



LAX Midfield Ramp Tower Communications Suite



OVERVIEW

Los Angeles International Airport (LAX) is the nation's third busiest airport in annual passengers and annual aircraft operations. In 2020, the airport launched one of the largest public works programs in Californian history. The \$14 billion construction project includes upgrades to runways, terminals, and operational systems, as well as major infrastructure improvements to the city's metro systems.

Leidos, a trusted technology provider and systems integrator serving the Federal Aviation Administration, subcontracted ACG Systems to act as the radio subject matter expert (SME) to assist building out the communications suite for the new LAX Midfield Ramp Tower.

APPROACH

As part of construction of the new facility, the LAX Mid-Field Ramp Tower required a communications platform to include telephone integration, notification for call, auto answer and visual alerts for emergency calls.

PROJECT HIGHLIGHTS

- FAA-approved Ground-to-Air radio communications ACG created screen GUI to match the LAX specialized requirements.
- Console-integrated FAA ring-down emergency telephone lines.
- Instant playback feature for both inbound and outbound audio from recent radio and phone calls.
- Incoming emergency phone call triggered emergency flashing lights with audible alert and phone audio out to PA system.
- Avtec updated their software to support the emergency phone lines. Pre-existing partnership allowed for swift modifications.

SERVICES

- Onsite support for SAT/FAT.
- Custom Interface Design.
- Radio Coverage testing.
- Onsite and Offsite product and systems training.

PRODUCTS

- General Dynamics CM-300 Radios
- Avtec Scout Dispatch Consoles configured for ATC application.
- TACO ATC Antennas
- Viking Electronics auto-answer telephone interface integrated with emergency lights and PA system.





RESULTS

The (Midfield Ramp Control Tower) RCT Communications system includes 10 observation level operator console positions networked to servers, a Cisco based telephone system, emergency analog telephone lines, and 4 primary VHF radios through an access layer switch in the Support Level IT room.

ACG Systems provided onsite engineering expertise for the RCT communications systems design to include: RCT-to-aircraft communications, RCT-to-airline and ramp/gate support personnel, and RCT interface to inbound and outbound emergency telephone systems.

The ACG team designed, furnished, and installed all required infrastructure to support Scout system applications including radio, phone and alerting systems.



CONTINUED PARTNERSHIP

- Provided ongoing phone support to LAX.
- Primary contact and Subject Matter Expert for Avtec, GDMS, and Taco Products.
- ACG's longstanding relationship with Leidos was the primary driver behind a seamless, efficient and successful project at LAX RCT.

PRODUCT LINKS

- Avtec Scout Dispatch System
- GD Mission Systems FAA Approved CM 300 ATC Radios
- Taco Antennas
- Viking Electronics

"The ACG Systems Engineering team worked closely with Leidos developing and providing the best communication solutions for LAWA's operational needs."

Joe Williamson
Director Systems Engineering, ACG Systems

