

Case Study



“The Comfort Systems USA team’s performance on Project 622 (Emergency Piping Replacement) exceeded my expectations. In a safe and quality manner, they executed a logistically challenging project on time and under my budget. I would be happy to work with them again in the future.”

Mario Diaz, Director,
Houston Airport System

Project Summary

Name

Bush Intercontinental Airport
Piping Project

Market

Government/Municipal

Location

Houston, Texas

Bush Intercontinental Airport Piping Project

The Challenge

In February 2011, the Houston Airport System (HAS) discovered that chilled water lines were leaking 31 feet below ground at a rate of 10,000 gallons of treated water per day. The leak was under the taxi-way bridge that serves the entire George Bush Intercontinental Airport. The nature and location of the leak created major concerns for HAS. The HAS needed a strong mechanical contractor to expedite an emergency solution that would minimize any negative impact to airport operations. Comfort Systems USA (CSUSA) was ready to help.

George Bush Intercontinental Airport in Houston, Texas serves the Houston–Sugarland–Baytown metropolitan area, the sixth-largest metropolitan area in America.



The Solution

The CSUSA Team:

- Rerouted chilled water lines and installed nearly one mile of 36” diameter piping above ground, including the installation of four bridges over heavily traveled roads and one underground road transit.
- Completed work in 7½ months with minimal impact on airport operations.
- Delivered the project under budget and ahead of schedule.
- Used 200,000+ man hours without a lost time safety incident.

Case Study



George Bush Intercontinental Airport served 40,479,569 passengers in 2010 making the airport the seventh busiest in North America. In 2006, the airport was named the fastest growing top ten airport in the United States by the United States Department of Transportation.

Bush Intercontinental Airport Piping Project

A Closer Look

CSUSA was awarded this project in April 2011. This project required collaborative effort and involved multiple CSUSA Companies working with local Minority and Women Business Enterprises' (MWBE) business partners. Prior to construction, the City of Houston requested a goal of 33% MWBE participation. CSUSA completed the project with an MWBE participation of 51%.

The \$17,000,000.00 project that CSUSA completed at the George Bush Intercontinental Airport included: new above ground chilled piping system consisting of one+ mile of 36" diameter piping; structural racks; foundations (some in concentrated utility conflicted areas); four bridges spanning over highly traveled roads; an underground road transit; storm water prevention planning; landscaping design and implementation; constructability reviews of design; construction and management.

All work was done without impacting airport operations while maintaining airport security standards.

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