

THE PROTECTOR

A QUARTERLY NEWSLETTER

A MESSAGE FROM THE CHIEF:

THIS QUARTERLY NEWSLETTER IS PART OF THE PROTECTIVE DESIGN CENTER'S CONTINUING EFFORTS TO PROVIDE THE FEDERAL GOVERNMENT SECURITY COMMUNITY WITH INFORMATION RELATED TO PROTECTIVE DESIGN, ANTITERRORISM, PHYSICAL SECURITY, HARDENED STRUCTURES, AND ACCESS CONTROL.



UFC vs. ISC BUILDING STANDARDS

GENERAL INFORMATION

- Prior to December 7, 2012, DoD used Unified Facility Criteria (UFC) Minimum Antiterrorism Standards for Buildings for leased space. GSA used and continues to use Interagency Security Committee (ISC) Physical Security Criteria for Federal Facilities.
- On December 7, 2012, the Deputy Secretary of Defense directed that DoD transition from the UFC standards to the ISC standards for leased space. This may require DoD agencies to re-baseline many of their facilities using the ISC standards. UFC still applies for DoD owned/managed buildings. The memorandum directing the transition can be found at <https://pdc.usace.army.mil/newsletter/>.
- UFC 04-010-01 and UFC 04-010-02, dated February 2012, can be found at <https://pdc.usace.army.mil/library>. UFC 04-010-01 can also be found at <http://dod.wbdg.org>. The UFC is being revised to incorporate the ISC standards for use in DoD leased space.
- The ISC Physical Security Criteria for Federal Facilities, last revised April 2012, can be requested at <http://www.dhs.gov/isc>.

COMPARE AND CONTRAST OVERVIEW

- There are 86 ISC security criteria compared to 21 UFC standards. The UFC standards establish minimum requirements, whereas, the ISC standards can be adjusted through risk acceptance.
- The ISC standards address much more than antiterrorism considerations, including conventional physical security, whereas, the UFC standards focus exclusively on antiterrorism.
- The ISC standards rely on Facility Security Committee decisions.

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PROTECTIVE DESIGN CENTER SERVING THE NATION AND THE WORLD

AVAILABLE SUPPORT SERVICES

- Design of Hardened Structures
- [Analysis of Hardened Structures](#)
- [Risk and Vulnerability Assessments](#)
- [Infrastructure Assessments](#)
- Protective Design
- Blast Resistant Window Design
- Access Control Point (ACP) Design
- Chemical/Biological Protection
- Blower Door (Building Leakage) Testing
- Criteria Development
- AT Plan Development
- UFC Compliance Reviews/Assessments
- [Security Engineering](#) and [ACP Training](#)
- [Blast Design Training](#)

UFC vs. ISC BUILDING STANDARDS (CONTINUED)

MORE UFC vs. ISC COMPARISONS

UFC Standards:

- ◆ Requires buildings of three stories or more to be designed for progressive collapse resistance.
- ◆ Blast resistance is always considered, based on occupancy, standoff, and building construction.
- ◆ A minimum threat is predetermined for DoD-occupied space when the thresholds for an “inhabited” building are met.
- ◆ Currently, UFC standards still apply for DoD agency owned facilities and installations.

ISC Standards:

- ◆ Specifically addresses the need for progressive collapse resistance, but is slightly less restrictive than the UFC.
- ◆ Blast resistance depends on the Facility Security Level and whether or not explosives are deemed an applicable threat.
- ◆ Threat is solely and completely established by the Facility Security Committee; there is no minimum threat to consider.
- ◆ ISC standards apply for leased and GSA-managed space; however, a grandfather clause covers UFC work in progress.

Additional discussion regarding application of the ISC standards can be found at: <https://pdc.usace.army.mil/newsletter/>.

For questions or assistance with interpreting the ISC standards and their application, contact:

Curt Betts, 402-995-2376, curt.p.betts@usace.army.mil or Kelvin Chan, 402-995-2378, kelvin.t.chan@usace.army.mil.

