



Case Study Medical Center – Omaha Metering Project

This Medical Center consist of a large sprawling inner city campus of research, operational and hospital facilities of various size shapes and ages. The facility management staff of the campus is preparing for the addition of a very large research facility that will be built in the middle of campus over the next several years. Part of this preparation includes capacity planning for their power grid system. They needed our help in determining the various electrical load profiles of the different building. With over 125 transfer switches on campus and a very short window of opportunity, this was a daunting task. P3 was commissioned to record and analyze the power requirements of the 75 highest capacity transfer switches on campus over a 6 week period.

We started by securing 8 Dranetz PX5 power quality meters and related support equipment. Once the equipment was assembled, we scheduled meter placement and installation with a qualified electrician that was familiar with the facility staff and the electrical distribution system. We scheduled 8 meters to be placed on the transfer switches and monitored power for 3 days. After the 3 days, we downloaded the data and reset the meters. The meters were then placed on another set of scheduled equipment. This process went on every 3 days until all 75 transfer switches were evaluated. The process went on throughout the summer. Things went so smooth with the first 75 switches, they added 5 more locations for a total of 80 transfer switches metered and evaluated in 6 short weeks.

Once the metering and evaluation was complete, the data was assembled in 5 sets of 3 inch, 3 ring binders with a summary page, location tabs as well as digital copies on flash drives. The project was wrapped up and delivered without any extended issues or concerns. The customer was happy to have this over burdening project accomplished on time and on budget.

Power Protection Products, Inc. specializes in the products, services and software that will enhance power quality, energy efficiency and data center optimization. The Company also provides turnkey data center solutions and power quality studies. We focus on reliability, understanding and optimization of your power and cooling needs.