

UNC Health Care System  
 Report to the Medical Staff of the Executive Committee  
 Medical Devices Safety Subcommittee  
 2010 Annual Report

**Medical Engineering**

2010 Preventative Maintenance Completion Rate	
January 1 – March 31	99.2%
April 1 – June 30	99.4%
July 1 – September 30	99.2%
October 1 – December 31	99.5%

Medical Engineering is continuing to monitor the completion rate for the drug library push to the infusion pumps with a 95% completion rate within 14 days. In an attempt to meet and maintain this performance measure, a memo was sent to Nurse Managers to remind staff to update the drug library on the infusion pumps which takes approximately 20 minutes to complete. If nursing cannot take the time to update the pump, it was suggested the unit call Patient Equipment to switch out the pump with one that has already been updated.

**Risk Management**

Equipment Problems Reported to Risk Management			
Quarter	No Injury	Temporary Injury	Permanent Injury
January 1 – March 31	30	3	0
April 1 – June 30	21	5	0
July 1 – September 30	34	0	0
October 1 – December 31	38	3	0

**Plant Engineering**

Time Period	Number of Preventive Maintenances Scheduled	Number of Preventive Maintenances Completed
January 1 – March 31	1926	1926
April 1 – June 30	1926	1926
July 1 – September 30	1909	1909
October 1 – December 31	1903	1903

Normal power was lost to several areas of the hospital due to a Duke Power circuit tripping at UNC's Manning substation in March. The Duke Power feeder tripped, disconnecting those hospital buildings fed by this service. Normal power was off in the affected areas of the hospital for the duration of the outage which lasted approximately fourteen minutes. There were no adverse sequela as a result of this incident.

## Other Agenda Items

Plant Engineering commenced renovations to increase the number of electrical outlets available in the operating rooms. Just under \$1,000,000 was allocated for the project, with the highest patient volume operating rooms taking priority. Renovations are scheduled to finish in June 2011.

An issue involving Environmental Services using red outlets as the electrical source for floor buffer which caused a breaker to trip resulting in the loss of power to patient care equipment was presented to the committee. Although the red outlets throughout the hospital are backed up by generators, they are only activated if the building loses power from the UNC Distribution System. The red outlets will lose power if a circuit breaker is tripped. Environmental Services was contacted and asked to remind staff not to use the red outlets. Plant Engineering provided additional outlets in the area for Environmental Services to use.

The committee reviewed the Use of Privately Owned or Leased Patient Care Equipment policy as the Joint Commission has stated that hospitals are responsible for the patient once they are here and therefore are responsible for making sure privately owned medical equipment is cleaned and in proper working condition. There is a risk of infection with improperly maintained equipment. A risk-assessment was completed to see if changes should be made to the current policy. The results showed that the existing policy is appropriate with minor modifications needed to address not including the equipment in the Medical Equipment Management Plan or the Medical Equipment Inventory, procedures for malfunctioning equipment, and the use of patient-owned nebulizers. No adverse events or other data suggests a problem with the current policy. Incident reports will be monitored for any issues and if any are identified, this policy will be reviewed.

UNC Hospitals determined that the preventive maintenance services that were being provided by Hill-Rom to maintain and repair patient beds were not being performed according to their own standards, and that UNC Hospitals had not received the level of service that was agreed upon and paid for. UNC Hospitals notified Hill-Rom of the significant deficiencies in the preventive maintenance services provided and all beds have now been serviced and repaired as needed.