

# Aguadilla Hangar

Aguadilla, Puerto Rico

2014-2016

## Project Description

A Design-Build project, this new Aircraft Hangar for the CBPE consists of a 20,120 ft<sup>2</sup> Type II aircraft hangar used to house fueled fixed-wing and rotary aircraft. The hangar is joined by a two-story 14,000ft<sup>2</sup> office building to be used to house the support staff for the Customs and Border Patrol Hangar. The facility includes a health and wellness center, document storage, weapons storage, flight planning, conference and training rooms, and other necessary support areas. The fire protection systems include wet pipe sprinkler protection for all areas including structural column protection for the hangar as well as several Ansul Jet-X-15A high-expansion foam generators for local application protection of the hangar floor. The high-expansion foam system is supplied by two 75,000-gallon concrete water storage cisterns and pressurized by two 2,500gpm at 130psi diesel engine driven fire pumps. The foam system is an internal bladder, balanced pressure proportioning system with a 300-gallon foam concentrate supply tank. The detection and control system is an addressable releasing system with cross-zoned infrared detectors to limit the possibility of false system activation.



**Project Delivery Method:** Design-Bid-Build

**Project Cost:** \$30,000,000

**Key Team Members:** Jeff Brakke, (303) 518-6861 – GSA Project Manager

## FPCG Team Member Responsibilities

Our staff was responsible for performing the duties of the Fire Commissioning Agent (FCxA) starting in the design phase with peer reviews all the way through Functional Performance Testing and inspection of the high expansion foam fire suppression system. Systems included in FPCG's scope included two cast-in-place concrete fire protection water tanks, two diesel motor driven fire pumps, the low-level high-expansion foam generator system, and the fire detection and controls system associated with the foam system. With seamless coordination, our staff collected water samples from the facility water supply, the AFFF concentrate tank shell water, and proportioned samples of foam-water solution to determine if all system components were operating properly.



Mr. Gilead R. Ziemba, P.E. was the Fire Commissioning Agent and Sr. Fire Protection Engineer. Mr. Temple R. Kennedy, CBCO, CFCO was the Sr. Consultant for the project. Mr. Jeff Crisler was Commissioning Technicians and Systems Design Peer Review.