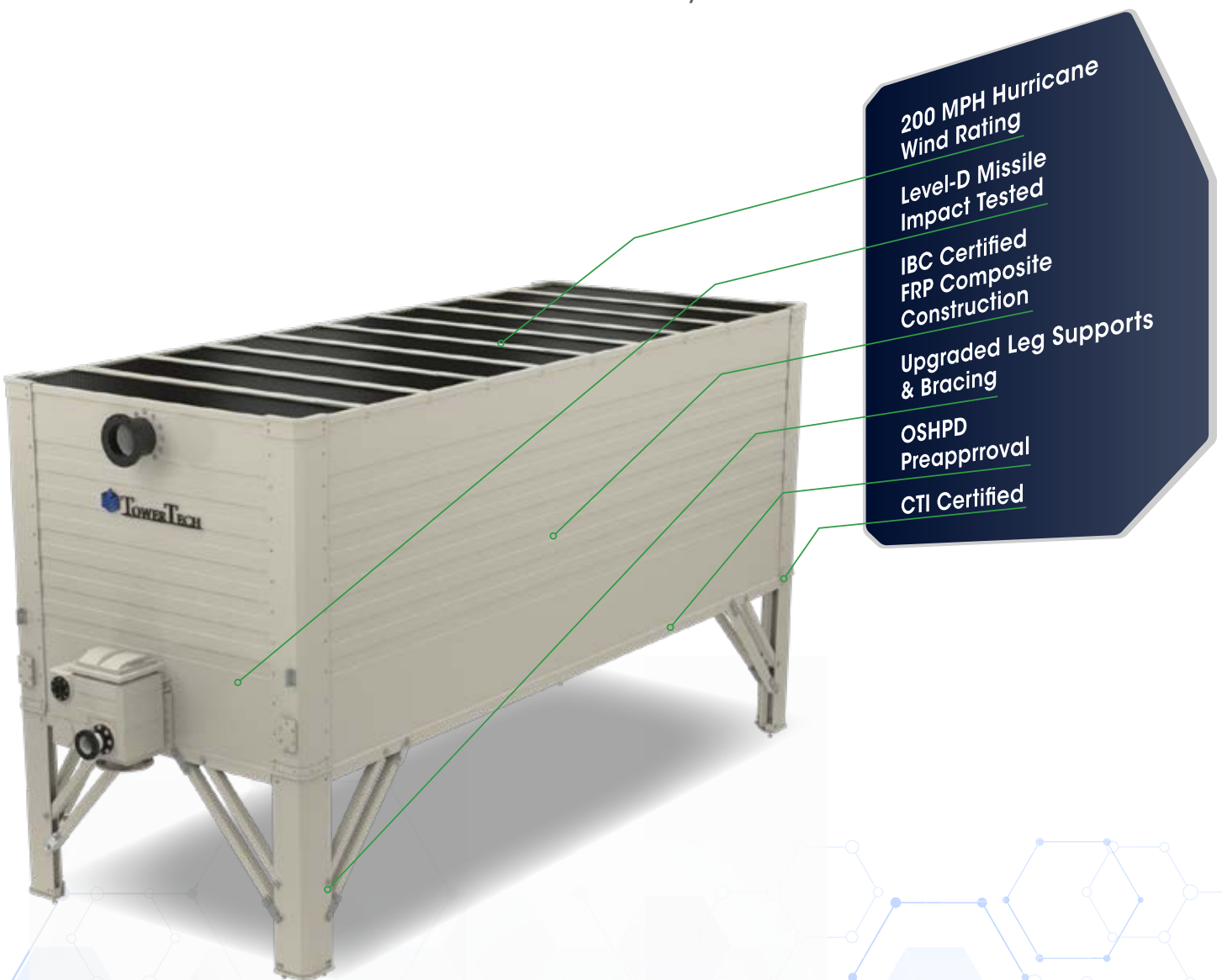


"The Tower Tech service crew came out to service our over 25-year-old cooling towers. They cleaned the water collectors, fill media and replaced a few older nozzles. They're now running better than ever. The towers don't require very much maintenance, but a good cleaning will keep them running at peak efficiency."

