



# BANGKOK SUVARNABHUMI INTERNATIONAL AIRPORT

Bangkok, Thailand

## New Midfield Satellite Building 1 Baggage Handling System

Airports of Thailand (AOT)

BNP has been engaged by Airports of Thailand (AOT) to provide consulting services for the Baggage Handling System for the new Midfield Satellite Terminal as part of expansion plans for Suvarnabhumi International Airport. BNP has been contracted for full services from concept design through to bidding and procurement of the system.

To meet growing air traffic demand at the airport, AOT embarked on the next phase of expansion at Suvarnabhumi International Airport, which is the construction of a new Midfield Satellite Terminal Building. The new Midfield Satellite Terminal Building is designed to handle 15 million annual passengers. Together with the Main Terminal Building and the Transfer Baggage Terminal Building, the airport can handle total 45 million annual passengers.

The BHS for the new Midfield Satellite Terminal Building is linked to the existing BHS in the Main Terminal Building. Bags from the Main Terminal Building BHS are discharged from the Tilt Tray Sorters and loaded into Individual Carrier System carriers. They are then transported using high speed ICS from the Main Terminal Building to the Midfield Satellite Terminal Building. The part of the tunnels linking the Main Terminal Building and the Midfield Satellite Terminal Building are already constructed hence BNP had to work the BHS design within constraints of the existing tunnels.

Since the BHS for the new Midfield Satellite Terminal Building connects to the existing BHS in the Main Terminal Building and the Transfer Baggage Terminal, much care and consideration must be put into the phasing in of the BHS system modification.

In addition, provisions for future system expansions are put in place to ensure that AOT can seamlessly modify the BHS for system expansions beyond the Midfield Satellite Terminal Building.



ASSOCIATES, INC.

### BNP PROJECT TEAM

Damien Breier, Principal  
Benedict Oon, Project Director

### BHS CONSTRUCTION AMOUNT

US \$100 Million

### REFERENCE

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### SCOPE OF SERVICES

Conceptual Design  
Design Development  
Contract Documents  
Bidding and Procurement