MATT NYQUIST

Director of Power and Infrastructure Engineering

Overview

Matt Nyquist's project engineering and management experience includes mechanical system design, coordinatir design efforts across all engineering disciplines, energy modeling and engineering project management as a membe of a design-build team. His involvement with Distributed Generation and Combined Heat and Power projects ha included initial energy modeling for feasibility assessment, engineer of record, construction and startup support fo gas turbine and reciprocating engine projects.

Education

BS, Mechanical Engineering
The Pennsylvania State University

Professional Licenses & Certifications

Professional Engineer: FL, PA, OH

Select Project Experience

- **Villanova University Distributed Generation Design-Build Project**

Engineering Project Manager for a 6 MW distributed generation facility adjacent to Villanova's existing steam plant. Concord developed the engineering concept to compliment a 3rd party financed business model that emphasized resiliency and hedging the client against PJM ICAP and transmission charges as well local distribution charges. The project includes two simple cycle natural gas fueled reciprocating engine generator packages and one CHP unit. The three units operate in parallel with the utility grid and have the capability of providing standby backup power in the event of an emergency utility failure. Responsibilities included pre-construction development support, engineer of record, procurement of sub-contractors and start-up/commissioning efforts.

- **Eglin Airforce Base Distributed Generation Project**

Project Manager for a 3 MW distributed generation facility located throughout the base. Concord developed the engineering concept to develop a turnkey Energy Savings Performance Contract for the federal government. The project includes two simple cycle natural gas fueled reciprocating engine generator packages and one CHP unit. The three units operate in parallel with the utility grid and have the capability of providing standby backup power in the event of an emergency utility failure. Responsibilities included pre-construction development support and engineer of record.

- **Aberdeen Proving Ground Edgewood Area Combined Heat & Power Plant**

Project Engineer and startup support for a Combined Heat and Power Plant at the Aberdeen Proving Ground Edgewood Area, located in Gunpowder, Maryland. The $30 million project included the installation of a dual fuel 7.9 MW combustion turbine generator, duct fired heat recovery steam generator, selective catalectic reduction system and a packaged fuel gas compressor. The new CHP system was fully integrated into the existing WW1 era boiler plant and required upgrades to boiler feedwater pumps, water treatment, fuel oil storage and conditioning systems. Concord developed the engineering concept to develop a turnkey Energy Savings Performance Contract and provided engineer of record services as part of the design-build team.

- **National Institute of Standards and Technology (NIST) Combined Heat and Power Plant**

Project Manager for a $45 million combined heat and power plant and chiller plant upgrades project at the NIST utility plant located in Gaithersburg, MD. The boiler plant CHP expansion project included a 7.9 MW combustion turbine generator, duct fired heat recovery steam generator and packaged fuel gas compressor. The chiller plant upgrade project included the installation of two 3,500-ton motor driven centrifugal chillers, primary pump VFDs and a free cooling heat exchanger. Concord developed the engineering concept to develop a turnkey Energy Savings Performance Contract and provided engineer of record services as part of the design-build team.