

Army National Guard Readiness Center

Arlington, VA



PROJECT TEAM

Location: Arlington Hall Station, Arlington, VA

Occupancy: Primarily Offices & Assembly

Contract Value: \$100,000,000

Size: 251,000 sq ft

Levels: 8 Stories; 5 Above Grade

Construction Dates: Dec 2008-Jan 2011

Delivery Method: Design-Bid-Build

PROJECT TEAM

Owner: Army National Guard

General Contractor: Tompkins Builders, Inc.

A/E: DMJM H & N | AECOM

Getotech: CH2M Hill

ARCHITECTURE

The Army National Guard Readiness Center Addition is an 8 story Joint Headquarter Administrative building. The building is comprised of a 3 levels underground and a 5 story triangular tower. The facility will house special administrative areas within sensitive compartmented information facilities (SCIFs) as well as an auditorium, fitness center, general office space, conference rooms and a one story bridge connecting to the existing building. Physical security features have also been incorporated into the design including maximum standoff distances, internal bracing to prevent progressive collapse, blast walls, berms, and bollards. This facility is expected to achieve a LEED Silver certification rating.

STRUCTURAL SYSTEM

- ~Two-Way Concrete Slab on Metal Deck
- ~Reinforced Concrete Columns
- ~Spread Footing Foundation
- ~Shear Wall Lateral System

MEP SYSTEM

- ~Forced Air System using chilled and heated water
- ~AHUs on each floor supplied with 100% outdoor air
- ~Power via 35.4kV underground concrete ductbank
- ~Backup Generators and UPS
- ~Mainly fluorescent lighting with programmable controls

BUILDING ENVELOPE

- ~Battered & Ribbed Precast Panels
- ~Glazed Aluminum Curtain Wall System
- ~Single Ply Roofing for Tower
- ~Intensive Green Roofing System at Plaza



Amanda C. Farace | Structural Option

<http://www.engr.psu.edu/ae/thesis/portfolios/2010/acf5033>