

Energy Monitoring Improved with PDS Consulting

Power Distribution Solutions

Challenge

As critical applications come, a hospital is pretty critical... literally life or death. So maintaining equipment up time as well as maintaining visibility to the facility infrastructure becomes vital to the personnel managing the hospital.

The end user did not want to lose their communications link to the Siemens Power Meters or any of the vital infrastructure equipment, such as generators or automatic transfer switches, during a loss of utility power at the facility.

It became evident during the review of the design of the Siemens Low Voltage Switchgear and Siemens Power Monitoring system, that the power meters installed in our switchgear may lose power when the utility power is lost, preventing the data from being sent to the Power Monitoring System. Additionally, the network hardware was found to not be supported by a back up power source as well.

This would mean the end user would be blind to the status and loading of the electrical equipment at a critical time when the facility is in transition from failed utility power to backup generator power. This is when the power monitoring system is most important and a vital tool to the facility engineer.

Solution

Siemens proposed a new internal control power solution for the switchgear. It would utilize a 3 KVA UPS and be wired to all of the required control components allowing them to be powered continuously during any normal power source outage. The Siemens team of consulting

application engineer, power solutions engineer and factory engineer proposed the solution that ultimately addressed the issue. Additionally, UPS units were provided in each of the critical communications enclosures through out the hospital complex.

Results

The Siemens power monitoring system, through transitions from utility power to generator power, has maintained its communications and live status of vital electrical equipment within the facility. This has allowed the hospital engineers and technicians to verify proper operations of control systems, as well as respond quickly and accurately to issues or failures as they arise.

This revised design is now being incorporated into the standard specifications by the consulting engineer for the government hospital.





Siemens Solution for Healthcare

As a global leader in the healthcare segment, Siemens is focused on minimizing your risk, supplying safer and reliable equipment and servicing support. Siemens has dedicated project teams that understand and manage project processes and milestones to support comprehensive products and solutions that are

backed by on-call service and support, driving lower long term construction and operating costs. Our solutions support healthcare facilities such as hospitals, clinical labs, medical office buildings, nursing homes, and more.

Reliable and precise monitoring of electrical power systems

Siemens Power Distribution Solutions recognizes that high performance facilities make for high performance business. Energy is the lifeline of your business, and better efficiency and sustainability can have a large positive impact on your bottom line.

and availability of your business. With our advanced meters and controls, you can be sure to use only the energy you need, when you need it.

The Energy Management and Control Systems from Siemens provide a complete enterprise solution that can help you manage the energy costs

Siemens Power Distribution Solutions can also contribute toward achieving LEED® certification and provides the needed energy metering data for federal/local government energy reductions programs.

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