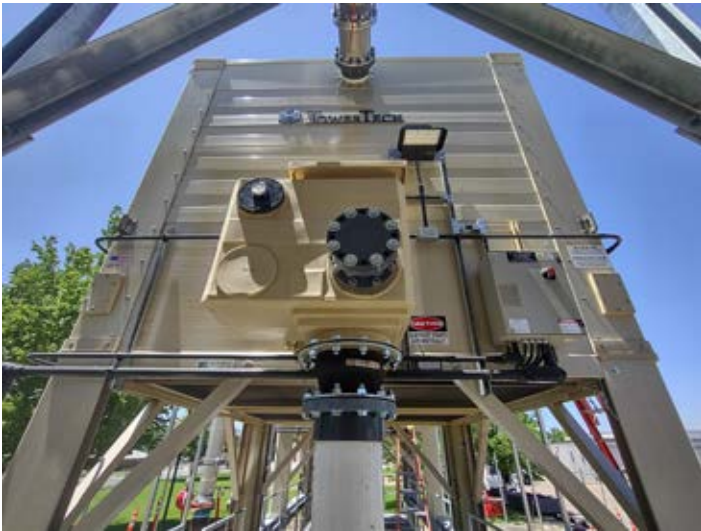
– Ron Harris
Director of Mechanical Operations
University of Oklahoma

Maintaining the Most Advanced Modular Cooling Tower

Tower Tech manufactures a superior cooling tower with the lowest operational cost and the lowest scheduled maintenance requirements in the industry. Proper preventive maintenance will ensure maximum return on investment. This is largely due to its Storm Strong design and it is 100% non-corrosive materials that are built to last more than 30 years.



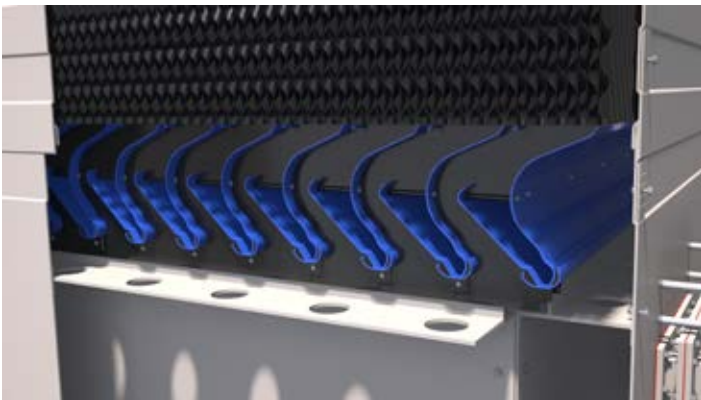
Proper Maintenance for Optimal Performance



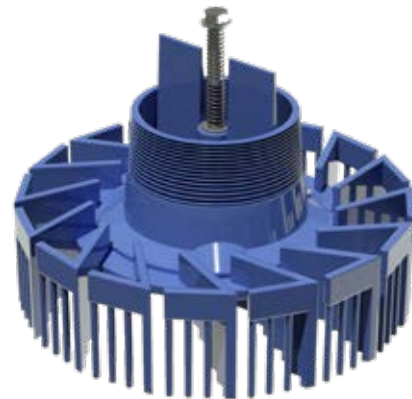
Operational performance and longevity are determined by environmental and operational factors. Internal cleanliness has the biggest impact on your Tower Tech cooling tower's performance, which includes proper airflow and water distribution.



Tower Tech provides an inspection plan that will evaluate every component of the cooling tower and provide a detailed report for proper maintenance. A thorough preventive maintenance service will then clean, seal and adjust components and identify and replace any failed or suboptimal components. These services are available on an as-needed basis or through a 3-5 year maintenance plan.



