



Indianapolis Airport-The Midfield Project

Opened in 1957, the Indianapolis International Airport terminal served the community well through many renovations, expansions and years. However, studies showed that its capacity to expand and adapt to the needs of 21st century air travel would be limited. Planning for a new Indianapolis Airport began in 1975 when the Indianapolis Airport Authority (IAA) adopted a master plan for airport development. The plan called for layout of two parallel runways with a non-intersecting crosswind runway while leaving room for a new "midfield terminal" complex between those runways and new highway access from Interstate 70.

For over the past 30 years those plans were developed, reviewed, modified and updated. The "Midfield Project," as it came to be known, resulted in what you see today—a modern new gateway to central Indiana built with no local or state tax dollars. This new facility will serve about 8.5 million passengers arriving at and departing from Indianapolis on one of 12 airlines.

In 2005, the Indianapolis Airport Authority (IAA) began building a new mid-field terminal complex, which included a new passenger terminal containing 1.2 million square-feet and features two concourses with 40 passenger gates, retail space for restaurants and shopping, state-of-the-art security, passenger conveyance, and baggage handling facilities. One of first U.S. airports constructed and opened since 9/11, the entire airport complex is nearly one mile wide and over two miles in length. It includes a new FAA air traffic control tower and terminal radar approach control facility, a new fire station, new roadway system, new surface parking lots and garage, and new Ground Transportation Center.

In late 2006 the IAA selected IBM, with RCR Technology Corporation (RCR) as their partner, as the project's systems integrator (SI). As a member of the SI Management Team, RCR Technology provided thought leadership and resources in the project management, procurement, design, installation and configuration, integration, and commissioning of all information technology deployed at the Indianapolis International Airport for The Midfield Project.

Security (Access Control, CCTV, Exit Anti-Backflow, Gates)

- Public Safety (fire house alerting, fire alarm, site wide Monitoring, public address systems, lightning warning, E911)

- Airport Operations (Wireless and Wired Networks, Servers, Work Stations, Distributed Antenna, Clocks, EVIDS, AODB, Parking Control System, Audio Visual, Telephones, UPS)

- Vendor Operations (FIDS, GIDS, BIDS, Telecommunications, Extended D-Marc)

In addition to providing the stated system services categories, RCR Technology was primarily responsible for providing project management, system network, and commissioning services for IAA's Airport Operation Center/Emergency Operation Center (AOC/EOC).



A Case Study of Capabilities, Flexibility and Successful Delivery

This facility was built to function as the nexus for the Midfield Terminal Campus to maintain redundant network connectivity and systems monitoring. Some of the scope of this facility included overseeing of the following types of workstations for the Communication Specialist I and II consoles and the Supervisor Console:

- Building Management Systems (BMS)
- Power monitoring Systems
- Conveyance System (Lift Net)
- General Applications
- MECA (Metropolitan Emergency Communication Agency)
- CAD and E911
- Radio Communication for both Operation and Emergency Personnel
- The New and Old Terminal Fire Alarm Systems
- Access Control System and CCTV/DVMS systems
- Baggage Handling System (BHS)
- Flight Information Display System (FIDS)
- Site-wide Monitoring System
- Vehicle Crash Gates
- Tornado Alerting System
- Lightning Warning System

In July 2009 RCR Technology was contracted to provide Level I and Level II warranty help desk services to the Indianapolis Airport Authority. The help desk was operational 24 hours per day, 7 days per week, for 365 days. During the course of this engagement, our Service Level Agreements were at or above expectations.

Additionally, RCR Technology was contracted to provide systems that were installed in the AOC/EOC including telecommunication system, audio/visual systems, Public Address and Firehouse Alerting System, Distributed Antenna System, Network Cores for the three physically separate Networks on the Airport Campus, Airport and Public Wireless Networks, and Master Clock System. Worked with field staff and subcontractors to provide direction and leadership for the Airport Operations Center project during construction and post construction operations.

A summary of the RCR Technology aviation capabilities and expertise utilized during The Midfield Project:

- Project Management
- Owner Technical Representation
- Vendor Management and Coordination
- Technical Services - Consulting, Design, Installation, Configuration
- RFP/RFQ Development and Evaluation
- Systems Integration
- Commissioning
- Documentation
- Systems Support and Maintenance

Areas of Expertise

- Security - Access Control, CCTV, Exit Anti-Backflow, Gates
- Public Safety - Fire House Alerting, Fire Alarm, Site wide Monitoring, Public Address Systems, Lightning Warning, E911
- Airport Operations - Wireless & Wired Networks, Servers, Workstations, Distributed Antenna, Clocks, EVIDS, AODB, Parking Control System, Audio Visual, Telecom, UPS
- Vendor Operations - FIDS, GIDS, BIDS, Telecommunications, Extended D-Marc