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	STANDARD: **ASHRAE TC 9.9 / ISO/IEC 27001 / NFPA 75**	AUDIT FREQUENCY: **Daily Pre-Shift**

Server Room Environmental Checklist Sop Template

Operational Scope: This Standard Operating Procedure establishes rigorous environmental monitoring protocols for mission-critical server rooms to prevent equipment thermal degradation and catastrophic failure. It fulfills mandatory facility compliance requirements by enforcing systematic tracking of HVAC performance, airflow distribution, and structural integrity.

MANDATORY PPE:	ESD-Safe Anti-Static Wrist Strap, Safety Glasses (ANSI Z87.1), Nitrile Inspection Gloves, Low-Voltage Insulated Footwear, Low-Lint Cleanroom Smock
PREREQUISITES:	Verify electronic access logs are active and secure prior to entering the server facility. | Ensure calibrated handheld environmental meters (temperature, relative humidity, particulate) are on-site. | Review active environmental alarm dashboards for any preexisting out-of-range notifications.

HVAC & THERMAL MANAGEMENT INSPECTION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Ambient Temperature**	Aisle ambient temperature must read between 64.7°F (18°C) and 80.6°F (27°C) per ASHRAE recommended specs without hot spots exceeding thresholds.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
2	**Relative Humidity (RH)**	Relative humidity levels must remain maintained between 40% and 60% dew point to prevent both electrostatic discharge and condensation risks.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
3	**CRAC / CRAH Unit Operation**	Confirm all primary and redundant Computer Room Air Conditioner units are cycling normally with zero active fault codes or compressor errors.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

AIRFLOW & STRUCTURAL CONTAINMENT

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
4	**Raised Floor & Plenum Integrity**	All floor tiles must be securely seated with no gaps, and cable cutouts properly sealed with grommets to maintain optimal underfloor static pressure.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
5	**Hot/Cold Aisle Containment Barriers**	Containment doors, roof panels, and plastic strips must seal completely with no bypass airflow mixing hot exhaust with cold intake streams.	**Standard**	**[ ] PASS [ ] FAIL [ ] N/A**
6	**Rack Intake Obstructions**	Server rack intake doors must remain free of cardboard, shipping materials, or cabling obstructions that restrict front-to-back airflow.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

SAFETY, UTILITIES & CLEANLINESS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
7	**Sub-Floor Water Detection Sensors**	Spot test or verify continuous monitoring status of leak detection cables beneath raised floors near condensation lines and perimeter walls.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
8	**Fire Suppression System Status**	Clean agent fire suppression control panel must display normal status with abort switches unobstructed and manual release pulls operational.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
9	**Janitorial & Particulate Control**	Server room must be entirely free of dust accumulation, debris, packing materials, food, and beverages to preserve ISO particulate cleanliness standards.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**

Certified Data Center Facility Technician Signature: _____	**Date / Time:** _____	**Badge / Cert #:** _____
Operations Manager / Site Safety Director Sign-off: _____	**Review Date:** _____	**Audit Status:** [ ] Approved [ ] Rectify

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