



Charnley-Persky House Chicago, Illinois

Architectural Consulting Engineers (ACE) was the mechanical engineering consultant for an Energy Use & MEP Systems Assessment for the National Historic Landmark Charnley-Persky House, which houses the offices of the Society of Architectural Historians. This report looked at the building envelope and mechanical, electrical & plumbing (MEP) systems to determine their condition, how they were performing, and whether there were recommendations for improvements to enhance performance, reliability and energy efficiency.

As part of the study we also prepared an energy use model to look at how any recommended improvements to the building envelope and systems would affect the building operating costs. We created the model using the gathered information about the existing building and systems along with owner provided monthly utility bills to create an accurate computer simulation. We were then able to modify the model based on our recommended improvements to see how these improvements impacted the annual operating costs for the building.

Based on our review of the building, the building systems and the energy model we created a prioritized list of recommended improvements to address the operational and performance deficiencies found in our analysis.