QUALICHEM

Preparing Your Cooling Tower for Startup:

A COMPREHENSIVE CHECKLIST

Ар	roper cooling tower startup involve	es a s	eries of critical steps, including:
\bigcirc	Conduct a pre-startup Inspection	\bigcirc	Add treatment chemicals
\bigcirc	Fill the basin	\bigcirc	Adjust the flow rate and fan speed
\bigcirc	Start the circulating pumps	\bigcirc	Continuously monitor the operation
	ch of these steps is essential to ensure to ver, maintaining good water quality, and ure.	-	
ma <u>;</u> for	nddition to the recommendations below y also have seasonal preventative coolin mechanical components such as fans a kthrough of a proper cooling tower sta	ng to and c	wer maintenance requirements ontrols. A typical step-by-step
	Step 1 ։ Conduct a thorough բ	ore-	startup inspection of
	the tower and Its componen	ts	
	This includes checking for leaks, inspessions supports, and ensuring that all valves installed and functional. This step is critical that could affect the startup process of	and i itical	nstrumentation are properly to identify any potential issues
	Step 2: Fill the cooling tower	bas	sin with water
	The water source should be clean and level should be maintained at the recois essential to ensure proper water flow equipment due to dry running.	mm	ended operating level. This step
	Step 3: Start the circulating p	oum	nps
	The pumps should be started one at a	time	and checked for proper

operation. This step is crucial to ensure proper water flow and to prevent

issues such as cavitation or low water flow.

Step 4: Add treatment chemicals
Add cooling tower chemicals such as biocides, corrosion inhibitors, and scale inhibitors to the water. These chemical treatments are essential to prevent microbial growth, corrosion, and scaling, which can cause damage to the cooling tower equipment. This step is critical to maintaining good water quality and protecting the equipment from damage.
Step 5: Adjust the water flow rate and fan speed
These settings should be adjusted based on the specific design and operating parameters of the cooling tower. This step is important to optimize the cooling tower's performance and ensure maximum efficiency.
Step 6: Monitor cooling tower operation continuously
This includes monitoring the water quality, temperature, and pressure, and checking for any abnormal conditions such as high vibration or unusual noise. This step is critical to identifying any issues that may arise during the

startup process and ensuring the proper functioning of the cooling tower.

