

The Office of Infrastructure Protection

National Protection and Programs Directorate
Department of Homeland Security

PSCD 101 Overview Brief

Water ISAC

April 15, 2014



Homeland
Security

Vision and Mission

- Vision - A safe, secure, and resilient critical infrastructure based on, and sustained through, strong public and private partnerships
- Mission - Lead the National effort to mitigate terrorism risk to, strengthen the protection of, and enhance the all-hazard resilience of the Nation's critical infrastructure

The Role of Homeland Security

- Unify a National effort to secure America
- Prevent and deter terrorist attacks
- Protect against and respond to threats and hazards to the Nation
- Respond to and recover from acts of terrorism, natural disaster, or other emergencies
- Coordinate the protection of our Nation's critical infrastructure across all sectors

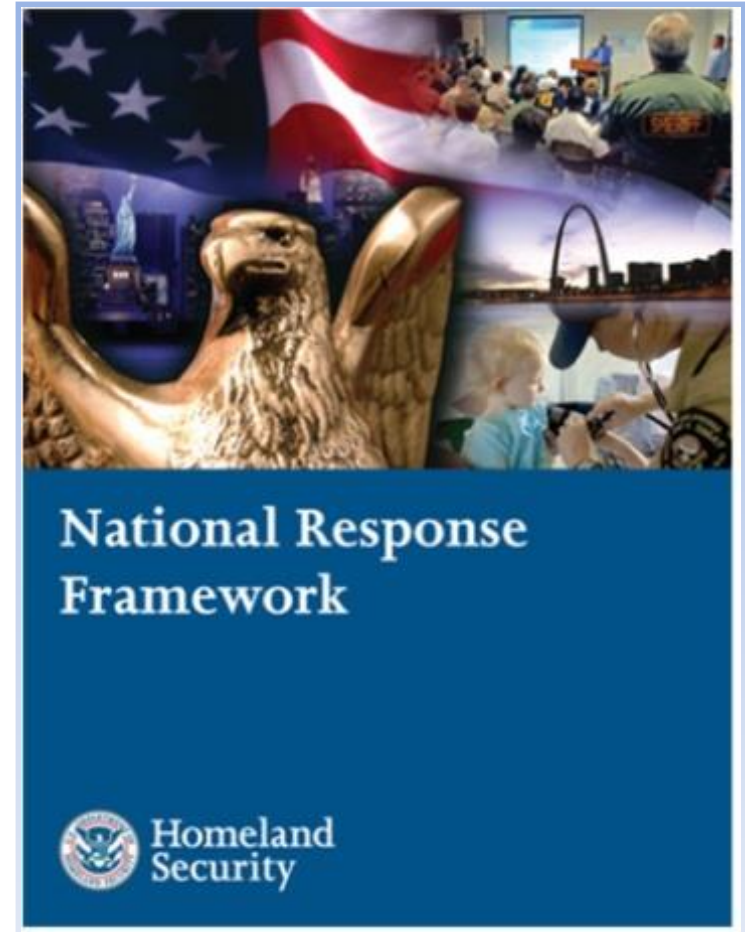
Threats May Come from All Hazards



U.S. DEPARTMENT OF
**Homeland
Security**

National Response Framework

- Guides how the Nation conducts all-hazards response
- Documents the key response principles, roles, and structures that organize national response
- Allows first responders, decisionmakers, and supporting entities to provide a unified national response



Presidential Policy Directive-21

- Announced in February 2013, *Presidential Policy Directive-21: Critical Infrastructure Security and Resilience* replaces Homeland Security Presidential Directive-7 and directs the Executive Branch to:
 - Develop a situational awareness capability that addresses both physical and cyber aspects of how infrastructure is functioning in near-real time
 - Understand the cascading consequences of infrastructure failures
 - Evaluate and mature the public-private partnership
 - Update the National Infrastructure Protection Plan
 - Develop comprehensive research and development plan

Critical Infrastructure Defined

- Critical Infrastructure
 - “Systems and assets, whether physical or virtual, so vital that the incapacity or destruction of such may have a debilitating impact on the security, economy, public health or safety, environment, or any combination of these matters, across any Federal, State, regional, territorial, or local jurisdiction.”

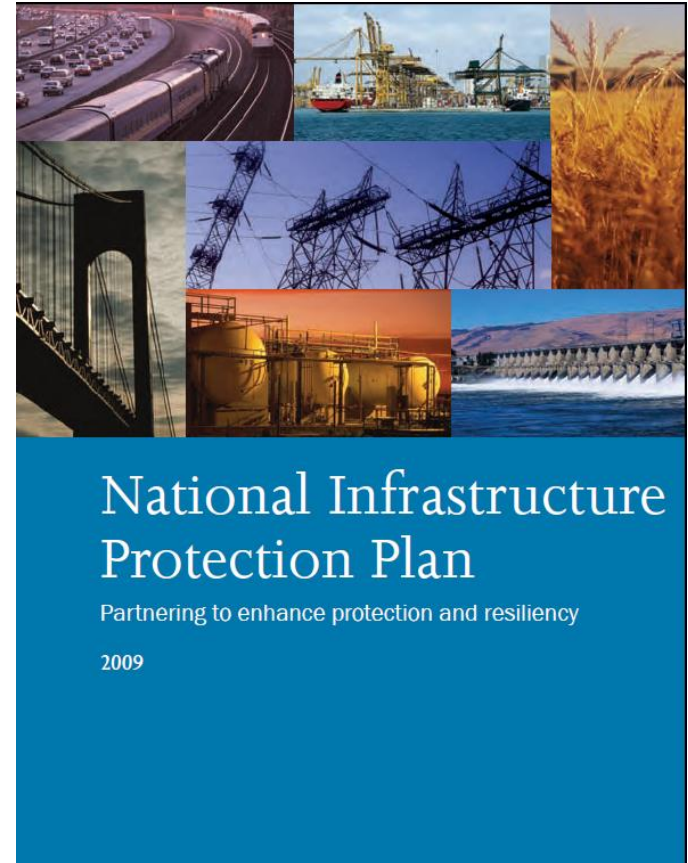
Source: National Infrastructure Protection Plan 2009



