



MEMORANDUM

TO: Mayor and Council

FROM: Jim Smith, Executive Director
Aviation Department 

DATE: May 26, 2017

SUBJECT: ABIA Emergency IT Building Roof Replacement on June 8th City Council Agenda

The June 8th City Council agenda contains an action item to ratify the emergency replacement of the Austin Bergstrom International Airport (ABIA) Information Technology (IT) building roof and lightning protection system. This memo will provide an overview of the building along with the circumstances that led to the requirement for this procurement.

Overview

ABIA has designated the critical IT building as the demarcation point for voice and data communication services. These communication services utilize a shared infrastructure throughout the campus that is used by the Department of Aviation (DOA) and all airport tenants (airlines, rental car companies, concessionaires, cargo companies, etc.) for support of critical operational systems. Disruption of communication services would cause a negative impact on airline and tenant operations; the travelling public; and the City of Austin. Additionally, service disruption could cause a domino effect throughout the airline industry.

On President's Day, February 20, 2017, ABIA experienced a severe weather, storm including rain and high wind gusts of 75+ mpg. This storm resulted in major structural damage to the roof of the IT building, including the lightning protection system. The roof damage led to water leaks into the building that threatened critical airport operational infrastructure. Without the immediate repair of the IT building roof and lightning protection system, the threat of service disruption existed, which could have caused delays across the entire national aviation network.

Project Scope

On the day of the storm, Hensel Phelps was on-site working on existing airport construction projects and was able to quickly respond and install a temporary solution to the damaged IT building roof, which prevented damage and disruption to critical airport operational systems. Due to the time sensitivity of the roof and lightning system replacement, Hensel Phelps was able to

assess the damage and coordinate with the airport's Planning & Engineering (P&E) staff to develop the plan for a long-term solution.

P&E worked with Hensel Phelps to obtain two (2) competitive bids for the roof and lightning protection replacement project to ensure a fair and reasonable price. In addition, P&E staff evaluated the bid proposals to ensure the roof installed meets both City and Airport construction specifications.

Hensel Phelps is a current City contractor; meets the necessary City and Airport bonding and insurance requirements for conducting business at the airport; and was able to meet the required expedited timeline for the emergency replacement of the roof and lightning protection system.

Project Financing

The project cost estimate is \$253,095.00 and is funded through the DOA's O&M budget. This estimate includes the cost of \$35,159.00 for the temporary solution installed immediately after the damage occurred.

Project Schedule

Upon receipt of the final scope and cost proposal, the Notice to Proceed was given to Hensel Phelps on March 9, 2017, with an expected project timeline completion of 3 weeks upon staging of materials and project start.

Closing

The authorization of this emergency project to perform the necessary repairs to this critical City property ensured the safety of the airport's communications infrastructure and mitigated the risk of service disruption to airport operational systems.

Cc: Elaine Hart, Acting City Manager
Bert Lumbreras, Assistant City Manager