



WHO WE ARE

ICDS is a design and construction engineering firm committed to quality professional design and engineering services as well as efficient and comprehensive construction technical and commissioning services. Four dedicated individuals founded *ICDS* in 2003, to provide a level of services above and beyond the industry standard. With our combined experience of over 50 years in the building construction field, we can ensure project success and, most importantly, client satisfaction.



OUR COMMITMENT

Responsive: As a small firm, we are focused on cross-disciplinary training, which allows any principal to be responsive to the needs of our clients. Being a firm of only principals, you will get the highest quality of service with engineers having greater expertise than other firms and with individuals who have a vested interest in the success of our business.

Creative & Adaptive: With our decade plus of experience as individuals, we understand the complexities of modern construction needs. Some of these needs today include energy conservation and sustainable design, fast-track projects, interoperability of building/energy management systems, and indoor air quality.

Cost Effective: As a small firm with little overhead, we are capable of minimizing costs to our clients while maintaining the highest level of engineering standards and design detail without compromise.

WHAT IS COMMISSIONING?

Commissioning is the process of verifying and documenting that the systems and equipment are designed, installed, and operating as intended. The process can either be comprehensive as outlined by ASHRAE Guideline 1-1999 procedure or more streamlined to suit the needs of a specific project. In any case, commissioning is the building owners' way of ensuring that they get what they paid for.

OUR SERVICES

As a complement to our design and construction services (refer to our other brochures), we provide complete facility systems commissioning for the following (including but not limited to):

- HVAC Systems
- Precision Climate Control Systems
- Automation & Controls (DDC) systems
- Lighting Controls
- Central Plant & District Chilled / Hot Water
- Swimming Pool Systems
- Information Technology Systems

Depending on the extent of the commissioning process, *ICDS* can provide commissioning services through the design, construction, and post-construction (occupancy) phases. These services may include but are not limited to:

- Design intent and commissioning planning documentation
- Design review (review of the design consultant's documentation)
- Commissioning specification development
- Pre-functional checklist development
- Functional test development
- Commissioning evaluations / reports
- Post functional, long term operational testing
- Assessment of existing facility systems
- Start-up assistance
- O&M documentation review as well as preparation of supplemental information