**Homeland
Security**

National Infrastructure Protection Plan

- Comprehensive plan and unifying structure for the public and private sector to enhance the protection and resilience of critical infrastructure
 - Partnership model
 - Risk management framework
 - Roles, responsibilities, and authorities
- Drives internal programs and activities, and guides those of:
 - Other Federal agencies and departments
 - State, local, tribal, and territorial governments
 - Critical infrastructure owners and operators



Critical Infrastructure Sectors

- Banking and Finance
- Chemical
- Commercial Facilities
- Communications
- Critical Manufacturing
- Dams
- Defense Industrial Base
- Emergency Services
- Energy
- Food and Agriculture
- Government Facilities
- Healthcare and Public Health
- Information Technology
- Nuclear Reactors, Materials, and Waste
- Transportation Systems
- Water



Critical Infrastructure Protection Challenges

- A majority of critical infrastructure privately-owned
- The Department of Homeland Security (DHS) has limited legal authority to regulate security practices of private industry (exceptions: National Protection and Programs Directorate Office of Infrastructure Protection (high-risk chemicals), Transportation Security Administration, United States Coast Guard)
- DHS; Sector-Specific Agencies; other Federal entities; the private sector; and State, local, tribal, and territorial governments all have roles and responsibilities in critical infrastructure protection

Protective Security Advisors

- 96 PSAs and Regional Directors, including 89 field deployed personnel, serve as critical infrastructure security specialists
- Deployed to 73 Districts in 50 states and Puerto Rico
- State, local, tribal, territorial, and private sector link to DHS infrastructure protection resources
 - Coordinate vulnerability assessments, training, and other DHS products and services
 - Provide a vital link for information sharing in steady-state and incident response
 - Assist facility owners and operators with obtaining security clearances
- During contingency events, PSAs support the response, recovery, and reconstitution efforts of the States by serving as pre-designated Infrastructure Liaisons (IL) and Deputy ILs at the Joint Field Offices

Protective Security Advisor Locations

Protective Security Advisor (PSA) Locations - June 14, 2013

Region X - Hunsinger, Dennis		
AK	Anchorage	Burgess, Thomas
ID	Boise	Payne, Eric
OR	Portland	Collins, Glen
WA	Seattle	Holcomb, David

Region VIII - Behunin, Scott		
CO	Denver	O'Keefe, Joe
MT	Helena	Middlebrook, Randy
ND	Sismarick	Romberg, Donald
SD	Pierre	Swisinger, August
UT	Salt Lake City	Law, Ralph
WY	Cheyenne	Longfitts, Kenneth

Region VII - Gardner, Gregory		
IA	Des Moines	Ritzen, Phil
KS	Topeka	Ganahan, Charles
MO	Jefferson City	Gains, Rick
NE	Omaha	Hollingshead, Greg

Region V - Gleason, Edward		
IL	Chicago	DuShene, Charles
IL	Chicago	VACANT
IL	Springfield	Pennell, Kevin
IN	Indianapolis	Gleason, William
MI	Detroit	Shenouda, Emad
MI	Grand Rapids	Moll, Michael
MN	Minneapolis	Sanders, Glenn
OH	Cincinnati	Emery, James
OH	Cleveland	Shaw, Patrick
WI	Milwaukee	Weller, Tim

Region I - Grakke, Kim		
CT	New Haven	Pesce, Douglas
MA	Boston	Richmond, Al
ME	Portland	DeLong, William
NH	Manchester	Palmer, Ronald
RI	Providence	Seltz, Alan
VT	Williston	Palazzi, Gabriel

Region II - INCOMING		
NJ	Newark	Lacey, Brian
NJ	Newark	Westfall, Frank
NY	Albany	Stenson, Al
NY	Buffalo	Kewer, Mark
NY	New York City	Tadrick, Joe
NY	New York City	Peterson, Kevin
PR	San Juan	Gonzalez, Julio

