

Cooling Tower Pre-Functional Checklist

Statement of Readiness

The above equipment and/or systems integral to them are complete and ready for functional testing, except as noted. None of the outstanding items preclude safe and reliable functional tests being performed. This checklist does not take the place of the manufacturer's recommended checkout and startup procedures or report.

Responsible Contractor Sign Here

CONTRACTOR	PRINTED NAME	SIGNATURE	DATE
General Contractor (GC)			
Mechanical Contractor (MC)			
Electrical Contractor (EC)			
TAB Contractor (TAB)			
Controls Contractor (CC)			

This statement of readiness has been received by the Commissioning Agent on	and will
be incorporated as part of the final commissioning report.	

Equipment Information

Manufacturer	MESAN USA	Model Number		
Serial Number		Cooling Capacity BTUH/GPM	Fan Speed / Power (rpm/hp)	
Volts/Phase		Motor Power and Speed (hp /rpm)		
Notes:				



System Readiness Checklist

Yes = Checked and Completed, N/A = Not Applicable

General I	nstalla	ation			
Description	Yes	N/A	Initials	Date	Comments
General appearance good, no apparent damage					
All components present (fans, pumps, fill, etc)					
All access doors are operable					
Installation and startup manual provided					
Unit tags affixed					
Notes:					
Pi	oing				
Description	Yes	N/A	Initials	Date	Comments
All piping components have been installed (in the correct order) as required by detail drawings					
Piping arranged for ease of unit removal					
Piping supported as required by specifications					
Piping is clean					
Makeup water supply is provided					
All valve tags and test ports are easily accessible					
Piping insulation complete and installed as per specifications					
Notes:					
Cooling Tow	er Ins	tallati	on		
Description	Yes	N/A	Initials	Date	Comments
Unit is secured as required by manufacturer and specification					
Adequate clearance around unit for service					
All components accessible for maintenance					
Unit is clear of trees, rubbish, dust, etc. to prevent fouling					
Vibration isolators installed and in good condition					
Ladder reaches grade/roof level					
Unit is labeled and easy to see					
Notes:		•			



Mechanical Startup					
Description	Yes	N/A	Initials	Date	Comments
Tower basis filled					
Sump strainers and nozzles are clean					
Motors and gear box lubricated					
Fan pitch adjusted					
Critical frequencies identified, recorded and programmed out of VFD					
System starts and runs without any unusual noise or vibration					
Manufacturers startup checklist completed and attached					
Notes:					
Electrica	l Instal	lation			
Description	Yes	N/A	Initials	Date	Comments
Power disconnect is located within site of the unit it controls and labeled					
All electric connections tight and installed properly					
Grounding installed for components and unit		Ш			
Fan motor rotation in the proper direction					
VFD installed					
Notes:					
Controls	-				
Description	Yes	N/A	Initials	Date	Comments
Control panel accessible and labeled properly	 	닏			
All sensors (temperature, pressure, etc.) are installed and calibration verified					
Valve actuators installed and calibration verified					
Safety items installed and verified (low water, high water, etc.)					
Notes:					



Contro	ls Sta	tup			
Description	Yes	N/A	Initials	Date	Comments
Sequence of control verified					
High/low water alarms operational					
VFD operational					
Float switch, motorized valves, makeup water are operational					
Notes:					
Water Trea	atment	Startu	n		
Description	Yes	N/A	Initials	Date	Comments
Galvanized surfaces passivated (if applicable)				2 415	
Conductivity and pH controls operational		Ī			
Make up flow meter signal operational					
Blow down control operational					
No-flow injection interlock operational					
Notes:					
	TAB				
Description	Yes	N/A	Initials	Date	Comments
Unit is free of unusual noise or vibration					
Motor overloads verified					
Motor rotation verified – each motor					
Motor voltage, amps verified – each phase of each motor					
Flow rate through tower verified					
Water distributed evenly in hot water basin with flow at 50% - no dumping					
Water distributed evenly in hot water basin with flow at 100%					
Notes:					



Additional Comments: