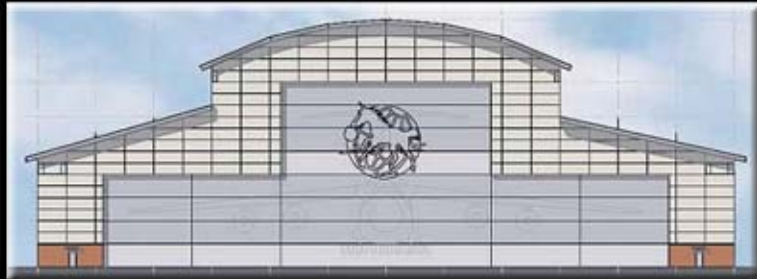


C-5 Fuel Cell Facility

167th Airlift Wing

Martinsburg, WV



Project Team:

Owner: 167th Airlift Wing, WV ANG
General Contractor: Kinsley Construction, Inc.
Architect: LSC Design
Civil Engineer: Greenway Engineering
Structural, MEP Engineer: TranSystems

Project Information:

Location: Martinsburg, WV
Function: Hangar and Maintenance Building
for C-5 Aircraft
Building Size: 78,825 SF
Project Cost: \$27 million
Construction Dates: Oct. 2008 - May 2010
Delivery Method: Design-Build



Structural System:

Drilled caisson foundations around perimeter of building
Braced frame lateral force resisting system
Structural steel framing with combination of wide flange and hollow structural steel columns and beams
K-series and Longspan joists supporting roof
Steel trusses spanning nearly 220 feet



Architecture:

Split-face CMU covers first 10' of exterior wall space above finished floor level, with accent course
Insulated metal panels cover all other exterior wall area
Insulated translucent sandwich panels allow natural light into building
MEGADOOR assembly on Southeast face- 14,600 SF
Standing seam metal

Electrical/Lighting System:

Service transformer to convert 12.47kV utility distribution to 480Y/277V utilization
200A load break junction boxes distribute power to building
Connections for 400Hz generators
277V fluorescent fixtures in support areas
277V metal halides in hangar area
277V HPS wall mounted on exterior
120V LED roof mounted as obstruction lights
277V LED emergency lighting inside

Mechanical System:

Vented infrared radiant heaters in hangar
(2) 15,000 CFM make-up air units
Inline centrifugal exhaust fans
(2) 300 GPM boilers
4,000 CFM air handling unit
VAV boxes
(3) 1400 CFM energy recovery units