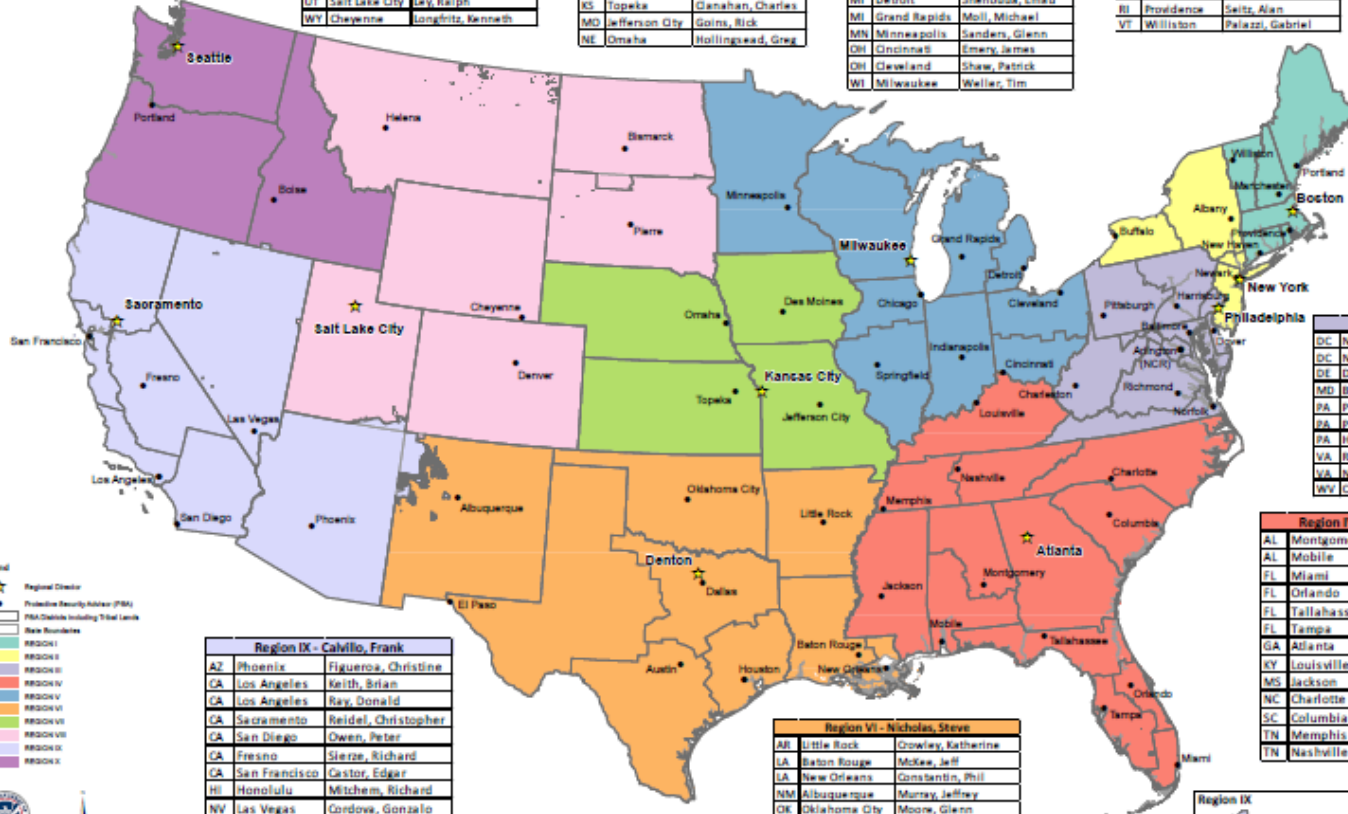
Headquarters - Bussey, Brian		
VA	Headquarters	McAree, Sean
VA	Headquarters	Cubber, Scott
VA	Headquarters	Kenns, Chris
VA	Headquarters	Giffon, Elizabeth
VA	Headquarters	Donnelly, Tim
VA	Headquarters	Egan, Bill

Region III - Guest, John		
DC	National Capital Region	Wilson, Kelly
DC	National Capital Region	Wombacher, Matthew
DE	Dover	Gleason, Ken
MD	Baltimore	Hanna, Ray
PA	Philadelphia	Ryan, Bill
PA	Pittsburgh	Winters, Bob
PA	Harrisburg	White, Stephen
VA	Richmond	Mooney, Robert
VA	Norfolk	Millich, Mark
WV	Charleston	Ulton, Kenneth

Region IV - Robinson, Donald		
AL	Montgomery	Waters, Mike
AL	Mobile	Toth, Kirk
FL	Miami	Warren, Gary
FL	Orlando	Smith, Marty
FL	Tallahassee	Sasser, Billy
FL	Tampa	Gagnon, Orla
GA	Atlanta	Hardy, James
KY	Louisville	Howard, Gregory
MS	Jackson	Ferro, James
NC	Charlotte	Aspey, Darryl
SC	Columbia	Jones, Keith
TN	Memphis	Innis, Greg
TN	Nashville	Coffey, Mark

Region IX - Calvillo, Frank		
AZ	Phoenix	Figuerroa, Christine
CA	Los Angeles	Keith, Brian
CA	Los Angeles	Ray, Donald
CA	Sacramento	Reidel, Christopher
CA	San Diego	Owen, Peter
CA	Fresno	Slezak, Richard
CA	San Francisco	Gastor, Edgar
HI	Honolulu	Mitchem, Richard
NV	Las Vegas	Gonzalez, Gonzalo

Region VI - Nicholas, Steve		
AR	Little Rock	Crowley, Katherine
LA	Baton Rouge	McKee, Jeff
LA	New Orleans	Constantin, Phil
NM	Albuquerque	Murray, Jeffrey
OK	Oklahoma City	Moore, Glenn
TX	El Paso	Hamilton, Charles
TX	Dallas	Perriott, Harvey
TX	Houston	Mecha, Michael
TX	Houston	Spaulding, Kerry
TX	Austin	Matherson, Ronald



- Legend
- ★ Regional Director
 - Protective Security Advisor (PSA)
 - ▭ PSA Districts Including Tribal Lands
 - ▭ New Territories
 - REGION I
 - REGION II
 - REGION III
 - REGION IV
 - REGION V
 - REGION VI
 - REGION VII
 - REGION VIII
 - REGION IX
 - REGION X

Department of Homeland Security
Office of Infrastructure Protection (IP)
IP Geospatial Support Team
Contact: IP_GEO@HQ.DHS.GOV



Homeland Security

Value of the PSA Program

- PSAs:
 - Support comprehensive risk analyses for critical infrastructure
 - Assist in the review and analysis of physical/technical security for critical infrastructure
 - Convey local concerns and sensitivities to DHS and other Federal agencies
 - Relay disconnects between local, regional, and National protection activities
 - Communicate requests for Federal training and exercises

Protected Critical Infrastructure Information

- Established under the Critical Infrastructure Information Act of 2002
- Protects voluntarily submitted critical infrastructure information from:
 - Freedom of Information Act
 - State and local sunshine laws
 - Civil litigation proceedings
 - Regulatory usage
- Provides private sector with legal protections and “peace of mind”

PROTECTED CRITICAL INFRASTRUCTURE INFORMATION
Requirements for Use

Nondisclosure

This document contains Protected Critical Infrastructure Information (PCII). In accordance with the provisions of the Critical Infrastructure Information Act of 2002, 6 U.S.C. §§ 131 et seq. (the “CII Act”), PCII is exempt from release under the Freedom of Information Act (5 U.S.C. 552) and similar State and local disclosure laws. Unauthorized release may result in criminal and administrative penalties. It is to be safeguarded and disseminated in accordance with the CII Act, the implementing Regulation at 6 C.F.R. Part 29 (the “Regulation”) and PCII Program requirements.

