

1.0 Executive Summary:

The purpose of this report is to summarize the existing mechanical systems in the Hilton Baltimore Convention Center Hotel (HBCCH). Design objectives and requirements, as well as energy sources and their corresponding rates, are studied in order to better understand the design criteria for the HBCCH. Influential cost and site factors are also considered, eventually conveying the fact that district chilled water and steam systems were good system choices.

Outdoor and indoor design conditions and design heating and cooling loads are presented, and schedules of major mechanical equipment and schematics of their use in the HBCCH are included. A description of system operation is discussed in order to provide further understanding of the building's mechanical systems. Lastly, a critical evaluation of the system is carried out. The purpose of this critique is to bring together the results of all the Mechanical Technical Reports in order to identify possible opportunities for redesign and study.

