

BROOKLYN NAVY YARD
DEVELOPMENT CORPORATION

Steam Distribution



Goals and Challenges

With 300 acres, the Brooklyn Navy Yard Development Corporation (BNYDC) is the not-for-profit organization that serves as the real estate developer and property manager of the Yard on behalf of its owner, the City of New York. The Yard is now home to over 330 businesses and employs more than 7,000 people. Willdan|Genesys served as the prime consultant for the study and design of the replacement of a portion of the high pressure steam distribution system at the Brooklyn Navy Yard in order to accommodate further development of the site.

Solutions and Results

The steam distribution project included a study phase to evaluate different routes for above-ground and below-ground distribution piping, to evaluate different alternatives for below-ground piping, to optimize the pipe sizing, and to provide a life cycle cost analysis. The project also included design and construction management services.

During the design phase, test pits were dug and Ground Penetrating Radar (GPR) utility surveys were conducted to identify the potential underground interferences in order to minimize the installation costs.



As prime consultant, Willdan|Genesys provided management and mechanical engineering in-house and managed subcontractors for all other services. Willdan|Genesys also served as the construction manager for the project with responsibilities that included bid solicitation, contract negotiations, contract awards, construction oversight, change order negotiation, start-up and commissioning, and project closeout.

Improvement Details

- Engineering Analysis
- Engineering Design
- Construction Management
- System Optimization