



GUANGZHOU BAIYUN INTERNATIONAL AIRPORT

Guangzhou, China

Terminal 2 New ICS Sortation System

Guangzhou Baiyun International Airport Co., Ltd.
2014 - 2017

After several years of designing the new terminal and a conventional baggage handling system at Guangzhou Baiyun International Airport, Guangzhou Baiyun International Airport Co. (GBIA) determined a new ICS system was needed for the new Terminal 2. In September 2014, GBIA retained BNP to study and rework the existing conventional conveyor and tilt-tray sortation system into a 100% ICS-based system.

BNP worked closely with the local architect to integrate the new ICS system within the building's spatial and infrastructure constraints before the completion of the new Terminal 2, of which construction had already commenced prior to BNP's involvement. BNP allocated significant man hours to successfully complete the design work within the shortened time frame.

Furthermore, BNP provided services to validate and enhance the system's performance via in-house simulation tools. BNP's simulation tools are customizable to simulate real-time operational scenarios and multiple fallback scenarios of any system, even to the level of single component failure. The simulation models enabled Guangzhou Airport to understand and plan for any failure conditions that could occur.

The ICS-based system includes throughput of more than 256 bags per minute through the sortation system, built-in RFID capability, extensive rack-based early bag storage, self-bag drop check-ins, innovative direct load transfer into ICS carriers, and many other innovative features.

With the new ICS system, the total capacity of Terminal 2 is now 45 million annual passengers.



ASSOCIATES, INC.

BNP PROJECT TEAM

Damien Breier, Principal
Ben Oon, Project Director
Keith Ong, Project Manager

BHS CONSTRUCTION AMOUNT

US \$126 Million

REFERENCE

Mr. Hsu Sufjan
Guangzhou Baiyun Int'l Airport
Guangzhou, China,
Phone: +86 13650753688
Email: Xusphere@msn.com

SCOPE OF SERVICES

Conceptual Design
Design Development
Contract Documents
Bidding and Procurement