

PES 2008 General Meeting Technical Tours

Power Quality Laboratory Tour - Eaton Corporation



Qty Two (2) Tours Available: (Information Subject to Change Without Notice):

Tour # 1MO21PM Monday July 21, 2008

Tour # 1WE23PM Wednesday July 23, 2008

Registration: On Line at PES-2008 Website

Tour Cost: See Registration

Tour Capacity: 28 People Maximum Per Tour

Tour Duration: Departs Convention Center 1:00 pm Returns 5:00 pm



The Eaton Power Quality Laboratory is a 6,000 square foot facility with a full scale power system used to demonstrate and test common power system problems and solutions. The facility is broken down into five (5) main areas representing many of the power system components used in today's commercial, industrial, institutional and residential power systems.

- **Main Power System** – Three sources of power (normal, alternate/backup source, and power quality source) are used to generate bad power quality symptoms. The subsystems (commercial, industrial, data center and residential) systems are exposed to various levels of power quality disruption based on these variable sources on the Main Power System. The entire system is monitored and the monitoring system is used to demonstrate power quality and energy management symptoms and solutions.
- **Commercial Power System** – Represents the type of equipment found on a typical commercial power system including UPS, transformers, surge protection, transfer switches, voltage regulation, lighting control, hundreds of computer power supplies and much more. Demonstration of voltage sags on a typical commercial power system show the effect on lights and digital alarm clocks – something that every user of electricity can relate to.
- **Industrial Power System** – Represents industrial equipment including variable frequency drives (VFD), harmonic solutions, power factor correction equipment, motor starters, motor control centers (MCC), Busway, HID lights, and much more.
- **Data Center Power System** – Shows data center equipment and solutions including UPS, PDU's and monitoring solutions all in a raised floor environment.
- **Residential Power System** – Shows energy efficiency solutions, arc fault circuit protection, backup generation, surge protection, and many other solutions found in homes, dorms and other residential facilities.

Additional Information: www.eaton.com/EatonCom/Markets/Electrical/ServicesSupport/Experience/index.htm