



LITTLE COMPANY OF MARY  
HOSPITAL AND HEALTH CARE CENTERS

*The Technology to Heal, the Mission to Care*

HESNI 3<sup>rd</sup> Quarter Meeting  
September 13, 2012

# TRANSFORMATION PROJECT: WEST PAVILION/CENTRAL PLANT

# Project Team

- Very collaborative team
- Little Company of Mary
- Hammes – Owner's Rep
- VOA- Architect
- KJWW- Engineer
- Power Construction Co - GC

# West Pavilion Overview

- First Phase of multi-phase transformation project
- Approximately 290,000 square feet
- 8 floors plus basement and roof mechanical
- Includes:
  - Lab
  - Pharmacy
  - Data Center
  - Kitchen
  - Served/Cafe
  - Women's Services
  - C-Section, LDR, and Nursery (including Special Care)
  - 100 Private Patient Rooms
  - Administration Functions

# West Pavilion Schedule

- 21 months to Substantial Completion
- 80 Days from Substantial Completion to full occupancy
- Included a Project Labor Agreement which included a no-strike clause.
- Cast in Place Concrete Structure (\_\_\_ CY)
- Virtually no moisture mitigation required due to normal weight concrete and use of dissipative concrete sealer

# West Pavilion Mechanical

- Custom Roof Mounted AHU
  - 264,000 cfm
  - 4 units – common vestibule
  - Integral duct silencers
- 4 additional AHUs – approx. 35,000 cfm each
  - Duct mounted silencers
- Fan array type configuration
- UV light emitters in AHUs
- VAV controls

# West Pavilion Electrical

- Split building power distribution
- Two 2500kVA double-ended substations
- Separate bus duct risers
  - Normal power
  - Critical power
- Distributed transformers

# Central Plant Mechanical

- Chilled Water
  - 4 new 700 ton units – space for 5<sup>th</sup>
  - 4 new cooling towers
  - Common sump below towers
  - Existing chiller and tower in old plant remains
  - Chiller optimization program
- Steam
  - 4 new 500 bhp dual fuel boilers
  - Steam to H<sub>2</sub>O heat exchangers

# Central Plant Mechanical

- Domestic Water
  - Triplex pressure booster system
- Redundant risers for flush valves
- Domestic Water Heaters
  - Six shell and tube heat exchangers
- Diesel Fuel – boilers and generators
  - Two 35,000 gallon underground tanks
- Med Gas
  - Bulk oxygen
  - Medical Air
  - Medical vacuum



# Central Plant Electrical

- Two 15kV ComEd services
- 4160 volt distribution
  - North Pavilion
  - Convent
- 480 volt distribution
  - 3750kVA Double ended substation
  - Serves all plant loads

# Central Plant Electrical

- Three 2000kW/2500kVA diesel generators
  - Paralleling switchgear
  - Load shedding/ATS control
  - Load bank for testing
  - Ability to run any piece of equipment
- Complete power monitoring system
- Temporary power