Regularly scheduled inspections and preventive maintenance are critical. Tower Tech towers have a patented design and unique technology. Our specially trained technicians have the expertise to perform the highest-quality inspections and maintenance services. Some parts, like our patented Water Collection System™, are unique to Tower Tech and require certified factory training to service.



Our certified OEM parts have a proven record of quality performance for your cooling towers. Over the last 25 years, Tower Tech has continued to innovate the design, manufacture, handling, installation and service of Tower Tech's equipment. Talk to your Tower Tech representative today to discuss your maintenance plan.

Recommended Schedule of Maintenance

COMPONENT	MAINTENANCE FREQUENCY	ACTION TO BE TAKEN
Shell Surfaces	12 months	Visual Inspection for leaks, warping, surface damage
Drift Eliminators	12 months	Visual Inspection/Cleaning*
Fill Media	12 months	Visual Inspection/Cleaning*
Rotary Spray Nozzles	12 months	Visual Inspection
Fan Guards	1 month	Visual Inspection/Cleaning*
Fan Blade Clearance	1 month	Visual Inspection
Fan Motors	1 month **	Turn On Briefly
Fan Motors	12 months	Amp/Volt Check
Fan Motors	6 months	Visual Inspection
Mechanical Float Valve	3 months	Visual Inspection
Sump Screen	1 month	Visual Inspection/Cleaning*
Basin Immersion Heater	12 months	Visual Inspection/Cleaning*
Water Collection System	6 months (prior to cold season)	Visual Inspection/Cleaning*
Exterior UV Coating	10 years ***	Exterior Application

* As required.

** Required only if tower is not operated regularly for an extended period of time.

*** Required only if tower is showing signs of UV degradation. This will extend the life of the tower.

Details of proper maintenance and operations are found in *Tower Tech Installation, Operation and Maintenance Manual*

PREVENTIVE MAINTENANCE INSPECTION

- Inspect drift eliminators
- Remove and inspect fill media down to Water Collection System, then reinstall
- Inspect Rotary Spray Nozzles
- Inspect wall panel seams and joints inside tower
- Remove fan guards
- Remove fan assemblies as needed, to gain access to bottom of Water Collection System
- Remove and wash/clean Water Collection System dampers
- Wash/clean Water Collection System secondary drainage channels
- Inspect and reseal Water Collection System vanes as needed (unless they are damaged)
- Inspect interior walls below Water Collection System
- Before replacing fan guards, inspect motors and motor supports for missing parts, damaged wiring and corrosion
- Remove inspection port covers and inspect interior of perimeter basin wall, replace covers
- Inspect fan assemblies and fan shrouds
- Inspect exterior wall seams and joints
- Inspect make-up water level and sump strainer (and water valve, if applicable)
- Inspect exterior surfaces for UV damage

PREVENTIVE MAINTENANCE SERVICE

- Remove and wash/clean* drift eliminators (if clearable), then reinstall
- Remove and wash/clean* fill media (if clearable), then reinstall
- Reseal water distribution piping inside tower as needed
- Inspect Rotary Spray Nozzles (service crew usually has replacement nozzles)
- Remove fan guard assemblies
- Remove fan assemblies as needed for access to Water Collection System
- Wash/clean Water Collection System dampers
- Wash the Water Collection System secondary drainage channels
- Reseal Water Collection System vanes (unless they are damaged)
- Remove inspection port covers and inspect interior of perimeter basin wall, replace covers
- Power wash fan plenum exterior walls (walls facing fan shrouds)
- Power wash fan assemblies and fan shrouds
- Reinstall Water Collection System dampers
- Reseal interior wall seams and joints as needed
- Inspect fan assemblies
- Reinstall fan assemblies and fan guards
- Adjust make-up water valves to recommended water operating level (if water valve exists)
- Apply ShieldStrong™ UV clear coating to exterior (for up to 10 years of extended UV/sun protection)

Tower Tech offers several preventive maintenance plans to ensure your tower operates at peak performance while further reducing operational costs due to untimely shutdowns or component failures.



Tower Tech

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