

Data Center Cooling System Checklist

System Overview & Documentation

Verify documentation, system diagrams, and operational procedures are current and accessible.

cessible.		
Describe the over	all cooling system architecture and design.	
Write something		
Jpload the curren	data center cooling system schematic/diagram.	
♣ Upload File		
Date of last coolin	g system design review.	
Enter date		
Briefly summarize	the latest significant changes or upgrades to the cooling	
Write something		_

Cooling System Type (e.g., Chilled Water, Direct Expansion, In-Row)
☐ Chilled Water ☐ Direct Expansion (DX)
☐ In-Row
Other - Specify in Long Text
Cooling System Capacity (kW or Tons)
Enter a number
Document Location (Physical and/or Network)
Write something
Environmental Monitoring
Assess temperature, humidity, and airflow readings across the data center and cooling
system components.
Ambient Temperature (Data Center)
Enter a number
CRAC/CRAH Supply Air Temperature
Enter a number
CRAC/CRAH Return Air Temperature
Enter a number

Humidity (Data Center)	
Enter a number	
Differential Dueserus (Air Filters)	
Differential Pressure (Air Filters)	
Enter a number	
Airflow Direction Verification (Visual Inspection)	
Correct	
Incorrect - Needs Adjustment	
Not Verified	
Notes/Observations on Environmental Readings	
Write something	
)
Date of Environmental Monitoring	
Enter date	
hillers (If Applicable)	
tailed inspection and verification of chiller operation, efficiency, and maintenance cords.	

Chiller	1	Water	Inlet	Temperature	(°C
Ommen	_	vvatci	IIIICt	Temperature	' ~

Enter a number...

Chiller 1 Water Outlet Temperature (°C) Enter a number	
Chiller 1 Chilled Water Flow Rate (GPM)	
Enter a number	
Chiller 1 Energy Consumption (kWh)	
Enter a number	
Chiller 1 Compressor Status	
NormalWarning	
Error	
Last Oil Change Date	
Enter date	
Any unusual noises or vibrations observed?	
Write something	
Upload Vibration Analysis Report (if applicable)	
♣ Upload File	

Cooling Towers (If Applicable) Docus on water quality, fan operation, and overall cooling tower efficiency. Cooling Tower Water Inlet Temperature (°C) Enter a number Cooling Tower Water Outlet Temperature (°C) Enter a number Cooling Tower Fan Speed (RPM) Enter a number Cooling Tower Water Flow Rate (GPM)
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Enter a number Cooling Tower Water Flow Rate (GPM)
Cooling Tower Water Flow Rate (GPM)
Enter a number
Water Treatment Type
Chemical Treatment
☐ Filtration ☐ Reverse Osmosis
Other

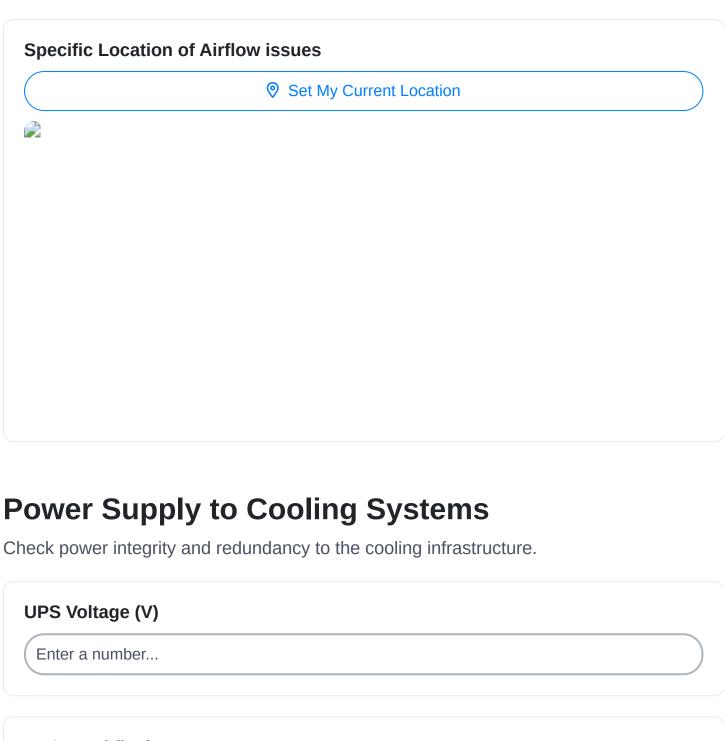
Enter date	
Observatio	ns regarding water quality (clarity, color, etc.)
Write somet	hing
Fan Motor (Condition
Excellent	
Good	
Fair	
Poor	
-	er Room Air Conditioners (CRAC/CRAH) CRAH unit operation, airflow, and filter status.
Supply Air	Temperature (°C/°F)
Enter a num	
	Temperature (°C/°F)

