



CHICAGO O'HARE INTERNATIONAL AIRPORT

Chicago, Illinois

United Airlines Terminal 1
CBIS/Recap

United Airlines | 2012 – 2017

The TSA and the Chicago Department of Aviation developed an Other Transaction Agreement (OTA) to provide optimizations to United Airlines Terminal 1, O'Hare International Airport Checked Bag Inspection System (CBIS), and the associated Checked Bag Resolution Room (CBRA). A vital phase was the initial enabling phase of work which required the installation of a temporary stand-alone screening operation (completed in December 2015) in support of ongoing operations during the demolition and new installation of the basement CBIS and CBRA.

The reconfigured Checked Bag Inspection System is located within the same footprint of the previously existing screening operation in the 240,000 square foot United underground baggage room. In addition to the reconfigured CBIS, the CBRA room was extended to provide added Level 3 screening capacity to handle the projected baggage demand along with enhancements and upgrades to the Mechanical and Electrical Plumbing (MEP) to make for a better working environment. With the advanced technology of the new EDS machines and the higher baggage throughput speeds we can reduce the number of old ageing EDS machines (8) previously installed in the 2005 project and streamline the design with 4 high speed machines. Every phase completed to date, BNP Associates worked hand in hand with the owners and the construction manager to ensure successful project completion and project closeouts.

The screening system consists of four (4) EDS units and receives bags from three separate Transport Feed lines that collect bags from various lobby and curbside check-in locations. One of the Feed lines routes bags to two security screening lines and EDS units while the other two Feed lines merge into a single line and feed two other screening lines and EDS units. The two main CBIS lines that feed the screening lanes have crossover capabilities to evenly distribute the bags based on volume and machine availability. The system provides level two OSR controls along with Level 3 ETD/physical inspection capabilities.

By far the most challenging aspect of this project was construction phasing. As United's largest hub, any impact to the baggage systems affects not only the local Chicago traffic but also the performance of the connecting traffic. Therefore, it was vital to construct the system with specific attention to detail and with numerous fallback operating plans in place. The overall construction program involved various installation phases and coordination on a daily basis.



ASSOCIATES, INC.

BNP PROJECT TEAM

Dave Mecartney, Principal
Terry Cochran, Project Director

BHS CONSTRUCTION AMOUNT

US \$25 Million

REFERENCE

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