WINDOW GLAZING ASSESSMENT TOOLS

Ever wondered what glazing materials are in the windows in your facility? This information is critical to determining if the windows can withstand the blast pressures associated with the detonation of a nearby explosive device. Construction drawings and markings on the glazing itself are not always adequate to determine what has actually been installed. There are tools available to assist you. [Read more...](#)



INFRASTRUCTURE VULNERABILITY ASSESSMENTS

The Protective Design Center (PDC) has been performing risk and vulnerability assessments on various infrastructure assets since its inception in 1985. Assets evaluated include: dams, navigation locks, ports, bridges, tunnels, buildings, water systems, communication systems, and electrical distribution facilities, to name a few. Contact Bryan Cisar at 402-995-2362 for information or support. [Read more...](#)



ACCESS CONTROL POINTS/ENTRY CONTROL FACILITIES (ACP/ECF)

ACP/ECF DESIGN AND ANALYSIS

Access Control Points/Entry Control Facilities (ACPs/ECFs) represent more than a canopy; they act as the first and perhaps most critical layer of protection for military installations. The Protective Design Center (PDC) has been developing criteria and assisting in the design of ACPs/ECFs for the Department of Defense (DoD) for nearly a decade. These efforts include the development of [The Army Standard for Access Control Points](#), dated April 13, 2012. The PDC has a group of engineers dedicated to responding to requests for support related to ACP/ECF design and criteria. They can also assist with and verify the overall layout, organization, infrastructure, and facilities to make certain they meet Army and DoD requirements, including threat delay calculations.

ACTIVE VEHICLE BARRIER LISTS

The Protective Design Center maintains the U.S. Department of Defense (DoD) [Anti-Ram Vehicle Barrier Certification List](#). Vehicle barriers that are included in this list are marketed by private companies and have been tested in accordance with Department of State and/or ASTM standards. When selecting a barrier, it is very important to consider environment, high and low speed impacts, method of deployment, controls, O&M, life cycle costs, etc. Each vehicle barrier has distinct characteristics that will impact a decision on which barrier is best suited for a specific application. The PDC is prohibited from endorsing specific barriers, but PDC engineers can provide useful information and assistance regarding specific barrier types, site specific applications, site layout, plans, or installation.

AVB CONTROLS AND COMMISSIONING

It is critical that Active Vehicle Barrier (AVB) control systems operate safely and securely in accordance with the Surface Deployment Distribution Command Transportation Engineering Agency AVB safety schemes. PDC engineers can perform a commissioning of AVB control systems for AVB's installed in new or reconfigured ACPs to ensure that they function as intended, and that security and life safety are maintained under all scenarios (entrance, exit, reject, deliveries, visitors, etc.).



The Protective Design Center provides an **Access Control Point/Entry Control Facility Training Course** that is intended for an interdisciplinary group including engineering planners and designers, as well as provost marshal/security and law enforcement personnel. The class is intended for civilian and military personnel involved in security or engineering support of security. [Read more...](#)

COURSE OUTLINE

- Introduction/Overview
- ACP/ECF Criteria/Standards
- ACP/ECF Planning
- Threat Scenarios/Performance Standards
- Active Barrier Control Systems/Commissioning
- Electronic Security Systems Overview
- Lighting and Power
- Geometric Design
- Traffic Engineering Study
- Sizing ACP Features/Threat Response Time
- Signs and Pavement Markings
- Speed Management Strategies
- Limited Use and Pedestrian ACP's/ECF's
- Costs

Next Class Tentatively Scheduled for March 2013

SECURITY ENGINEERING CLASSES

UPCOMING CLASSES

Contracted:

- 6-10 May 2013 – Department of the Army*
- 8-12 July 2013 – Department of the Army*

* Army gets priority placement; non-Army pays tuition if seats are still available

Open Enrollment:

- 28 January - 1 February 2013 – Open class at Fort Belvoir
- 12-16 August 2013 – Open class at Fort Belvoir

To schedule a class, contact the Training Coordinator:

Ann Mittelsdorf, 402-995-2930, ann.m.mittelsdorf@usace.army.mil

To register for a class, contact the Registrar:

Katherine Barnett, 402-995-2393, katherine.d.barnett@usace.army.mil



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**US Army Corps
of Engineers®**

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Blast Resistant Window/Door Design and Analysis:

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Mr. Thomas Schuberth, Project Manager 402-995-2374

Infrastructure Assessments:

Mr. Bryan Cisar, Infrastructure Program Mgr. 402-995-2362

Access Control Point Design, Review, & Commissioning:

Mr. Brian Erickson 402-995-2394

Chemical/Biological Protection Design:

Mr. Ken Christenson, Project Manager 402-995-2361

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Blower Door (Building Leakage) Testing:

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