Delta T (°C/°F)
Enter a number
Chilled Water Pressure (PSI/Bar)
Enter a number
Chilled Water Flow Rate (GPM/LPM)
Enter a number
Air Filter Condition
Sood
Fair
Poor
an Motor Operation
Normal
Audible Noise
Vibration
Malfunctioning
Any unusual noises or observations?
Write something

Last Filter Change Date	
Enter date	
Pump Systems Review pump performance, maintenance, and leak detection.	
Pump 1 Flow Rate (GPM)	
Enter a number	
Pump 2 Flow Rate (GPM)	
Enter a number	
Pump 1 Discharge Pressure (PSI)	
Enter a number	
Pump 1 Motor Current (Amps)	
Enter a number	
Pump 1 Vibration Status	
NormalSlightly Elevated	
☐ Elevated	
Abnormal	

None	
Minor	
Moderate	
Significant	
Last Coupling Alignment Date	
Enter date	
Notes/Observations regarding pump performance	
Write something	
Air Distribution ssess airflow pathways, obstructions, and containment effectiveness. CRAC/CRAH Unit Airflow (CFM) - Verify against design specificatio	ns
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CRAC/CRAH Unit Airflow (CFM) - Verify against design specificatio	

Containment Integrity - Visual Inspection (Hot Aisle/Cold Aisle) Excellent Good Fair Poor
Identify any Airflow Obstructions Cables Equipment Placement Debris/Dust None
Detailed Observations/Notes on Air Distribution Write something
Floor Tile Condition (for raised floors) Intact & Properly Installed Damaged/Missing Tiles Improperly Installed



UPS Load (kW)

Enter a number...

Generator Voltage (V)

Enter a number...

JPS Bypass Status	
Normal Operation	
Bypass Active	
Bypass Failed	
_ast UPS Load Test Date	
Enter date	
_ast Generator Test Date	
Enter date	
Notes on Power Supply Conditions	
Write something	

Enter a number...

Current Humidity Threshold Alarm Setting
Enter a number
Alarm Acknowledgement Procedure Followed?
☐ Yes ☐ No
Date of Last Alarm System Test/Calibration
Enter date
Description of any recent alarm events and corrective actions taken
Write something
Which alarm notifications are configured?
☐ Email ☐ SMS
☐ Pager
SNMP Trap
Alarm system logs reviewed?
☐ Yes ☐ No

Maintenance Records & Schedules

Enter date				
PM Task Completion Percentage (if ongoing)				
Enter a number				
Summary of Last PM Performed (including findings & actions)				
Write something				
Inload PM Report/Documentation				
♣ Upload File				
Lext Scheduled PM Task(s)				
Upload File Next Scheduled PM Task(s) ☐ Filter Replacement				
Lext Scheduled PM Task(s)				
Upload File Next Scheduled PM Task(s) ☐ Filter Replacement ☐ Belt Inspection/Replacement				
Wext Scheduled PM Task(s) ☐ Filter Replacement ☐ Belt Inspection/Replacement ☐ Water Treatment Analysis				
Next Scheduled PM Task(s) Filter Replacement Belt Inspection/Replacement Water Treatment Analysis Condenser Tube Cleaning				
Next Scheduled PM Task(s) Filter Replacement Belt Inspection/Replacement Water Treatment Analysis Condenser Tube Cleaning Leak Check				
Next Scheduled PM Task(s) Filter Replacement Belt Inspection/Replacement Water Treatment Analysis Condenser Tube Cleaning Leak Check Bearing Lubrication				
Next Scheduled PM Task(s) Filter Replacement Belt Inspection/Replacement Water Treatment Analysis Condenser Tube Cleaning Leak Check Bearing Lubrication				

Write something			