

# JFK INTERNATIONAL AIRPORT, JAMAICA, NY DELTA AIRLINES - TERMINAL 4 REDEVELOPMENT PROJECT



**OWNER:**  
DELTA AIRLINES

**BNP PROJECT TEAM:**  
STEVE LAPORTA

**LOCATION:**  
JFK INTERNATIONAL AIRPORT  
JAMAICA, NY

**CONTRACT PERIOD**  
2010 - 2013

**ENTIRE PROJECT AMOUNT**  
US \$1.4 BILLION

**BHS CONSTRUCTION AMOUNT**  
US \$60 MILLION

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

BNP was retained by Delta Air Lines to provide consultancy service to JFK International Airport Terminal 4 Redevelopment Project. This project enables Delta Air Lines to move its operation for the aging Terminal 3 building to Terminal 4. The project involved the reconfiguration the existing Baggage Handling Systems with standalone lobby screening to a fully automated inline screening and sortation system.

The overall project more than doubled the gating capacity at Terminal Four and greatly increased the utilization of the headhouse.

The system consists of ten (10) ticket counter lines, one (1) curbside line, three (3) transfer lines, two (2) international recheck lines, nine (9) inbound lines, four (4) oddsize lines, five (5) manual encode lines, five (5) sort mainlines, ten (10) automatic tag reader arrays, ten (10) inline CTX 9800 DSi EDS screening machines and a total of seventeen (17) make up carousels located in two concourses. The system was tested and certified by the TSA to screen 6,400 bags per hour.

The existing upper and lower level controls were replaced with new as part of the project. Both upper and lower controls were designed and built with redundancy in mind. Upper level servers are located in different buildings within Terminal 4 to provide geographical redundancy. Since JFK Terminal 4 is a multi-tenant terminal, the upper level system communicates with more than one airline reservation system and also manages sortation assignments for multiple airlines. Upper level workstations are located in multiple locations throughout the Terminal. This was easily accomplished as the system utilizes IP based technology enabling access to the system anywhere network connectivity is available. This also enables the installation of remote maintenance diagnostic information screens throughout the BHS with ease and low cost.

The project was completed both on budget and schedule in 2013 enabling Delta Air Lines to relocate its operation on-schedule.