By reviewing this cover sheet and accepting the attached PCII you are agreeing not to disclose it to other individuals without following the access requirements and to abide by the guidance contained herein. Your acceptance provides immediate access only to the attached PCII.

If you have not completed PCII user training, you are required to send a request to pcii-training@dhs.gov within 30 days of receipt of this information. You will receive an email containing the PCII user training. Follow the instructions included in the email.

Access

Individuals eligible to access the attached PCII must be Federal, State or local government employees or contractors and must meet the following requirements:

- Assigned to homeland security duties related to this critical infrastructure; and
- Demonstrate a valid need-to-know.

The recipient must comply with the requirements stated in the CII Act and the Regulation.

Storage: When not in your possession, store in a secure environment such as in a locked desk drawer or locked container. **Do not leave this document unattended.**

Transmission: You may transmit PCII by the following means to an eligible individual who meets the access requirements listed above. In all cases, the recipient must accept the terms of the Non-Disclosure Agreement before being given access to PCII.

Hand Delivery: Authorized individuals may hand carry material as long as access to the material is controlled while in transit.

Email: Encryption should be used. However, when this is impractical or unavailable you may transmit PCII over regular email channels. If encryption is not available, send PCII as a password protected attachment and provide the password under separate cover. **Do not send PCII to personal, non-employment related email accounts.** Whenever the recipient forwards or disseminates PCII via email, place that information in an attachment.

Mail: USPS First Class mail or commercial equivalent. Place in an opaque envelope or container, sufficiently sealed to prevent inadvertent opening and to show evidence of tampering, and then placed in a second envelope that has no marking on it to identify the contents as PCII. Envelope or container must bear the complete name and address of the sender and addressee. Envelope will have no outer markings that indicate the contents are PCII and must bear the following below the return address: **“POSTMASTER: DO NOT FORWARD. RETURN TO SENDER.”** Adhere to the aforementioned requirements for interoffice mail.

Fax: You are encouraged, but not required, to use a secure fax. When sending via non-secure fax, coordinate with the recipient to ensure that the faxed materials will not be left unattended or subjected to unauthorized disclosure on the receiving end.

Telephone: You are encouraged to use a Secure Telephone Unit/Equipment. Use cellular phones only in exigent circumstances.

Reproduction: Ensure that a copy of this sheet is the first page of all reproductions containing PCII. Clear copy machine malfunctions and ensure all paper paths are checked for PCII. Destroy all unusable pages immediately.

Destruction: Destroy (i.e., shred or burn) this document when no longer needed. For laptops or CPUs, delete file and empty recycle bin.

Sanitized Products

You may use PCII to create a work product. The product must not reveal any information that:

- Is proprietary, business sensitive, or trade secret;
- Relates specifically to, or identifies the submitting person or entity (explicitly or implicitly); and
- Is otherwise not appropriately in the public domain.

Derivative Products

Mark any newly created document containing PCII with “Protected Critical Infrastructure Information” on the top and bottom of each page that contains PCII. Mark “(PCII)” beside each paragraph containing PCII. Place a copy of this page over all newly created documents containing PCII. The PCII Submission Identification Number(s) of the source document(s) must be included on the derivatively created document in the form of a footnote.

For more information about derivative products, see the PCII Work Products Guide or speak with your PCII Officer.

Submission Identification Number: _____

PROTECTED CRITICAL INFRASTRUCTURE INFORMATION

Examples of Critical Infrastructure Information

- Protected information defined by the Critical Infrastructure Information Act includes:
 - Threats – Actual, potential, or threatened interference with, attack on, compromise of, or incapacitation of a critical asset
 - Vulnerabilities – Ability to resist threats, including assessments or estimated of vulnerability
 - Operational experience – Any past operational problem or planned or past solution including repair, recovery, or extent of incapacitation
- Any information normally available in the public domain will not be protected

Enhanced Critical Infrastructure Protection Initiative

- Establishes/enhances DHS relationship with facility owners and operators, and informs owners and operators of the importance of their facilities and the need to be vigilant
- ECIP survey
 - Identifies facilities' physical security, security forces, security management, protective measures, information sharing, and dependencies
 - Tracks implementation of new protective measures
- ECIP Dashboard
 - Creates facility protective measures index that can be used to compare against similar facilities
 - Tool for informing protective measures planning and resource allocation
- Information is protected under the PCII program
- Information used by DHS for steady-state analysis and incident management

ECIP Survey Tool

- Web-based vulnerability survey tool that applies weighted scores to identify vulnerabilities and trends for infrastructure and across sectors
- Facilitates the consistent collection of security information
 - Physical Security, Security Force, Security Management, Information Sharing, Protective Measures, Dependencies
- The tool allows DHS to:
 - Identify and document critical infrastructure overall security
 - Provide information for protective measures planning and resources allocation
 - Facilitate government information sharing
 - Enhance its ability to analyze data and produce improved metrics

ECIP Survey Data Categories

- Facility Information
- Contacts
- Facility Overview
- Information Sharing*
- Protective Measures Assessment*
- Criticality*
- Security Management Profile*
- Security Areas/Assets
- Additional DHS Products/Services
- Criticality Appendix
- Images
- Security Force*
- Physical Security*
 - Building Envelope
 - Delivery/Vehicle Access Control
 - Parking
 - Site's Security Force
 - IDS/CCTV
 - Access Control
 - Security Lighting
- Cyber Vulnerability
- Dependencies*

