



TAKE AWAY

Concept

- Develop Cx Plan
- Develop Pre-Functional Checklist
- Develop Functional Performance Tests
- Review Submittals
- Conduct site visits and equipment testing
- Develop Final Report

Features

- 5,630 Ton chiller
- 2,800 Ton chiller
- (2) Chilled water pumps
- (2) Condenser pumps
- (2) Cooling Tower Cells
- Delta V Control System Expansion

Benefits

- Verification that owner's project requirements were met
- Verification that basis of design was met
- Oversight to ensure successful construction and energy efficiency goals were met

COMMISSIONING AN 8,430 TON CENTRAL PLANT



The University of Illinois in Urbana-Champaign, Illinois awarded Siemens with a contract for the expansion of the Oak Street chilled water plant in 2012. This project was under a guaranteed energy savings contract to be completed in conformance with the provisions of the public university energy conservation act. Siemens retained Chelsea Group to conduct commissioning services on the installed equipment.

The commissioned equipment included the following:

- 5,630 ton dual compressor centrifugal chiller
- 2,800 ton variable speed centrifugal chiller
- Two chilled water pumps with VFDs
- Two condenser pumps with VFDs
- Two cooling tower cells with VFDs
- Expansion of the existing Delta V Control System





ABOUT CHELSEA GROUP

Services

- Mechanical design
- Construction management
- Commissioning
- Energy audits
- IAQ investigations
- Utility incentive support
- LEED® Certification
- ENERGY STAR® support

Qualifications

- 25 year track record of successful performance
- Winner of 2015 AEE Energy Project of the Year for Region V
- Hawaii Energy Clean Energy Ally
- ENERGY STAR Executive Member of Certification Nation
- Over 15 million square feet of LEED certified projects

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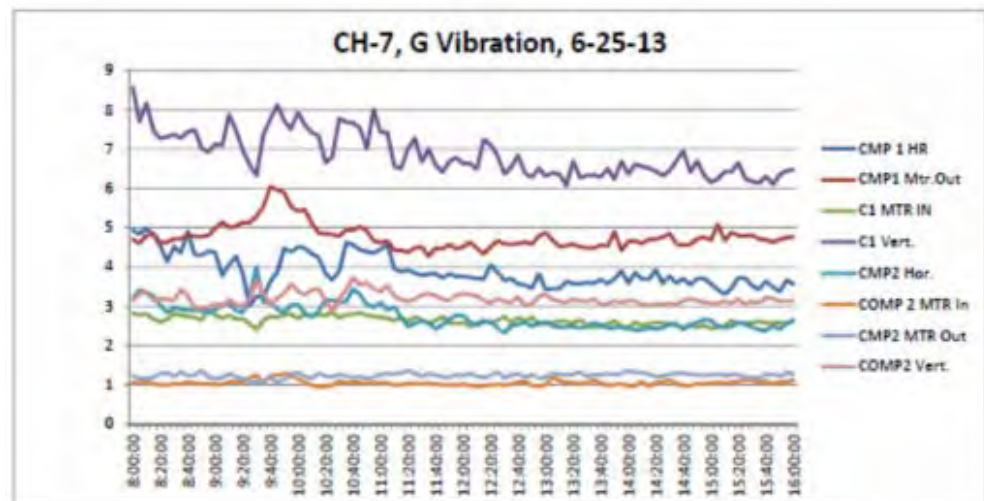
See what we're up to:



GOALS

The project included the following goals:

- Develop the commissioning plan for the project
- Develop the pre-functional checklists
- Develop the functional performance tests
- Review the submittals for conformance to the construction documents
- Conducting periodic site visits to observe construction progress and leading the functional performance testing
- Develop final report of findings



RESULTS

Trend logs were conducted of all equipment to verify proper performance. During the functional performance testing, some issues were discovered, which included readings not tied into the Delta V system and an inoperable starter for one of the chillers. However all issues were resolved, and with the help of Chelsea Group’s commissioning and verification services, the central plant is now up and running successfully and efficiently, as was initially intended.

