

The term commissioning comes from shipbuilding. A commissioned ship is one deemed ready for service. Before being awarded this status, however, a ship must pass several milestones. Equipment is installed and tested, problems are identified and corrected, and the prospective crew is extensively trained. A commissioned ship is one whose materials, systems, and staff have successfully completed a thorough quality assurance process.

### Commissioning for Cost Savings

Buildings are investments, and every building is unique. At Larson Binkley, we understand the need to maximize the value of your investment and assure long term returns. Commissioning is a highly effective way to reduce first cost, as well as provide ongoing energy savings and an improved indoor environment.

Acting as an objective, independent advocate for the building owner, we use a proven and systematic approach to reduce liability exposure and provide a safer and more comfortable building. The benefits of commissioning are far-reaching:

- Construction cost savings through fewer change orders and delays
- Lower energy and maintenance costs
- A fully functional building at initial occupancy
- Fewer disputes between owner & contractor
- Problems discovered early when they are less expensive to correct
- Improved indoor environmental quality

### It's Never Too Late

Benefits of commissioning are not limited to new buildings. We can apply the same process to existing buildings. Retro-commissioning can improve how equipment and systems are operating and functioning together, producing solutions to problems that occurred during design or construction, or address issues that have developed throughout the building's life. Retro-commissioning improves a building's operations & maintenance procedures to enhance overall building performance, providing you a more comfortable building while increasing energy efficiency.

### LEED® Accredited Professionals

At Larson Binkley, we're experienced in the LEED® certification process. We can provide in-depth knowledge of LEED® rating systems, expertise on USGBC policies and procedures, experience with other programs such as EPA's Act and Energy Star, and their correlation with LEED® certification and have numerous projects certified to various levels.

- Fundamental and Enhanced Commissioning Credits
- International Performance Measurement and Verification Protocol (IPMVP)
- Pre-design project requirements development
- Design reviews
- Construction phase services
- Training and occupancy phase services



## Services

- Commissioning
- Retro-commissioning
- Re-commissioning
- System Diagnostics
- Building Systems Forensics
- Peer Review
- Owner Representation
- LEED® Consulting
- Energy Modeling
- Troubleshooting
- Controls Verification
- Point-to-point Controls Verification

## Systems

### Mechanical

- Air distribution
- Displacement Ventilation
- Underfloor Air Distribution Systems (UFAD)
- Chilled water
- Condenser water
- Boilers
- Variable frequency drives
- RO / DI water
- Domestic water
- Laboratory/fume hoods
- Electric, pneumatic & DDC controls
- Vacuum, air & medical/lab gas

### Electrical

- Electrical power
- Standby & emergency power
- Uninterruptible power
- Cogeneration
- Lighting & lighting controls
- Daylighting

### Building Envelope & Partitioning

- Infiltration
- Exfiltration
- Moisture barriers
- Thermal performance

### Life Safety

- Fire suppression
- Fire detection
- Smoke control

### Information Technology

- Voice & data
- Structured cabling