* Comparative analysis provided

Weighting Process and Participants

- Scoring for Physical Security, Security Management, and Security Force was conducted using a working group comprised of:
 - Physical security experts
 - Scientists
 - Mathematicians
 - Sector representatives
 - Owners and operators of facilities being weighted
- Weights validated using a separate panel of representatives
- Example: Fences



- Aluminum chain link fence
- 7 foot height
- With outriggers
- Barbed wire
- Fence Protective Measures Index = 71

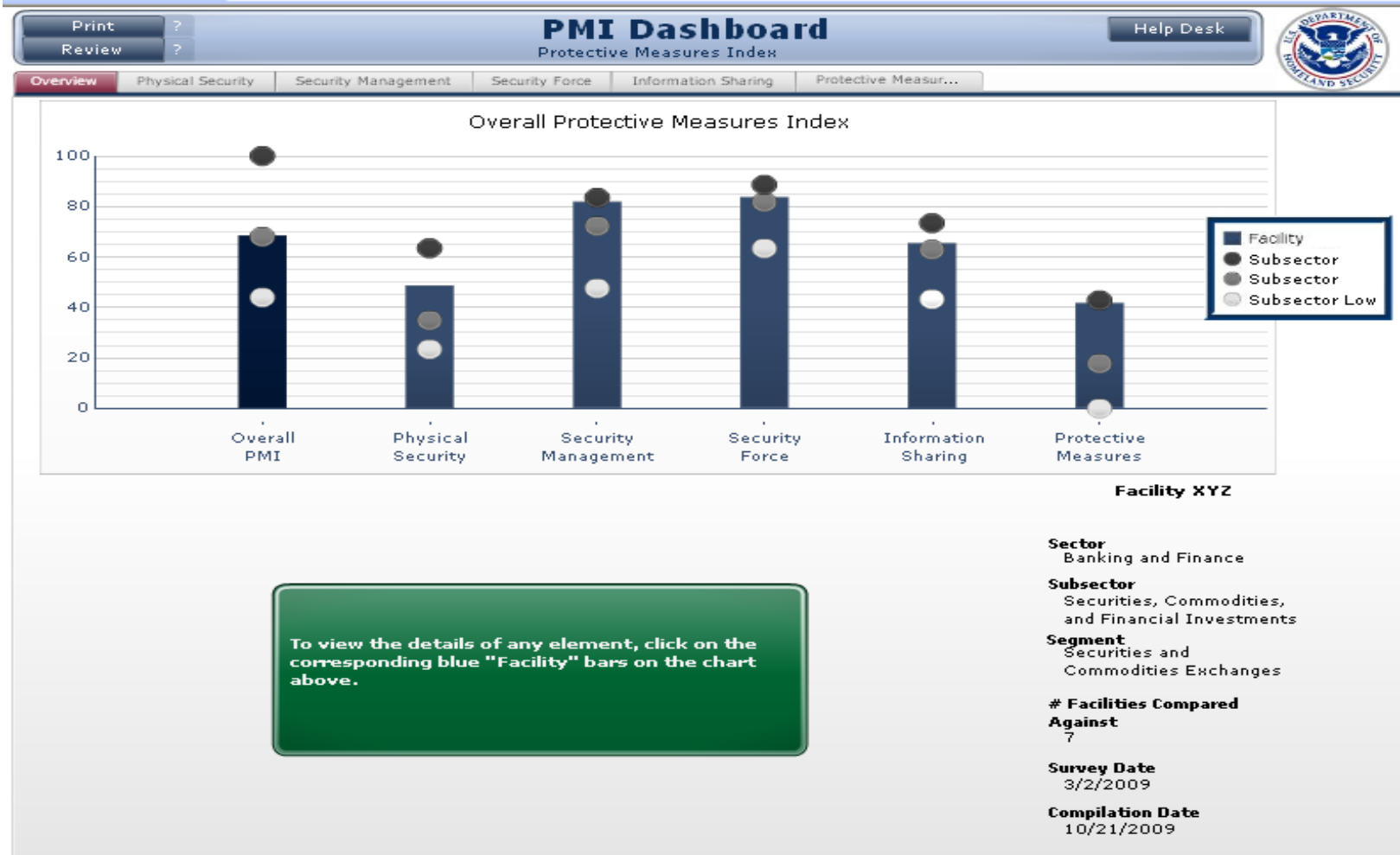


- Wood fence
- 6 foot height
- Partial clear zone
- Fence Protective Measures Index = 13



