

U.S. SOUTHERN COMMAND HEADQUARTERS U.S. ARMY CORPS OF ENGINEERS



As a new Design Build project, U.S. Southern Command Headquarters facility was allocated a total area of approximately 672,000 square feet (SF), which is to accommodate 2,883 staff. This facility will consist of three (3) zones: the Headquarters (HQ) zone, the Coalition & Interagency Operations Center (CIOC) zone, and the Services zone. These zones will contain work spaces, command and control/operations centers, conference/meeting areas, C4I/IT equipment rooms; in addition, it will contain warehousing, a medical clinic, a family support center, and other common personnel-support facilities. Due to the nature of the organization's missions, the new HQ facility must have designated work areas to conduct Unclassified, SECRET, and Top Secret/Sensitive Compartmented Information (TS/SCI). Areas where classified information will be processed will require special infrastructure construction.

Located near the coast in Miami, a key challenge to this project was the requirement that the facility be fully functional during a Category 5 Hurricane. The 185 mph design wind velocity far exceeded the code maximum of 146 mph. Incorporating the results of a detailed wind tunnel analysis the design team was able to substantially reduce the impact of the high design load by capturing the 'true' wind pressures on the structure. This design-build project, located in Miami-Doral, Florida, attained LEED Gold certification.

LOCATION:

Miami-Doral, Florida

CONSTRUCTION COST:

\$213 Million

COMPLETION:

2010

CLIENT REFERENCE:

Dennis Newell, PE
U.S. Army Engineer District
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PROJECT HIGHLIGHTS:

- Federal Project
- Design-Build
- BIM / Revit
- LEED Gold
- ATEP Design
- Wind Tunnel Study to minimize natural hazard conditions
- 2010 ASCE Project of the Year Award, Miami-Dade Branch
- 2011 DBIA National Design Build Award
- 2011 Excellence in Construction Award-Mega Projects > \$200M, Associated Builders & Contractors

