

Commissioning – Health Care Harlem Hospital Center New Patient Pavilion New York, New York

EME Group is commissioning the New Patient Pavilion, an 180,000 GSF acute care medical center on the Harlem Hospital Campus in Harlem, New York. As part of this project, EME Group is commissioning the new 4,800-ton central chiller plant, a 6,000 GSF facility located in the Martin Luther King Pavilion. Total construction cost is \$325-million.

On this project EME Group is implementing the DASNY Commissioning Guidelines, which adhere to ASHRAE Guideline 0-2005 commissioning procedures with supplemental activities based New York State requirements.

Commissioned Hospital Building Systems:

- Air Handling Units
- Self-Contained Air Conditioning Units
- Return & Exhaust Fans
- Heating & Ventilation Units
- HVAC Ancillary Systems including Unit, Cabinet and Radiant Heaters
- Hydronic Pumps
- Computer Center AC Units
- Dry Coolers
- Steam Pressure Reducing Valve Stations
- Condensate Receiver and Pumping Systems
- Humidification System
- Building Management Systems
- High, Medium & Low Pressure Ductwork
- Fire Protection System
- Medical Gas System
- High, Medium and Low Pressure Steam Pipe
- High, Medium and Low Pressure HW Piping
- Duct System Protection During Installation
- Ventilation Air Quality Monitoring Systems
- Main Electrical Switchgear
- Transformers
- Electric Panel Boards
- Lighting Controls

Commissioned Central Chiller Plant Systems:

- 2- 1600 ton Centrifugal Chillers
- 1- 1600 ton Steam Turbine Chiller
- CHW Pumping System and Controls
- Cooling Towers
- Condenser Water Pumping Systems and Controls



Harlem Hospital Center New Patient Pavilion

The New Patient Pavilion is part of a major modernization for the hospital campus, which includes the construction of the 180,000 GSF Pavilion, and the renovation of approximately 120,000 GSF Martin Luther King and Ron Brown Pavilions. The New Patient Pavilion will house an Emergency Department, Examination/Treatment, Operating Suites, Endoscopy and other procedure spaces, including Recovery and Prep Area, Central Sterile, Angiography, Gamma Camera, Intensive Care Unit, and a Dialysis Unit.

EME issued a comprehensive commissioning plan, developed commissioning specifications for the design team that included 1000, 15000 and 16000 series specifications. EME provided design review at the Design Development (DD) and Construction Document (CD) phases focusing on system functionality, system maintainability, and overall system energy efficiency. Pre-functional checklists were developed, issued and verified. Functional testing procedures are 90-percent completed specifically the chiller plant and plant's ancillary systems including main electrical systems.