**Homeland
Security**

ECIP Deliverables

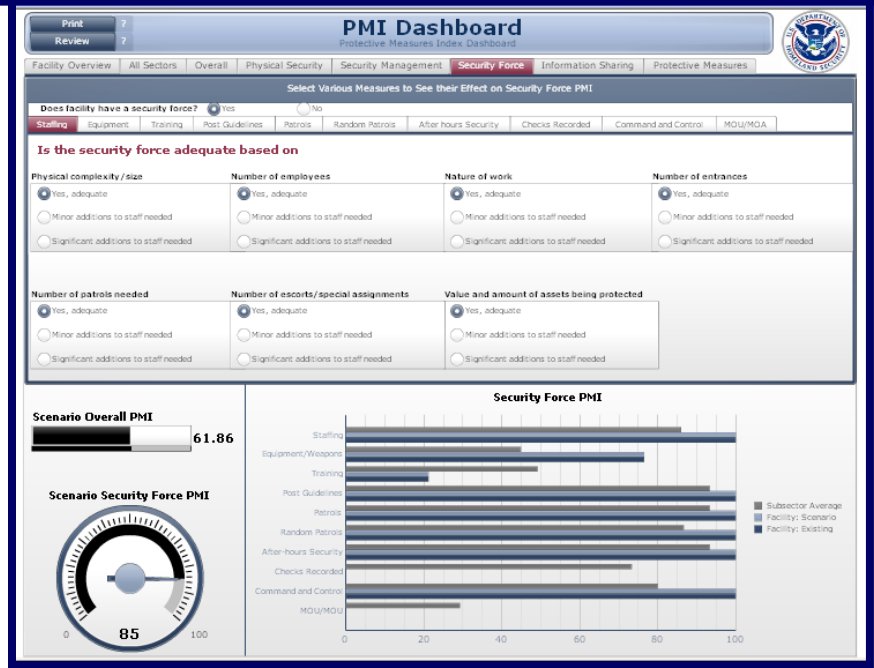
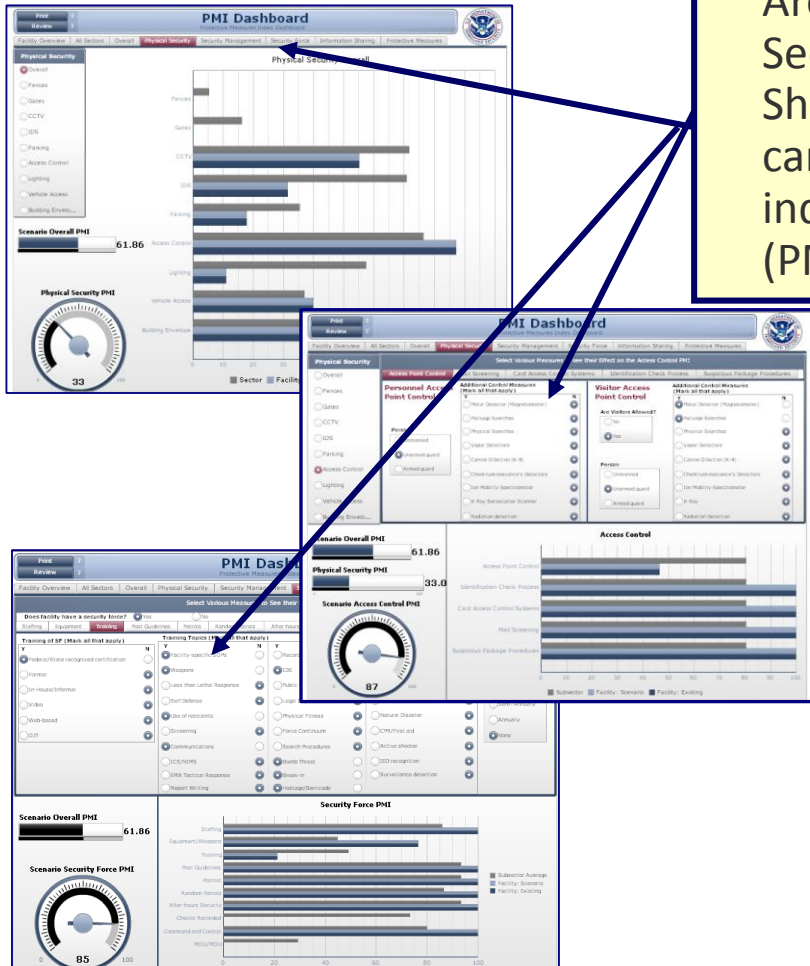


Notional Information

Dashboards and Information Sharing

Owner / Operator Protective Measure Index Dashboard

Areas individually separated into Physical Security, Security Management, Security Force, Information Sharing, and Protective Measures. Owner/Operator can make adjustments and see improvements to individual area and overall protective measure index (PMI).

