

Fast Track Project Exceeds Savings Expectations

Jewish Home and Hospital Chiller Replacement

Project Description

GENESYS ENGINEERING, P.C. provided a feasibility study, design, construction management and commissioning services for the installation of a new 400 ton gas engine chiller.

Project Challenges

This project began in January 2004, with the goal of being operational by July 1, 2004. GENESYS completed a life cycle cost analysis in three weeks on five different options and presented the findings to Jewish Home and Hospital management. The recommended, and ultimately selected option, was a gas engine chiller.

Due to the aggressive timeline, GENESYS worked closely with the Jewish Home and Hospital engineering and purchasing departments to select and pre-purchase the chiller, recognizing that this was a long lead item, and could compromise the project schedule.

GENESYS completed the design by March 15, 2004, allowing adequate time for procurement and the construction phase.

Benefits and Value

- The chiller plant was up and running by July 1st.
- The project came in on time and under budget.
- The designed system resulted in a reduction in chiller water production costs by over 60%.
- By utilizing waste heat JHHA was able to eliminate boiler plant operation during the summer time, which reduces operating costs, and also improves maintainability of the boilers.
- GENESYS was also retained to integrate this project with a separate cogeneration project.

Services:

Feasibility Study
Design
Construction Administration
Commissioning Provider

Total Project Cost:

\$1.2 Million

