

# Sarah E. Maston, PE, CPMP, QCxP, LEED AP BD+C

*President*

## Education

### Rensselaer Polytechnic Institute (RPI)

#### B.S., Mechanical Engineering, Concentration in Energy Systems

University of Wisconsin-Professional Certification Courses:

- Commissioning Process for Delivering Quality Constructed Projects
- Commissioning for Existing Buildings

Northeastern University - Continuing Education:

- Design of Building Electrical Systems
- Design of Building Plumbing Systems

## Professional Certifications

Registered Professional Engineer -MA #45487

University of WI: Qualified Commissioning Process Provider (QCxP)

ASHRAE: Commissioning Process Management Professional (CPMP)

LEED AP: BD+C

## Affiliations

ASHRAE (American Society of Heating, Refrigeration and Air Conditioning Engineers):

Building Commissioning Technical Committee (TC 7.9):

- Vice-Chair (2014-15)
- Secretary (2013-14)

Conference and Exposition Committee:

- Vice-Chair (2014-2015)
- Past Technical Chair of Denver Conference (2013)

Ms. Maston is a Mechanical Engineer with over 16 years of experience in mechanical/ HVAC systems evaluation, troubleshooting, design, startup, and commissioning for a variety of project types. Serving as lead commissioning authority for new construction projects as well as existing building commissioning projects, her responsibilities include facilitating Owner's Project Requirement (OPR) workshops, project management, performing building system assessments, developing commissioning plans, design reviews, specifications, system readiness, system evaluations and facilitating functional performance tests. She also follows up with occupants to evaluate comfort and review 10-month warranty meetings. She has also designed systems utilizing terminal units, radiant heat, central air systems, humidity controls, building automation, energy recovery, and central plants. Additionally, Ms. Maston has performed building efficiency studies, and LEED® feasibility studies.

## Relevant Experience

### IMF Concordia Hotel, Washington, DC

Commissioning services for the renovation project of a 95,000 GSF, 10-story building that now accommodates 125 new studio apartments and common spaces. Commissioned the HVAC systems, including VRF Heat Pumps, Central Air Handling Units, and Commercial Kitchen exhaust and makeup air system.

### Boston Children's Museum LEED® Commissioning, Boston, MA

Commissioning services for a \$45 million expansion/ upgrade of the 100-year-old museum. The project, which involved 50,000 SF of major renovations to the existing building and construction of a new 3-story, 23,000 SF addition, was designed with a number of sustainable building systems to attain LEED® Gold certification. Commissioned the HVAC and Smoke Evacuation Systems and the Rainwater Collection system.

### Boston College Weston Jesuit Community Housing, Boston, MA,

Commissioning services for the new housing complex, which consists of five buildings, totaling 49,000 SF. Four of the buildings provide housing and contain bedrooms, kitchen areas, living areas, dining areas, and worship areas. The fifth building serves as a common building utilized for dining, worship, and administrative functions. This project achieved LEED Silver certification. Commissioned systems include the Building Automation and Energy Management Control System (BAS & EMCS); heating, cooling and ventilation and plumbing systems.

### Clark University Goddard Library Renovation, Worcester, MA

Commissioning services, from the design phase up through the construction and warranty phase, for a renovation and upgrade of the Goddard Library. Reviewed and inspected the functionality for the BAS system, dual-duct terminal units, dual-deck air handling units, and exhaust fans. Produced a Commissioning Plan and Test Plan & Schedule, Corrective Action & Pending Action Logs, Observation Checklists, and facilitated the Functional Performance Testing with the support of the controls contractor.

**Green  Footprints**  
**Commissioning, Inc.**

Increasing Operating Efficiencies One Step at a Time

### **Affiliations (Cont'd)**

Assabet Valley Chamber of Commerce

➤ Board of Directors

Hudson Business Association (HBA)

National Association of Women in Construction (NAWIC)

Association for Facilities Engineering (AFE)

Project Lead the Way (STEM Programming)

Hudson High School

➤ Advisory Board

### **Brown University J. Walter Wilson Building, Providence, RI**

Commissioning services for the 4<sup>th</sup> floor administrative area and the chiller plant at the J. Walter Wilson Building. Reviewed and inspected the functionality for the BAS system, office terminal units, condenser water system and the chilled water system. Produced a Commissioning Plan and Test Plan & Schedule, Corrective Action & Pending Action Logs, Observation Checklists, and facilitated the Functional Performance Testing with the support of the controls contractor.

### **Amgen Energy Reduction Project, Cambridge, MA**

Existing Building Commissioning services and Project Management for the implementation of the energy retrofit of 7 floors of the Amgen building. All floors have a mix of laboratory and office space and the AHUs ran 24/7 at a very high ACH rate. Implemented a night setback schedule and divided spaces by usage to reduce ACH rates accordingly. Scope of services included managing commissioning, testing and balancing (TAB), and automatic temperature controls (ATC) to implement the new ACH rates.

### **UMass Memorial Medical Center, Memorial Campus**

#### **Central Chiller Plant Upgrade, Worcester, MA**

Start-up and Commissioning services for the Chiller Plant expansion serving the Memorial Campus. The chillers and cooling towers were upgraded due to inadequacies stemming from antiquated equipment. Produced a Commissioning Plan, Test Plan & Schedule, Functional Testing documentation, Corrective Action and Pending Action Logs, Observation Checklists and then facilitated the FPT testing, also following up 6-months later.

### **Potranco Business Park, San Antonio, TX**

Commissioning services for two new LEED-CI Gold certified buildings. The two properties, each spanning 125,000 SF, have dedicated OA units, as well as RTUs and variable air volume air distribution systems. Also commissioned the HVAC, data centers, DHW, and preformed integrated systems testing.

### **Redstone Business Park, Huntsville, AL**

Commissioning services for two new LEED-CS buildings (certification pending). The two properties, each spanning 125,000 SF, have Rooftop Air Handling Units with variable air volume air distribution systems, and Computer Room Air Conditioning (CRACs) Units, as well as the DHW.

### **M&T Bank Stadium, Baltimore, MD**

Performed the calculations needed to certify the Minimum Indoor Air Quality Performance credit (IEQp1) for the LEED-Existing Building certification. Performed site visits to confirm the as-built drawings and coordinated with the Maryland Stadium Authority and the Testing and Balancing Contractor to assure accurate results.