

MEP Design – Health Care NY City Health & Hospitals Corp. Mechanical, Electrical and Plumbing Term Contract Brooklyn, New York

EME Group, under Term Contract with the New York City Health and Hospital Corporation (HHC), provided MEP design services to their portfolio of hospitals and health care facilities for six years. During this time we completed projects at the following facilities:

- Harlem Hospital, New York, NY
- Queens Hospital, Queens, NY
- Lincoln Hospital, Bronx, NY
- Kings County Hospital, Brooklyn, NY
- Jacobi Medical Center, Bronx, NY
- Metropolitan Hospital, New York, NY
- Coney Island Hospital, Brooklyn, NY
- Elmhurst Hospital, Queens, NY
- North Central Bronx Hospital, Bronx, NY
- Sea View Nursing Home and Rehabilitation Center, Staten Island, NY
- Morrisania Diagnostic & Treatment Center, Bronx, NY
- East New York Diagnostic & Treatment Center, Brooklyn, NY
- Coler Goldwater Nursing Home, New York, NY
- Crown Heights Health Center
- Dr. Susan McKinney Nursing & Rehabilitation Center, Brooklyn, NY
- 125 Worth Street, New York, NY
- 160 Water Street, New York, NY
- 346 Broadway, New York, NY

The types of work that we performed for HHC varied from specialized analyses to standard mechanical, electrical and plumbing design to rehabilitate clinics, emergency departments, administrative offices and operating suites.

An example of the types of specialized analysis that we conducted include an assessment we completed on the emergency power systems at selected locations. After the electrical blackout that covered the eastern United States occurred in 2003, HHC took the opportunity to assess the performance of its existing essential electrical systems in all of its facilities and assigned eight facilities to EME Group to evaluate. This evaluation includes document review, field surveys and staff interviews to assess equipment condition, operations, code compliance issues, capacity and identifying which areas are on emergency power. We performed condition surveys on each emergency



Emergency Generator

generator, power distribution system, automatic transfer switches, and the diesel fuel storage and distribution systems. We also reviewed code compliance issues and identified systems for compliance with NYC Building Codes, JCAHO regulations and NFPA requirements and identified \$26-million in capital required to upgrade these systems and to provide 100% emergency backup power to areas and loads designated as essential.

Representative of the design work we completed was the project we completed for a Microbiology Unit at Elmhurst Hospital. Due to the nature of the work being done, several rooms were required to be designed as be Biosafety Level III (BSL-3) containment areas as defined in the CDC Biosafety in Microbiological and Biomedical Laboratories (BMBL) 4th Edition with the exact ventilation requirements.

During the schematic design (SD) phase we sorted out the various code and design issues including demolition, loads analysis, acid waste requirements and the preliminary layout. The SD documents were issued for review and comment. During the design development phase (DD) we resolved the remaining code issues and furthered the mechanical, electrical and plumbing design to approximately 75% completion. After the DD review we completed the construction (CD) documents including the final drawings and specifications and the cost estimate. We assisted with the bidding including conducting a walk-through and responding to questions. We provided construction administration including attending meetings, periodic work review, maintained the submittal log and final inspections.