2014 Action Plan

- 1. Optimization of building HVAC Systems:
 - A. Balancing of air side HVAC systems to ensure proper distribution and pressure.

Work was completed by April 2014. Since completing work GMC has annual balancing done to verify distribution and pressures.

B. Conversion of MOB constant-volume systems to variable air volume.

Work was completed by September 2014. Scheduling of occupied/un-occupied settings has allowed the space to use less energy in off hours.

C. Study operation of run around heat recovery to determine upgrade potential.

Work was completed by June 2016. Renovations took place within the Inpatient and Birthing centers which incorporated new chilled water cooling units, and utilization of existing baseboard heating systems.

- 2. Optimize lighting, IT systems, and plug loads across campus:
 - A. Explore lighting audit for targeted applications across hospital.

Lighting design program was initiated by hospital November 2017 with Efficiency Vermont. GMC plans to develop cost estimates spring/summer 2018 for implementations October 2018 within the main hospital.

B. Pilot use of plug-load controllers to determine deployment opportunities.

IT loads within previous server room were metered for accurate energy usage. New server room was constructed based on accurate loads and put into service at the end of September 2017.

- 3. Upgrade of chilled water plant systems:
 - A. Purchase and install new chiller.

Installation of 90 Ton Chiller was completed by September 2014.

B. Installation of eGuage power sub-metering to monitor chilled water systems.

Work was not performed.

- 4. Analyze use of waste heat to supplement hot water loads:
 - A. Flow monitoring of domestic hot water loads.

The domestic hot water systems were reviewed by engineering firm to identify flows and zones. Several deficiencies were found and corrected.

- 5. Build operations and maintenance practices to reduce energy use:
 - A. Build a cross-departmental Energy Team and kick off regular meetings.

Gifford Medical Center established an Energy Committee host the first meeting in October 2017. The committee meets monthly.

B. Hold an informational seminar for hospital employees.

Facilities shares Energy information to staff through an internal monthly news publication, as well as a bi-weekly all staff memo.

C. Establish policies to reduce energy consumption for lighting systems.

Gifford Medical Center has established Energy Star purchasing within the facilities department. All future lighting installations are LED.

D. Verify Operational control strategies and scheduling for HVAC systems.

Facilities have made several updates to the HVAC DDC programing with regards to scheduling and sequence of operations. GMC is continuously commissioning all mechanical systems.

E. Establish purchasing specifications for energy efficient equipment.

Gifford Medical Center has established Energy Star purchasing within the facilities department.