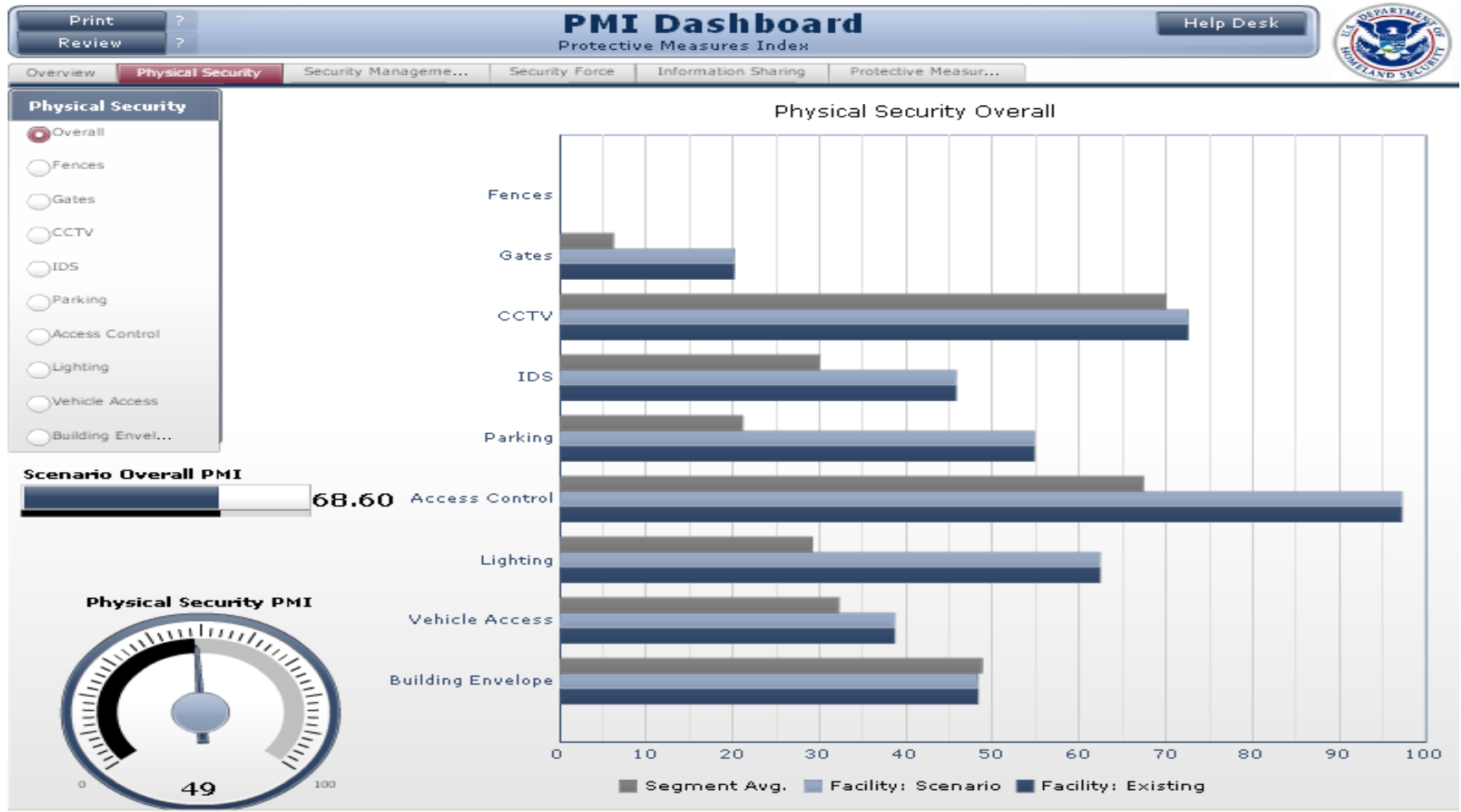


Greater understanding of the most significant changes and trends.

Notional Information

* Information provided is notional ECIP survey information and does not contain real survey information

Dashboard – Physical Security Example



Homeland Security

Notional Information

Infrastructure Survey Tool

- New version roll-out on January 8, 2013
- Web-Based Tool
 - New tabs
 - Same “buttonology”
 - Still can have an Access Builder
- Major Changes
 - Physical Security is almost the same and generates the Protective Measures Index (PMI)
 - More on resilience and business continuity to generate the new Resilience Measurement Index (RMI)
 - Natural hazard mitigation is more detailed
 - Dependencies questions incorporate RRAP-Only tab questions

The screenshot shows the 'Infrastructure Survey Tool' web interface. At the top, there is a warning banner: '*****WARNING***** Data contained on this system is Protected Critical Infrastructure Information.' Below this, the page title is 'Infrastructure Survey Tool' and the current site is 'Test site 1027, test, IL'. The sidebar on the left contains a list of navigation tabs: Facility Information, Facility Contact, Visit Participants, Consequences, First Preventers/ Responders Interaction, Significant Area(s) and Asset(s), Information Sharing, Security Activity Background, Security Management Profile, Resilience Management Profile, Security Force Profile, Perimeter Security, Entry Controls, Parking / Delivery / Standoff, Barriers, Building Envelope, Electronic Security Systems, and Systems. The main content area is titled 'Change Summary Information' and includes the following fields:

- Survey Date: MM/DD/YYYY
- Other facility names/aliases #1 (replicate as needed): Site Alias: [text input] [Add another name button]
- Who completed the SAV?:
 - National Guard
 - Team: [text input]
 - FTL/PSA
 - Name: [text input]
 - Other (e.g., SME)
 - Name: [text input]

Other Products and Resources

- DHS InfraGard
- DHS Homeland Security Information Network (HSIN)
- DHS Vulnerability Assessments
- DHS Infrastructure Protection Report Series
- DHS Bomb-making Materials Awareness Program
- DHS TRIPwire and Security Training

InfraGard

- <http://www.infragard.net>
- InfraGard is an information-sharing and analysis effort serving the interests and combining the knowledge base of a wide range of members.
- At its most basic level, InfraGard is a partnership between the Federal Bureau of Investigation and the private sector
- InfraGard is an association of businesses, academic institutions, State and local law enforcement agencies, and other participants dedicated to sharing information and intelligence to prevent hostile acts against the United States

Homeland Security Information Network

- HSIN is DHS's primary technology tool for trusted information sharing
- HSIN – Critical Sectors (HSIN-CS) enables direct communication between DHS; Federal, State, and local governments; and infrastructure owners and operators
- Content Includes:
 - Planning and Preparedness: Risk assessments, analysis, guidance, and security products; geospatial products and hurricane models; exercise and national event info
 - Incident Reporting and Updates: Real-time situational reports and alerts
 - Situational Awareness: Daily and monthly sector-specific and cross-sector reports on topics ranging from cybersecurity to emerging threats
 - Education and Training: Training on topics ranging from critical infrastructure resilience, to threat detection and reaction for retail staff

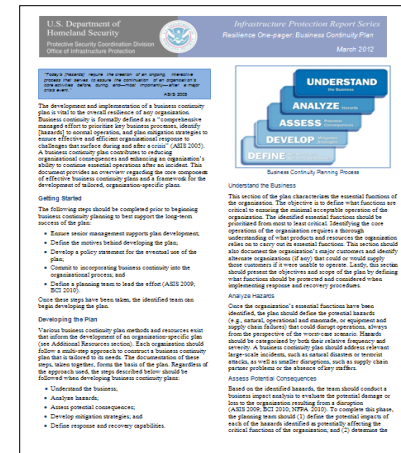
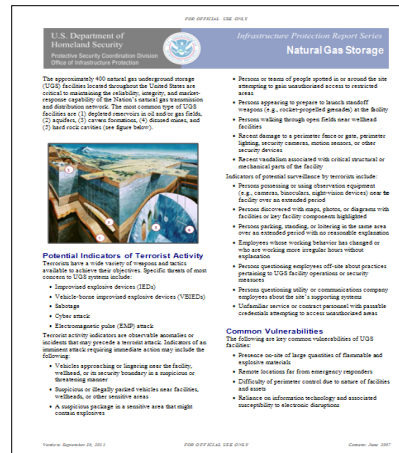
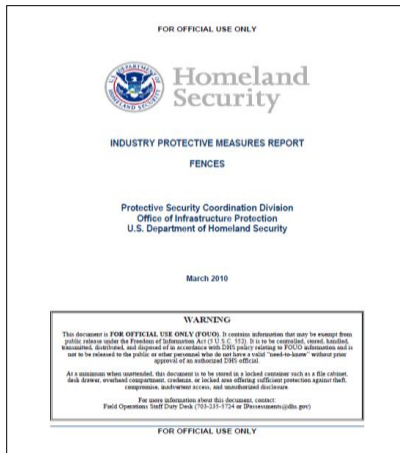


