

WASHINGTON- DULLES INTERNATIONAL AIRPORT – MAIN TERMINAL EAST & WEST BAG BASEMENTS CHECKED BAGGAGE INSPECTION SYSTEMS



OWNER:
METROPOLITAN WASHINGTON
AIRPORTS AUTHORITY

OWNER'S REPRESENTATIVE:
RICHARD TURNER
PROJECT MANAGER
METROPOLITAN WASHINGTON
AIRPORT AUTHORITY (MWAA)

BNP PROJECT MANAGER:
NICK TRIANTAFILIDIS

LOCATION:
WASHINGTON, DC

COMPLETION DATE: JULY 2015

BHS AMOUNT:
US \$42 MILLION

REFERENCE:
METROPOLITAN WASHINGTON
AIRPORT AUTHORITY (MWAA)
45045 AVIATION DRIVE
SUITE 300
DULLES, VA 20166-7528
TELEPHONE: (703) 572-0285

SCOPE OF SERVICES:
CONCEPTUAL DESIGN
DESIGN DEVELOPMENT
CONTRACT DOCUMENTS
BIDDING AND PROCUREMENT
CONSTRUCTION MONITORING

As part of the Metropolitan Washington Airports Authority Design Team, BNP performed the Baggage Handling System design services and participated in the construction administration services for the new automated Checked Baggage Inspection Systems in the Main Terminal East and West Baggage Basements.

The project implemented current-state-of-technology baggage handling and checked baggage inspection systems, which also involved a complete reconfiguration and replacement of the old outbound baggage systems with a new automated sortation system for the west bagroom and upgrades to the east bagroom Tilt-Tray sortation system – all while maintaining current baggage handling inbound, outbound and security screening capabilities for both the airlines and the Transportation Security Administration (TSA).

The Main Terminal East and West Baggage Basements (EWBB) serve Ticketing Kiosks 1 and 4; Kiosk 1 is operated by a number of Domestic and International carriers and Kiosk 4 is primarily operated by United Airlines, the Airport hub carrier. The overall layout of each CBIS is based on a 3-Level screening process with the implementation of four (4) L3 3DX 6700ES EDS machines – per bagroom (total of eight) – for the combined screening of all originating outbound baggage that are processed out of their respective ticket counters. Each CBIS was also designed to accommodate future high-volume EDS machines when the technology becomes available and certified by the Transportation Security Administration Office of Security Capabilities. The new CBIS for the West Baggage Basement is installed within the existing bagroom space, while the east CBIS involves the construction of a new 3-level, 60,000 sq. ft. addition to the East Baggage Basement. The configuration of each CBIS includes two (2) Baggage Dimensioning Devices, jointly supported with Automatic Tag Readers, 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 and has been consolidated with the Checked Baggage Resolution Area (CBRA) for each bagroom. This is one of many projects that have been designed and constructed at Washington Dulles International Airport (IAD). BNP designed almost all the baggage handling systems at the airport.