



The Corps of Engineers Center of Expertise for Protective Design provides engineering services related to force protection and explosives safety.

Antiterrorism/Force Protection Facility Site Surveys and Investigations

Protective systems for:
 Military and civilian assets key to military operations
 Troops and other assets during conflict situations
 Civilian special events physical security recommendations
 Vulnerability assessments
 Structural damage assessments after attack or natural disaster



Protective Design Services

Review, consult, prepare facility drawings, specs
 Design to resist terrorist tactics including:
 Stationary and moving vehicle bomb
 Forced entry resistant construction
 Ballistics
 Standoff weapons
 Hardened structures design and upgrades:
 Conventional weapons resistant design
 Nuclear weapons resistant design
 Chemical and biological protection
 Explosives safety facility design
 Camouflage, concealment, and deception

Training for Facility Planners, Designers and Security Specialists

A five-day course on the principles of security engineering is offered semi-annually at Fort Belvoir, Virginia. This training for planners, designers, and security people is based on the TM 5-853/AFMAN 32-1071 series of technical manuals. The class addresses the joint development by engineering and security

personnel of design criteria for projects requiring protection against criminal and terrorist threats. The class also presents design principles for planning and designing facilities to protect assets against those threats. It is also available for mobile training and can be developed and presented on specialized topics.

Technical Assistance and Regulatory Compliance

Hardened structures programs related to weapons resistant design and explosives safety
 Assist with project planning and criteria development (DD Form 1391) for antiterrorism/force protection
 Participation in security product testing and evaluation and development of test standards

Criteria interpretation and application:

TM 5-853-1, -2, -3, and -4, Security Engineering series
 TM 5-855-1/AFPAM 32-1147(1)/NAVFAC P-1080/
 DSWA DAHS CWEMAN-97
 TM 5-1300/NAVFAC P-397/AFR 88-22

Army physical security and force protection regulations
 Computer program development and user assistance:
 BIRM (finite element modeling of passive vehicle barriers)
 FACEDAP (building assessment for blast survivability)
 SEDA (automates protective measures development)
 SEPA (automates threat analysis procedures)
 Technology transfer

