



HAMAD INTERNATIONAL AIRPORT

Doha, State of Qatar

Baggage Handling Systems

New Doha International Airport Steering Committee
Ongoing

The New Doha International Airport is under construction nearby the current Doha International Airport and upon its completion will replace the current Doha International Airport. In 2006 BNP was retained by the Design and Construction Manager Overseas Bechtel Incorporated to provide BHS design, tendering and construction supervision services. Upon completion of the requirements analysis process BNP coordinated the fast-paced design with the architect HOK.

The hubbing operation and high transfer rates of the primary carrier Qatar Airways in combination with requirements for a very short Minimum Connect Time and security screening of all baggage (including re-screening of transfer baggage) have resulted in a very compact high throughput design that uses a tilt tray technology-based sortation system with integrated 5 level security screening (Advanced Technology X-Ray machines for Level 1 and CT machines for Level 3). The system is designed for use with, but not dependent on, RFID technology for originating baggage as well as transfer baggage. For inbound baggage this airport will be one of the first airports to have a fully inline Customs screening system.

The design includes 5 double sided check-in islands, 10 transfer inputs, 2 tilt tray sorters (540m each), 14 Level 1 screening machines, 6 Level 3 screening machines, 22 make-up carousels, 9 reclaim carousels and a fully automatic early baggage storage system for a total length of 12 km of equipment in the main system. There is also a separate Remote Transfer Facility for special screening functions and rush transfer baggage handling.

BNP provided the design and tendering support services and has since been contracted directly by the Owner to perform the Construction Monitoring services (including submittal reviews, on-site inspections, acceptance testing, and operational start up assistance). The Construction Monitoring services are performed remotely from the Head Office and on-site through full time staff.



ASSOCIATES, INC.

BNP PROJECT TEAM

Damien Breier, Principal
Felix Rosbergen, Project Director

TOTAL CONSTRUCTION AMOUNT

US \$1 Billion

BHS CONSTRUCTION AMOUNT

US \$125 Million

SCOPE OF SERVICES

Conceptual Design
Design Development
Contract Documents
Bidding and Procurement
Construction Administration