

1.0 Executive Summary:

The purpose of this report is to summarize the information obtained throughout the completion of the Mechanical Technical Assignments, in an effort to propose a mechanical system redesign for the Hilton Baltimore Convention Center Hotel (HBCCH). If approved, this proposal will serve as a guideline for research to be followed throughout the spring semester.

Once alternatives for redesign are summarized, the proposal describes the final proposed redesign. Ultimately, the main thrust of the redesign is the elimination of the district chilled water system in favor of on site cooling. This redesign is justified based on the objectives of reduced life-cycle cost and energy consumption. Coordination and integration are then discussed, leading to the elaboration of related breadth work to be completed. Lastly, a tentative work schedule for the spring semester is created.

