



OWNER
CHANGI AIRPORT GROUP

OWNER'S REPRESENTATIVE
MR. LIM HON WEI

BNP PROJECT DIRECTOR
BENEDICT OON

LOCATION
SINGAPORE

COMPLETION DATE
EXPECTED 2017

BHS CONSTRUCTION AMOUNT
US\$ 70 MILLION

REFERENCE
MR. LIM HON WEI
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SCOPE OF SERVICES
CONCEPTUAL DESIGN
DESIGN DEVELOPMENT
REAL-TIME SIMULATION
CONTRACT DOCUMENTS
BIDDING AND PROCUREMENT
CONSTRUCTION SUPERVISION

RELEVANCE
INDIVIDUAL CARRIER SYSTEM (ICS)
INLINE HOLD BAGGAGE SCREENING

BNP has been engaged by Changi Airport Group to provide consulting services for the new Baggage Handling System at the new Terminal 4 as part of Changi International Airport expansion plans. BNP has been contracted for full services from concept design through to construction supervision of the system.

The new T4 BHS is designed to handle 18 million annual passengers. Because of their operational requirements, the client elected to utilize high speed Individual Carrier System (ICS) as the primary baggage handling technology. Check-in and transfer bags are injected into the BHS via conventional conveyors. Once these bags are in the bag room, they undergo Hold Baggage Screening on conventional conveyors. Shortly downstream of the exit of the HBS x-ray machines, bags are loaded onto ICS carriers. The ICS system transports and sorts these bags for the remainder of their baggage handling journey within Terminal 4.

The Terminal 4 BHS comprises 8 check-in rows, which are equipped with a mix of conventional manned and self-service bag drop counters. Hold Baggage Screening is performed using x-ray machines that comply with TSA and ECAC screening standards. Cleared bags are sorted to any of the 8 inclined plate make-up carousels for further handling by the ground handlers.