



Dubai International Airport

Dubai, United Arab Emirates

Airside Logistics Master Plan

Dubai Airports Company | 2011 – 2014

BNP was requested to prepare a masterplan study for the airport-wide Baggage Handling Systems (BHS) by the Dubai Airports Company. The airport-wide BHS masterplan study determined the optimal incremental development for all baggage systems throughout the airport including current and future terminals and concourses from present day through the ultimate airport capacity of more than 80 million passengers.

BNP performed extensive requirements analysis to determine the demand and resulting baggage flows in various development stages and configurations. As part of the study BNP provided a schematic level dynamic capacity simulation tool to allow the airport to quickly analyze the impact on the baggage systems of any proposed flight schedule changes and to prove the proposed configurations satisfied the demand at each development stage.

Since Emirates Airlines is the primary airline at this airport with a very substantial hub operation split over multiple facilities BNP proposed a “BHS backbone” which would interconnect the various BHS processing areas to enable efficient handling of transfer bags and provide a reduction of the critical GSE traffic generated by the baggage handling process.

To minimize capital investment an innovative solution was found which included new construction but also re-purposed parts of the existing systems and basements to achieve a “BHS backbone”. BNP also proposed bag factories located at remote stands and connected to the “BHS backbone” to assist in the handling of flights at remote stands.

The project included the development of BHS “User Requirements Specifications” which provide high level BHS planning requirements as well as specific detailed BHS requirement to ensure minimum standards and consistency for all future BHS development across the airport.



ASSOCIATES, INC.

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SCOPE OF SERVICES

Master Planning