

COMMISSIONING EXPERIENCE

Cooley Town Center, Lansing, MI

Project consisted of a complete LEED commissioning of the 60,000 square building. The mechanical system consisted of water source heat pumps and outside air being delivered by 4 energy recovery units. The water side cooling system was a cooling tower and heating side was a steam to water heat exchanger. We led meetings with the owner and contractor through the construction phase to ensure everyone understood their role throughout the commissioning process; created and gave out pre-start up forms and start up forms for each piece of equipment and system. Before the building was ready to be turned over to the owner, a complete systems evaluation was performed and was able to make adjustments to make the systems maintain better space control and operate more efficiently.

Duffy Daugherty at MSU, East Lansing, MI

Project consisted of a complete commissioning of the 250,000 square foot existing building. The mechanical system consisted of chilled and hot water air handling units. Some of the air handling units were single zone and other ones served a VAV system. The detailed evaluation of the HVAC systems found many items that we were able to be fixed to make the system more energy efficient and provide much better space temperature control. By using 16 temperature and humidity data loggers we were able to verify the temperature difference before and after commissioning.

Hopevale Church, Saginaw, MI

Project consisted of a complete commissioning of the 52,000 square foot new building. The mechanical system consisted of single zone roof top units and energy recovery units. The evaluation of the mechanical system during the commissioning process found that many of the items that were called out to be monitored and controlled in the construction documents were not being controlled. Many of the units were also in occupied mode continuously using large amounts of energy. We found many other items that increased comfort and saved energy.

Wharton Center at MSU, East Lansing, MI

Project consisted of a complete commissioning of the 530,000 square foot existing building. The mechanical system consisted of chilled and hot water air handling units. Most of the air handling units were single zone. The detailed evaluation of the HVAC systems found many items that we were able to be fixed to make the system more energy efficient and provide much better space temperature control. Matrix also evaluated the electrical system to enhance the lighting system and save energy. By tracking the energy usage before the commissioning process we were able to verify the energy savings before and after commissioning.

International Center at MSU, East Lansing, MI

Project consisted of a complete commissioning of the 130,000 square foot existing building. The mechanical system consisted of chilled and hot water air handling units. Some of the air handling units were single zone and other ones served a VAV system. The detailed evaluation of the HVAC systems found many items that we were able to be fixed to make the system more energy efficient and provide much better space temperature control. Matrix also evaluated the electrical system to enhance the lighting system and save energy. By tracking the energy usage before the commissioning process we were able to verify the energy savings before and after commissioning.

Spartan Stadium at MSU, East Lansing, MI

Project consisted of a complete commissioning of the 425,000 square foot existing building. The mechanical system consisted of chilled and hot water air handling units. The detailed evaluation of the HVAC systems found many items that we were able to be fixed to make the system more energy efficient and provide much better space temperature control. Matrix also evaluated the electrical system to enhance the lighting system and save energy. By tracking the energy usage before the commissioning process we will be able to verify the energy savings before and after commissioning.