



TAMPA INTERNATIONAL AIRPORT

Tampa, Florida

Outbound Baggage System Security Enhancement Project

Hillsborough County Aviation Authority | 2017 - 2021

BNP Associates, Inc. was retained by the Hillsborough County Aviation Authority to validate the 30% Checked Baggage Inspection System (CBIS) design that was produced by others, and to develop the design to 100%, including TSA approval. Corgan contracted BNP as part of the Skanska Design/Build team for this project.

The premise of the 30% design included the replacement and optimization of the 24 existing explosive detection system (EDS) machines within the landside facility. The new EDS machines and reconfigured outbound baggage system were originally designed to occupy the same space as the existing system, highly complicating the construction phasing plan. Through extensive coordination with the Authority, TSA, and the design team, the CBIS Optimization Project evolved to install the new EDS machines at each of the Airside facilities instead.

The CBIS optimization design reflects the first half of the overall program by implementing the new systems in the A-sort building and Airside C, fed by the East Landside subsystems. The segmentation of the existing BHS and CBIS at the airport facilitates a convenient split of East and West side projects.

The A-sort CBIS design incorporates three new Leidos (formerly L3) eXaminer 6700 ES machines, fed by a baggage delivery configuration that maximizes system redundancy and flexibility. A new Checked Baggage Resolution Area (CBRA) design provides up to ten Level 3 inspection positions.

The Airside C concourse CBIS design incorporates four new Leidos eXaminer 6700 ES machines with a similar conveyor design approach. The new CBRA utilizes dual subsystems for delivery of non-cleared baggage into the room, which contains 16 Level 3 inspection positions. Airside C also required a significant modification to the transport conveyor and sortation subsystems to connect the new CBIS and the existing sortation system.

The East Landside design modifications serve to distribute baggage from the multiple ticket counter and check-in positions to the two distinct Airside CBIS and sortation systems. A new manual encoding subsystem was added to distribute baggage, utilizing the space made available by demolishing the existing system.

BNP is currently providing onsite construction administration for the duration of the construction of the new systems, which are scheduled to complete in 2021.



ASSOCIATES, INC.

BNP PROJECT TEAM

David Mecartney, Principal
Rey Lastra, Project Director
Steve Walker, Project Manager

BHS CONSTRUCTION AMOUNT

\$25 Million

REFERENCE

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SCOPE OF SERVICES

System Analysis
Conceptual & Final Design
Bidding Documentation
Construction Administration
Testing & Commissioning