



BANGKOK SUVARNABHUMI INTERNATIONAL AIRPORT

Bangkok, Thailand

Hold Baggage System and BHS High Level Control Replacement
Airports of Thailand | Completed 2020

BNP has been engaged by Airports of Thailand (AOT) to provide consulting services for the Replacement of Hold Baggage Screening System and the Baggage Handling System High Level Control System for the existing Main Terminal Building at Suvarnabhumi International Airport. BNP has been contracted for full services from concept design through to construction supervision of the project.

The project includes three main scopes:

1. To provide crossover conveyors between the two-hemisphere screening matrix.
2. To replace the current EDS machines with high throughput EDS machines.
3. To upgrade the current HLC system and relocate the BHS control room to a new location.

The current baggage system in Bangkok airport can be segregated into west hemisphere system and east hemisphere system. Each hemisphere has its relatively independent check-in subsystem, screening subsystem, and sortation subsystem. While crossovers are provided at tilt tray sorters to have bags sorted across hemispheres, the airport decided to add new crossovers conveyors before the screening matrix to provide redundancy and load balancing between two hemispheres screening matrix.

The current EDS machine deployed in the existing BHS is CTX 9400 from Morpho Detection and as the machines are reaching the end of their service life, the existing EDS machines are replaced with new EDS machines that have a higher throughput. The related work also includes replacement level 2 OSR workstations and level 3 ETD workstations, replacement of conveyors upstream and downstream of the EDS machines, electrical and control system modifications.

The current BHS High Level Control system hardware and operating system software for the existing BHS are no longer supported by the manufacturers and are reaching the end of their service life. This project includes the replacement of the hardware (i.e., servers and network equipment) and the upgrading of all associated software to the latest version that is compatible with the new hardware. The upgrades include BHS servers, storage area network, workstation hardware, operating system, and BHS software. All data within the current system are migrated to the new system.



ASSOCIATES, INC.

BNP PROJECT TEAM

Damien Breier, Principal
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BHS CONSTRUCTION AMOUNT

US \$100 Million

REFERENCE

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SCOPE OF SERVICES

Conceptual Design
Design Development
Contract Documents
Bidding and Procurement
Construction Supervision