



MISSION CRITICAL ENGINEERS

Independent Commissioning Authority | Data Centres & Critical Facilities

Precision Verification. Peak Performance. From Day One.

Mission Critical Engineers (MCE) is an **independent, third-party commissioning authority (CxA)** specialising in data centres and critical facilities of every scale — enterprise edge to 500 MW+ hyperscale campuses. Our **licensed team** applies a **proprietary commissioning methodology** forged from decades of hands-on data centre experience, delivering objective infrastructure verification so your facility performs reliably from Day One.

50+ Facilities Commissioned	500 MW+ Mega Campus Experience	99.999% Reliability Target	All Scales Enterprise to Hyperscale
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WHO WE ARE

- **Independent Third-Party CxA** — No design or construction stake; purely objective, owner's-side oversight.
- **Licensed Engineers** — Licensed professionals across electrical, mechanical and controls disciplines.
- **Proprietary Standards & Methodology** — MCE's commissioning framework integrates leading industry standards — including ASHRAE, NFPA, ANSI/TIA, ISO/IEC and others — into a rigorous, field-tested methodology.
- **Mega Data Centre Track Record** — Commissioned facilities from single-MW edge sites to 500 MW+ hyperscale campuses.

INFRASTRUCTURE SYSTEMS WE COMMISSION

Power Distribution HV/MV switchgear, transformers, PDUs, RPPs, busbars, ATS/STS	Liquid Cooling Rear-door HX, direct liquid cooling, immersion cooling, CDUs
UPS & Battery Systems All UPS topologies, BESS, battery strings, static bypass	BMS / EMS / DCIM Controls integration, sensor calibration, alarming, dashboards
Standby Generation Diesel & gas generators, paralleling switchgear, fuel systems	Fire Suppression Pre-action, clean-agent, FM-200, VESDA — NFPA 75/76 compliance
Cooling & Thermal Chillers, CRAHs, cooling towers, air-side economisers, humidification	Security & Access CCTV, card access, biometric and life-safety systems

WHY CHOOSE MCE

Truly Independent No design or construction conflicts — our only obligation is to the owner and the specification.	Any Scale, Any Tech Hyperscale AI campuses to enterprise edge Air-cooled, liquid-cooled, immersion - all technologies.	All Reliability Levels N+n, 2N, Fault Tolerant and Concurrently Maintainable architectures - every topologies.
Proprietary Cx Platform Our own commissioning software: real-time deficiency tracking, test script management, live reporting.	Schedule-Driven Phased, parallel Cx workflows that compress timelines without sacrificing quality or safety.	Full Lifecycle Support Pre-design review through post-occupancy — FAT witnessing, seasonal testing, O&M; validation.

STANDARDS & FRAMEWORKS WE FOLLOW

ASHRAE GL-0 Cx Process	ASHRAE GL-1 HVAC Cx	NFPA 70 Electrical	NFPA 75/76 Fire Protection	ANSI/TIA-942 DC Infrastructure	ISO/IEC 22237 Intl. Standard	EN 50600 European DC
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Ready to Commission Your Data Center?

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Proudly Canadian