



CHARLOTTE DOUGLAS INTERNATIONAL AIRPORT

Charlotte, North Carolina

Airport Summary
Brief

BNP Associates, Inc. has been doing business at Charlotte Douglas International Airport since 1989. Some of our projects include:

TERMINAL LOBBY EXPANSION (TLE)

As part of the CLT TLE Design Team, BNP performed the baggage handling system design services and is participating in the construction administration services for the new 370,000-square-foot expansion and renovation of the main terminal lobby. The project includes inbound and outbound baggage handling system alterations and additions with related temporary conditions to prevent interruption of ongoing airline services during construction. The outbound baggage system alterations include the replacement of existing Ticket Counter, Oversize, Curbside and FIS Recheck/Re-accommodation input belts, with associated reconfigurations to their respective downstream transport conveyor lines. The inbound baggage system alterations include the replacement of the existing five flat plate and four incline claim devices with seven incline plate claim devices. The inbound system also includes two roller-bed conveyors and associated stainless steel slides for the processing of oversize baggage.

FEDERAL INSPECTION SERVICES (FIS) & CONCOURSE D RENOVATIONS

As part of the CLT FIS and Concourse D Renovation Design Team, BNP performed the design services for the temporary reconfiguration of the FIS Recheck/Re-accommodation input belts and the replacement of the existing inbound baggage claim devices with associated remote feeds. The renovation of the FIS and Concourse D is considered one of the Airport's major upgrades and improvements program to address deficiencies in the size and configuration of the existing facility spaces and to increase passenger-processing capacity to accommodate the forecasted flight schedule for aircraft arrivals of 1400 passengers per hour. The renovation program includes the reconfiguration of Customs and Border Patrol spaces to facilitate a "Baggage First" passenger processing to enable passengers to collect their bags before checking in with a Customs Officer. The overall program includes the replacement of the existing four inclined plate claim devices and provisions to preserve a footprint for a future unit, each with roughly 220 linear feet of passenger presentation.

CONCOURSE E T-POINT AND ABR SUPPORT FACILITIES

BNP was retained by CLT to provide design and construction administration services for a transfer baggage system facility. The completed transfer system was commissioned in May 2019 and turned over for operational use with five transfer input lines feeding a redundant sortation system that consists of two mainlines for the sortation of baggage to three flat plate baggage make-up devices. The overall layout of the sort system includes crossover capability for redundancy purposes.

BAGGAGE SYSTEM REPLACEMENT AND INLINE BAGGAGE SCREENING SYSTEM

In 2010, BNP Associates, Inc. was retained by CLT to provide the design and construction administration services for the inbound, outbound, and inline checked baggage inspection systems. The design consists of two screening matrices of four (west matrix) and five (east matrix) CTX 9800 EDS machines fed by the existing check-in and FIS recheck mainlines. Crossover subsystems have been provided to provide both redundancy and load balancing between the screening matrixes and the associated ticket counter or sortation mainlines.



ASSOCIATES, INC.

BNP PROJECT TEAM

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REFERENCE

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SCOPE OF SERVICES

Analysis Study
Conceptual Design
Design Development
Ergonomic Improvements
Bid Documentation
Construction Administration
Testing & Commissioning