



ONTARIO INTERNATIONAL AIRPORT

Ontario, California

Inline 100% Checked Baggage System

Owner: Los Angeles World Airport | 2003 – 2009

In 2003, the Los Angeles World Airport Authority realized that the existing lobby-based baggage screening at Ontario Airport would not suit the needs of the airport, its traveling public and the airlines. BNP was retained as part of an overall project team headed by CH2M to design an inline EDS system for 100% in line baggage screening.

The recommended design solution included EDS sortation matrix within each of the two terminals. The equipment itself is located within one level of what was the ramp airline make up area. Each matrix includes (3) CTX 9000 Level One machines, Level Two threat resolution and Level Three ETD functions. Each terminal has 5 ticket counters take away conveyors that collect bags from the five airline check-in areas and one curbside line. High Speed Diverters distribute bags from the mainline to one of three Level One machines. Metering conveyors upstream of the machines provide baggage spacing, queue capability and allow for the necessary speed reductions in the conveyors. After screening, cleared bags are transported to the new ramp level make-up units. Alarmed bags are routed within the system allowing the Level Two operators to clear the bags using threat resolution tools. If the bags do not clear at Level Two they are routed to a Level Three ETD area comprised of 8 operator positions. After clearing Level Three, the bags are routed back to the sortation systems.

A new ramp level airline bag make-up area comprising two 220 feet long slope plate make up devices was provided at each terminal in a new facility, the construction of which involved moving out passenger boarding bridges and adding class fixed bridge extensions. Sortation of bags to the make-up device is accomplished through automatic tag reader (ATR) reading the airline code of the IATA bag tag. A fully redundant computerized BHS monitoring and reporting systems were also provided in each terminal.



ASSOCIATES, INC.

BNP PROJECT TEAM

David Mecartney, Principal

TOTAL CONSTRUCTION AMOUNT

US \$35 Million

BHS CONSTRUCTION AMOUNT

US \$15 Million

REFERENCE

Terrance McCarthy
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SCOPE OF SERVICES

Conceptual Design
Design Development
Contract Documents
Bidding and Procurement
Construction Monitoring