

FORT LAUDERDALE – HOLLYWOOD INTERNATIONAL AIRPORT (FLL) TERMINAL 3 BAGGAGE HANDLING & CHECKED BAGGAGE INSPECTION SYSTEM



OWNER:
BROWARD COUNTY AVIATION
DEPARTMENT (BCAD)

OWNER'S REPRESENTATIVE:
RICHARD WELCH
PROJECT MANAGER
BROWARD COUNTY AVIATION
DEPARTMENT (BCAD)

BNP PROJECT MANAGER:
NICK TRIANTAFILIDIS

LOCATION:
FORT LAUDERDALE, FL

COMPLETION DATE: JUNE 2016

REFERENCE:
PETER McMANUS
JETBLUE AIRWAYS
CORPORATE REAL ESTATE
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SCOPE OF SERVICES:
CONCEPTUAL DESIGN
DESIGN DEVELOPMENT
CONTRACT DOCUMENTS
BIDDING AND PROCUREMENT
CONSTRUCTION MONITORING

BNP was retained by JetBlue Airways, as part of their Architectural and Engineering Design Team, to design a fully automated Baggage Handling and Checked Baggage Inspection System (BHS/CBIS) to the 30% design level and assist JetBlue to solicit bids for a design-build project.

The automated baggage handling and checked baggage inspection system, which was completed in June 2016, was part of an overall Airport program to enhance the baggage handling and security screening operation for Terminal 3. The new BHS/CBIS project, which included modifications to the existing ticket counter and outbound transport lines consisted of a complete reconfiguration and replacement of the old outbound baggage system and the centralizing of the checked baggage screening operation within a new facility space that was constructed at the old F1 aircraft gate which was relocated under a separate construction program.

The layout of the CBIS, which is based on a 3-Level screening process, consistent with the Transportation Security Administration's Planning Guidelines and Design Standards (version 4.2), consists of four (4) L3 3DX 6700ES in-line explosives detection machines for the combined screening of all originating and international to domestic outbound transfer bags that are processed out of Terminal 3. The configuration of the CBIS includes one (1) Baggage Dimensioning Device jointly supported with an Automatic Tag Reader, immediately upstream of the CBIS, to determine the size of baggage destined for screening (i.e., in or out-of-gauge) and bag tag identification for tracking/sortation through the CBIS. The Level-2 screening function takes place in a remote room at east end of the EDS matrix and the Checked Baggage Resolution Area for the Level-3 screening function takes place just south of the EDS matrix.

The baggage sortation system includes a total of seven (7) outbound inclined plate make-up devices, five of which are operated by JetBlue at the south end of the bagroom space and two by other carriers and the north end of the bagroom.