





# BOSTON LOGAN INTERNATIONAL AIRPORT

Boston, Massachusetts

CBIS Recapitalization
Optimization Program

Massachusetts Port Authority | 2014 - 2016

In 2002, inline Checked Baggage Inspection Systems (CBIS) were installed and commissioned in various locations in Terminals B, C and E of Boston Logan International Airport (BOS) – one of the first major U.S. airports to implement inline EDS screening to comply with the TSA's 100% checked baggage screening requirement. Terminal A was subsequently constructed with an entirely new baggage handling system that also included an inline CBIS.

BNP designed each of these screening systems, which were state-of-the-art at the time of their installation. However, they were designed well before the existence of the Planning Guidelines and Design Standards (PGDS) established by the TSA in 2009 (and subsequent updates) and therefore differ from some of the design practices that have since become standard in the industry.

The primary objectives of the BOS CBIS Recapitalization/Optimization Program, which was completed June 2016, include the following:

- Provide a centralized location for TSA On-Screen Resolution (OSR) workstations.
- Replace the existing EDS machines with new modern-day equivalents.
- Modify the Checked Baggage Reconciliation Areas (CBRA) to improve performance and/or reduce injuries through improved ergonomics; the design objective being compliant with current PGDS guidelines.
- Where opportunities exist and are achievable within budgetary restrictions, modify, replace and/or combine systems to take better advantage of newer EDS machine capabilities and increase efficiency by potentially reducing the number of EDS machines, associated maintenance costs and staffing requirements.

Once again, the Massachusetts Port Authority has looked to BNP (as a part of their design team) to help them work with the TSA to determine the best solution for each of the various systems, handle the associated BHS design responsibilities, and provide onsite full-time construction administration services, inspections, and testing support.

The resulting designs include eight inline baggage screening systems with a total of 33 inline EDS machines (4 - L3 eXaminer 3DX 6600, 29 - L3 eXaminer 3DX 6700), reduced from 41.

- Five existing screening systems wherein the existing EDS machines were systematically replaced in a phased-in implementation process (within an operational environment), the existing CBRAs reconfigured or replaced to improve ergonomics, comply with current standards, and targeted performance enhancements.
- Three new screening systems to effectively replace several smaller existing systems; providing a more efficient solution for screening the associated bags by reducing the number of EDS machines, associated maintenance costs and staffing requirements.



ASSOCIATES, INC.

### **BNP PROJECT TEAM**

Steve LaPorta, Principal Tom Jennings, Project Director Alex Head, Project Manager

## BHS CONSTRUCTION AMOUNT

US \$75 Million

#### **REFERENCE**

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## **SCOPE OF SERVICES**

Design Development Contract Documents Construction Support