



McNamara Terminal

Detroit, Michigan

Delta Air Lines Baggage Handling System Recontrol

Delta Air Lines | 2017 – 2020

Delta Air Lines in conjunction with the Wayne County Airport Authority retained BNP Associates, Inc. for Design, Program Management and Construction Administration services related to its BHS Recontrol Project at Detroit Metro International Airport, McNamara Terminal.

- Replaced all existing HLC controls in a hot backup configuration. The new servers were geographically separated into two server rooms.
- The computer architecture for the baggage handling system at DTW included a fault tolerant Stratus EverRun configuration.
- The five virtual VMs included a SAC (Sort Allocation Controller), a RPT server (Report Server), a BSD server (BSDS), GH (Graphics Server), and an Admin VM.
- Replaced all existing PLCs with new Allen Bradley PLCs
- Replaced all MCP I/O in 128 Motor Control panels
- Replaced 533 conveyor drive assemblies with new VFD inline drives. New VFD drives were monitored over the new Ethernet Network.
- Replaced 124 Pusher drives with new VFD inline drives. New VFD drives were monitored over the new Ethernet Network.
- Replaced all Manual Encoding Consoles
- Replaced obsolete reports and developed new reports and KPI's tailored to the clients needs in a new HMI system
- Replaced all existing Uninterruptible Power Sources (UPS) with new.
- Installed 7 new workstations both in a new control room and in remote locations.
- Replaced 40 Bag Status Displays with new servers and network in the TSA CBRA and recontrolled the existing system to bring it up to the latest TSA PGDS standards.
- Enhanced baggage "divert around faults" and BHS "load balancing" software technologies.
- Recontrolled all Domestic inbound Claim Devices (total 11 devices)
- Recontrolled all International Recheck Devices (total 9 Devices)
- Constructed new Computer Server and PLC rooms
- Constructed new break rooms.
- Constructed new Baggage Handling System Control Room



ASSOCIATES, INC.

BNP PROJECT TEAM

Terry Cochran, Project Director
William Roland, Project Manager

TOTAL CONSTRUCTION AMOUNT

US \$34 Million

SCOPE OF SERVICES

Conceptual Design
Design Development
Contract Documents
Bidding and Procurement
Program Management
Construction Monitoring