



PITTSBURGH INTERNATIONAL AIRPORT

Pittsburgh, Pennsylvania

South Matrix EDS Recapitalization

Allegheny County Airport Authority | 2018 – 2019

The Allegheny County Airport Authority (ACAA) and the Transportation Security Administration (TSA) have undertaken a recapitalization effort to replace the four Smiths Detection CTX 9000 Explosive Detection Systems (EDS) machines for the South Matrix at Pittsburgh International Airport (PIT) with new Smiths Detection CTX 9800 EDS Machines. The existing CTX 9000 EDS machines were approaching technical obsolescence.

The South Matrix CBIS is located within the Landside Terminal, on a structural mezzanine built above the baggage make-up area. The structural mezzanine was designed with openings in the floor adjacent to the existing EDS platforms to facilitate egress and ingress of the EDS machines.

The CBRA for the South Matrix is located on the ticketing floor of the Landside Terminal, and consists of two areas, East and West. Each area is fed by a conveyor which brings non-clear bags up from the respective mainlines of the BHS located on the mezzanine below. The On-Screen Resolution operations area for the South Matrix CBIS as well as the North Matrix CBIS is also located within the South Matrix CBRA.

Modifications and additions to the existing South Matrix BHS generally included what is necessary to replace the existing EDS machines: to provide additional baggage metering conveyors upstream of the new EDS machines, to provide Variable Frequency Drive controlled conveyors to the conveyors before and after the EDS machine to accommodate the belt speed of the new CTX 9800 EDS machine, to provide a light curtain upstream of the new CTX 9800 EDS machines for true leading edge detection, and to provide additional CBRA equipment (4 new Baggage Inspection Stations plus associated Explosive Trace Detection equipment) in the South Matrix CBRA.



ASSOCIATES, INC.

BNP PROJECT TEAM

David Mecartney, Principal
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BHS CONSTRUCTION AMOUNT

US\$1.5-2 Million

REFERENCE

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SCOPE OF SERVICES

Conceptual Design
Design Development
Contract Documents
Bidding and Procurement