

IT Considerations

AIRPORT CAPITAL PROJECT DELIVERY

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BURNS  **MCDONNELL**

Prioritize IT Considerations

Heightened Focus on Technology during the design phase but potentially lessens during contract execution and solution delivery

- ▶ IT design, tech innovation goals, and defined requirements should remain in cadence with the construction phases and all project updates
- ▶ Keep the heightened focus on IT considerations and accelerate the closer your project arrives to Commissioning Phase

Not Only Consider Technology...



Lock in IT Owners and Influencers

- *Operations (All Levels)
 - *Facilities, O&M
 - *Safety & Security
 - *Airline Partners
- *Guest Experience Executives
 - *Innovation Executives
- *Marketing, Public Affairs
 - *Retail & Concessions

Considering Technology...



Overlooking the importance of IT integration management to your delivery method will become a key contributor to delays and budget overruns.

Clearly Define

Roles & Responsibilities

Systems Integration Manager

Special Systems Integration

Public Safety & Security

Considerations

Cybersecurity Factors

Roadmaps and Strategies

Tried & True Approaches (Peer Review)

Level of Appetite for Innovation

Future-Proofed Design

Operational Readiness

Considering Technology...

Repetitive Design Review and Progression Approval.



Project schedule capable to pivot and shift to support focus on potential higher priority issues **when** they arise.

CASE STUDY | A View Into

San Diego County
Regional Airport
Authority

FIS Project



Los Angeles
World Airports

Midfield Satellite
Concourse Project



SAN Federal Inspection Station



SAN FIS Project Details

- ▶ Design-Build
- ▶ Turner/PCL/Gensler design-build team
- ▶ Federal Inspection Station Project
- ▶ Completed in 2019



Project Deliverables

- ▶ Engineering Design for Airside Civil
- ▶ Ramp Services
- ▶ Aircraft Parking
- ▶ Gate Design/Layout
- ▶ IT/Special Systems Design

SAN Federal Inspection Station



Considerations

- ▶ Extremely fast paced construction schedules
- ▶ Project Budgeting
- ▶ 100% design documentation delivery for phase 1 in short turn around
- ▶ Identifying the Impact of enabling projects already underway
- ▶ Required volume of system design, integration and implementation schedule reviews
- ▶ Staffing and quick mobilization: internal and external
- ▶ Technology requirements refinement

SAN Federal Inspection Station



Successes

- ▶ Proper Identification of the Responsibility Assignment Matrix
- ▶ Additional Design Review sessions
- ▶ Schedule Adherence
- ▶ Phased Delivery (Minimal, if any, impact to Operations, Security and Guest Experience)
- ▶ Proper Planning Throughout = Efficient Commissioning and On Time Acceptance

LAWA Midfield Satellite Concourse



LAWA MSC Project Details

- ▶ Design-Build
- ▶ Turner/PCL/Corgan-Gensler-Gkkworks
Architect of Record - Corgan
- ▶ Ongoing Terminal Expansion Project



Project Deliverables

- ▶ Special System Design
- ▶ System Integration Management (Airport IT Systems, Fire Alarm System, Conveyance Monitoring, BAS/FMCS, Lighting Systems)
- ▶ Commissioning and System Readiness

LAWA Midfield Satellite Concourse



Considerations

- ▶ Multi point system integration (FMCS/BAS and several other low-voltage special systems)
- ▶ Required communication cadence between LAWA IMTG, LAWA Systems Specialist, Trade/Subs, Vendors/Suppliers
- ▶ Project Schedule & Equipment Procurement schedule
- ▶ Technology Requirements Refinement
- ▶ System Readiness, Commissioning and Acceptance

LAWA Midfield Satellite Concourse



Ongoing Successes

- ▶ High cadence of design review meetings
- ▶ Proper Identification of the Responsibility Assignment Matrix
- ▶ Schedule adherence
- ▶ Integration Manager for Special Systems
- ▶ Direct reports to Contract Leads
- ▶ Quality Control throughout system installation tasks

Constant Participation

- ▶ Obvious to keep the IT design management involved with the entire movement of your Capital Improvement Project.

Delivering while Forecasting

- ▶ Focusing on current scope while addressing the incoming IT requirements for the next CIP integration – Future Proof IT!

Continue Down Your Organization's IT Roadmap
Prepare for the Trip

CONCLUSION



CREATE AMAZING.