

# Solutions Through Commissioning

## Services Include:

- Existing Building Commissioning (EBCx) **NEBB Certified**
- New Building Commissioning (Cx) **NEBB Certified**
- Monitoring Based Commissioning (MBCx)
- Energy Audits (ASHRAE Level 1, 2, 3) & Targeted
- Pre-Functional and Functional Performance Testing
- Control System Point-to-Point Verification and Calibration
- Troubleshooting and Diagnostic Services of HVAC and Control Systems
- Testing, Adjusting, Balancing (TAB) **NEBB Certified**
- As Found Testing (air & water flows, temp, R/H, pressure, CO<sub>2</sub>, CO, air particulate count, lighting level)
- As Found Testing (motor kW, pf, voltage, amperage)
- Building Condition Assessments
- Project Development
- Project Management
- Mechanical Cost Estimating
- Energy Savings Calculations
- ASHRAE 62.1 Ventilation Calculations
- Data Logging (temp, R/H, pressure, CO<sub>2</sub>, CO, amperage, kW)
- Boiler combustion efficiency testing
- Chiller efficiency testing (kW/ton)
- M&V Design and Support (pre & post retrofit)
- Building Envelope/Enclosure Testing **NEBB Certified**
- Thermal Infrared Imaging Testing/Analysis
- Indoor Air Quality (IAQ) Investigations
- Technical Training



➤ EBCx Services evolved from over four decades of experience working in the following specialty industries:

- Mechanical Contracting
- Mechanical Service
- Testing, Adjusting and Balancing (TAB)
- Building Automation Systems (BAS)
- Energy Services
- Commissioning Services



➤ Experienced in the total approach of “Making Buildings Operate Comfortably, Safely and Energy Efficiently”

- Investigate and analyze problems and systems through multiple lenses:
  - Commissioning Professional...encompasses a total “*holistic*” approach of **Making Buildings Work**
  - TAB (setup equipment & systems with proper flows for efficient and safe operation)
  - Controls (identify control sequences for efficient and safe operation)
    - **Tridium Niagara N4 Certified**
  - Engineering (identify possible design issues)
  - Contractor (identify possible installation issues)
  - Service tech (identify maintenance/operational issues)
  - Energy Engineer (identify opportunities to reduce energy waste)
  - IAQ Investigator (identify possible causes and solutions to IAQ issues)



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