Vulnerability Assessment Programs

- Site Assistance Visits
 - Brings together Federal, State, and local partners and owners and operators to conduct an “inside the fence” assessment that identifies significant assets, vulnerabilities, protective measures, critical dependencies, and options for improving security and resilience. The findings are compiled in a final product that is PClI-protected
- Computer Based Assessment Tool
 - A computer-based visual cross-platform tool that displays critical site assets and current security postures
 - Integrates assessment data with immersive video, geospatial, and hypermedia data
 - Assists owners and operators, local law enforcement, and emergency response personnel, to prepare for, respond to, and manage critical infrastructure, National Special Security Events, high-level special events, and contingency operations



Infrastructure Protection Report Series



- The Infrastructure Protection Report Series (IPRS) is developed by the Office of Infrastructure Protection (IP) to increase awareness of the infrastructure mission and build a baseline of security and resilience knowledge throughout the Nation
- The focus of the IPRS is to identify Common Vulnerabilities (CV), Potential Indicators of Terrorist Activity, and associated Protective Measures (PM), along with actions that can be undertaken to enhance the resilience of critical infrastructure facilities
- Currently under development: IPRS Resilience Series and the IPRS Integrated Reports (CV, PI, PM)

Bomb-Making Materials Awareness

The image shows three overlapping brochures from the FBI-DHS Private Sector Advisory program. The top brochure is titled 'Hazardous Chemicals?' and lists chemicals like Acetone, Hydrogen Peroxide, and Ammonium Nitrate. The middle brochure is titled 'Peroxide Products?' and lists examples like Spa and pool spa, Hair color developer, and Curing and bonding products. The bottom brochure is titled 'Suspicious Behavior?' and lists signs like Nervous or evasive customer attitudes, Unusual product quantities, and Large cash purchases. Each brochure includes a 'Concerned?' section with contact information for local police and FBI offices.

- Comprehensive effort to educate law enforcement and private sector suppliers of materials used in the manufacture and construction of Improvised Explosive Devices (IED) of the potential risks associated with the sale or theft of those products
 - Point-of-Sale Awareness
 - Notification Processes
 - Supply Chain Awareness
 - Law Enforcement Training Material
- Facilitates partnerships between local law enforcement and private sector
- Encourages the retail industry to take an active role in bombing prevention efforts at little or no cost

TRIPwire and TRIPwire Community Gateway

- TRIPwire – Online unclassified network for law enforcement having bombing prevention responsibilities to discover and share tactics, techniques, and procedures of terrorist IED use
 - Combines expert analysis with relevant documents gathered from terrorist sources to assist law enforcement’s ability to anticipate, identify, and prevent IED incidents
- TRIPwire Community Gateway – Brings timely bombing prevention awareness information and analysis to the private sector with bombing prevention responsibilities
 - Responds to increasing private sector demand for bombing prevention information and assistance
 - Leverages content, expertise, and reputation of the existing TRIPwire system
 - Shares information on common site vulnerabilities, potential threat indicators, and effective protective measures for the 18 critical infrastructure sectors through HSIN-CS



Risk Mitigation Training

- IED Awareness/Bomb Threat Management Workshop
 - Provides an IED overview and focuses on the steps for managing bomb-related threats by outlining specific mitigation and response strategies to deal with explosive incidents and bomb threats
- IED Search Procedures Workshop
 - Enhances participants' knowledge of IED awareness, prevention measures, and planning protocols by outlining specific search techniques that reduce vulnerability and mitigate the risk of terrorist IED attacks
- Protective Measures Course
 - Provides owners and operators in the public and private sectors with the knowledge to identify the appropriate protective measures for their unique sector
- Surveillance Detection Course for Law Enforcement & Security Professionals
 - Provides participants with the knowledge, skills, and abilities to detect hostile surveillance conducted against critical infrastructure



Risk Mitigation Training (cont.)

- IED Counterterrorism Workshop
 - Enhances the knowledge of State and local law enforcement and public and private sector stakeholders by providing exposure to key elements of the IED threat, surveillance detection methods, and soft target awareness
- Counter-IED/Bomb Threat Management Workshop (Executive Level)
 - High-level workshop, designed for executives and critical infrastructure owners, provides exposure to key elements of the IED threat, soft target awareness, bomb threat management planning, and mitigation cost considerations in order to inform risk management planning

How Can You Help?

- Engage with PSAs and other partners on critical infrastructure protection programs and initiatives
- Encourage participation in efforts to identify, assess, and secure critical infrastructure in your community
- Communicate local critical infrastructure protection related concerns
- Enhanced protection and resilience depends on developing and strengthening partnerships between all entities with a role in critical infrastructure protection

Summary

- Success will depend in part on the strength of our partnership
- Our approach to addressing the terrorism threat will be a long term, ongoing project of the highest priority
- This effort will require the highest degree of vigilance and dedication from all of us



Homeland Security

For more information visit:
www.dhs.gov/criticalinfrastructure

Frank Westfall

Regional Director

Franklin.Westfall@dhs.gov