



Penn Medicine Lancaster General Health New Energy Center Commissioning

PROJECT INFORMATION

CONCORD DIVISION

Commissioning

PROJECT LOCATION

Lancaster, PA

MARKET

Healthcare

SERVICES

Commissioning

CONSTRUCTION COST

\$45 Million

ABOUT THE CLIENT

Lancaster General Health (LG Health), a member of the University of Pennsylvania Health System (Penn Medicine), is a 663-licensed bed not-for-profit health system with a comprehensive network of care encompassing Lancaster General Hospital (LGH), Women & Babies Hospital and the Lancaster Rehabilitation Hospital (in partnership with Kindred Healthcare).

(856) 427-0200
CONCORD-ENGINEERING.COM



PROJECT SUMMARY

Concord Engineering was hired as the third-party commissioning agent for the project which included both the construction phase and warranty phase. The project consisted of a 3.5 MW Combined Heat and Power Plant delivering 12,470 Volts and 19,000lbs/hr of steam. In addition, the project included 4 MW of Diesel Emergency Generators.

Concord Engineering was instrumental during the project, but not only during the commissioning phases of the project. Because of the extensive hospital CUP and CHP experience, Concord Engineering guided the construction team through the testing preparation and coordination with the hospital. Since the hospital was active during Construction, detailed coordination and planning was required to minimize risk of affecting hospital operations. In fact, through some discussions and knowledge of our experience, Concord Engineering was able to get the hospital to conduct a Black Start test for the plant.

PROJECT HIGHLIGHTS

In addition to Construction Experience, Concord Engineering was able to assist with design troubleshooting to mitigate issues identified within the field including the steam blow-off and lack of water treatment in the existing chilled water system.

Concord Engineering was contracted to perform commissioning on the following systems:

- 3.5 MW Turbine
- (2) 2 MW Diesel Generators
- 1000 Ton Steam Turbine Driven Chiller
- Heat Recovery Steam Generator (HRSG)
- Gas Compressor
- Cooling Towers
- Plate and Frame Heat Exchangers
- Electrical Power Distribution
- Chilled Water Pumps
- New Fuel Tanks