



Washington State Community Cybersecurity Update



“...A Matter of Public Safety and National Security”



“Status quo is no longer acceptable -- not when there's so much at stake. We can and we must do better.” — President Barack Obama

To view an excerpt from the President’s 2009 speech on community cybersecurity, click on the following link:
<http://mil.wa.gov/emergency-management-division/cyber-security-program>



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What we prepare for

Public Safety Communications



Economic



Catastrophe



Critical Infrastructure





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Working Together

Cyber Incident Response Coalition and Analysis Sharing | Exercise Partners | Cyber Resource Typing | Regional Monitoring | Cyber Hazard Threat Profile Partners

Public Sector

- Secure resilient systems
- Support response

Emergency Management

- Strategies, policies, and frameworks
- Unite efforts

Private Sector

- Leaders and innovators
- Critical Infrastructure
- Backbone



Community Cybersecurity Capability Maturity Model

LEVEL 1: Initial

- Limited or no integration of cybersecurity in EMD units *PEOPLE*
- No EMD-run exercising of cyber events. No HSGP integration. No resource typing. *PREPAREDNESS*
- Limited policy and planning. State agency roles and responsibilities unclear. *POLICY*
- Minimal direct engagement with public & private sector on cyber EM *PARTNERSHIPS*

LEVEL 2: Advanced

- CSM hired; evaluates each EMD unit *PEOPLE*
- State TEP includes cyber events in 5 of 8 exercises & TTX. HSGP/Resource typing researched. *PREPAREDNESS*
- CEMP & Annex drafts finalized. Interagency MOA. HIVA and THIRA reviewed. *POLICY*
- EM outreach begins with public & private sector *PARTNERSHIPS*

LEVEL 3: Self-Assessed

- Formal training for EMD via TEP and internal staff events *PEOPLE*
- Cyber exercises conducted and assessed. Grant flow includes cybersecurity. Resource typing process est. *PREPAREDNESS*
- CEMP updated; Annex published; MOA complete. HIVA and THIRA updated. *POLICY*
- UCG identified to include 16 CIKR POCs *PARTNERSHIPS*

LEVEL 4: Integrated

- EMD Units & jurisdictions trained; process updated *PEOPLE*
- Significant Cyber Incident exercise. Grants pgm integrated. Resource typing est. *PREPAREDNESS*
- CEMP/Annex exercised & revised. State agency roles defined. *POLICY*
- UCG and CIKR reps aware of roles, united, and prepared *PARTNERSHIPS*

LEVEL 5: Vanguard

- Cybersecurity a statewide EM business imperative. *PEOPLE*
- WA ready for cyber incident; recognized as national leader. Structured funding/typing flow. *PREPAREDNESS*
- CEMP/Annex validated and finalized. Policies updated. *POLICY*
- UCG prepared and available 24/7 for AWC notification. *PARTNERSHIPS*

PEOPLE

PREPAREDNESS

POLICY

PARTNERSHIPS



Update - Policy

The White House

Office of the Press Secretary

For Immediate Release

July 26, 2016

Presidential Policy Directive -- United States Cyber Incident Coordination

July 26, 2016

PRESIDENTIAL POLICY DIRECTIVE/PPD-41

SUBJECT: United States Cyber Incident Coordination

The advent of networked technology has spurred innovation, cultivated knowledge, encouraged free expression, and increased the Nation's economic prosperity. However, the same infrastructure that enables these benefits is vulnerable to malicious activity, malfunction, human error, and acts of nature, placing the Nation and its people at risk. Cyber incidents are a fact of contemporary life, and significant cyber incidents are occurring with increasing frequency, impacting public and private infrastructure located in the United States and abroad.

Lead for asset response

- Department of Homeland Security/National Cybersecurity and Communications Integration Center

Lead for threat activities

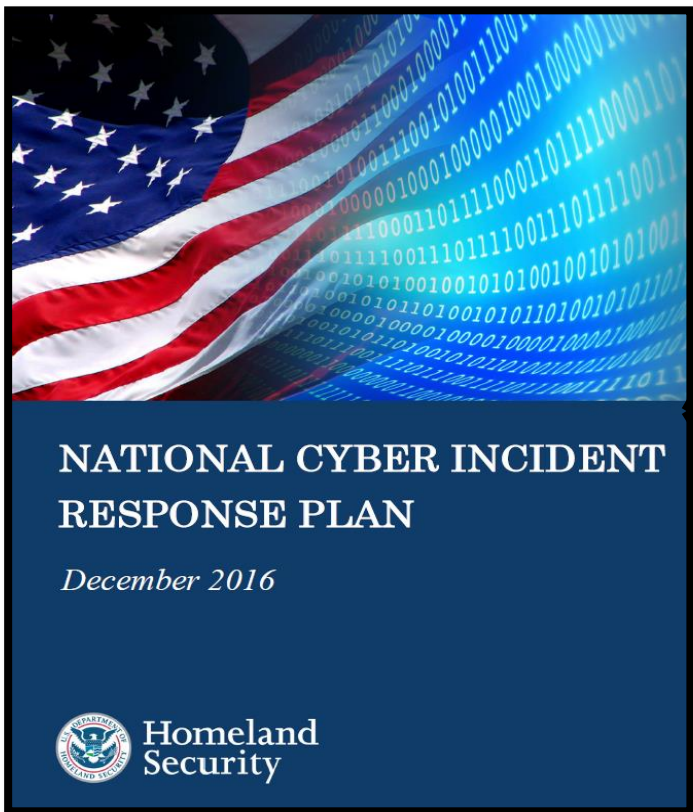
- Department of Justice (FBI)

Lead for intelligence support

- Office of the Director of National Intelligence



Update - Policy

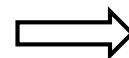
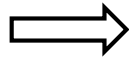


Cyber Incident: An event occurring on or conducted through a computer network that actually or imminently jeopardizes the confidentiality, integrity, or availability of computers, information or communications systems or networks, physical or virtual infrastructure controlled by computers or information systems, or information resident thereon.

Significant Cyber Incident: A cyber incident that is (or group of related cyber incidents that together are) likely to result in demonstrable harm to the national security interests, foreign relations, or economy of the United States or to the public confidence, civil liberties, or public health and safety of the American people.



Significant Cyber Incident Response



Significant Cyber Incident

Activation

Coordination Group





Update: Exercises and Training

• Exercises

- Emerald Down – 16 February 2017
- Pierce County Cyber VTTX – 26 April 2017
- Executive Tabletop – 9 May 2017
- Cyber Guard Prelude – 23-25 May 2017

• Training

- TEEX Community Cybersecurity (AWR136, MGT452, MGT385) – 31 January – 2 February 2017
- FEMA Cybersecurity & Cyber Incident Awareness: Knowing Yourself and Knowing the Enemy – 27 April 2017, 0800-1200

NEW FEMA TRAINING AVAILABLE

**CYBERSECURITY & CYBER INCIDENT AWARENESS:
KNOWING YOURSELF AND KNOWING THE ENEMY**

The foundation of your organization rests upon your cybersecurity efforts. In partnership with the Federal Emergency Management Agency (FEMA), the Illinois Emergency Management Agency (IEMA) and the Center for Public Safety and Justice (CPSJ) at the University of Illinois Chicago are offering an instructor-led course to create a broader awareness of the principles and best practices of a robust cybersecurity program for all critical infrastructure sectors.

This course specifically utilizes the *Cybersecurity Framework*, created by the National Institute of Standards and Technology by Executive Order, as a basis for building awareness based on use of common language, flexibility and its reliance on industry best practices. Participants will gain an understanding of the *Framework* and apply it to assess their organization's current cybersecurity posture and identify areas and resources for direct improvement. A two-hour web-based course is a prerequisite for the four-hour instructor-led course. Instructions for this web-based course will be given after registration for this course.

Central course topics include: The *Cybersecurity Framework* and creation of an organization profile; the role the mission statement, business objectives and assets play in cybersecurity; possible enemies; creating employee buy-in; and building partnerships in your region and sector.

This course and its activities are designed for participants to attend in teams of TWO from each organization. (One participant representing the Business management perspective AND one representing the IT perspective).

Date: Thursday, April 27, 2017, 8:00a.m. - 12:00p.m.

Location: Building 92, Camp Murray, Washington 98430

To register for this course, please contact Joan Carnduff at jcarnd4@uis.edu

CPSJ
Center for Public Safety and Justice
College of Urban Planning and Public Affairs
University of Illinois at Chicago

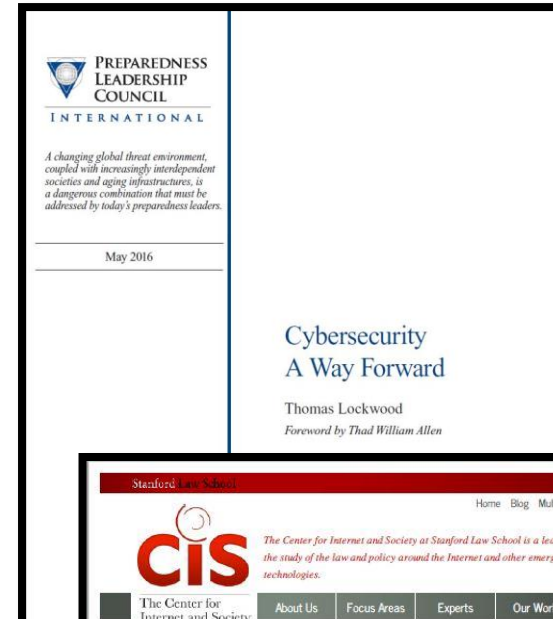
FEMA

IEMA
ILLINOIS EMERGENCY MANAGEMENT AGENCY



Update: PNW Cyber Reviews

- Preparedness Leadership Council, Cybersecurity A Way Forward
- The Center for Internet and Society at Stanford Law School. State-Level Cyber Security Efforts: Washington State and the Evergreen Approach to Cyber Security



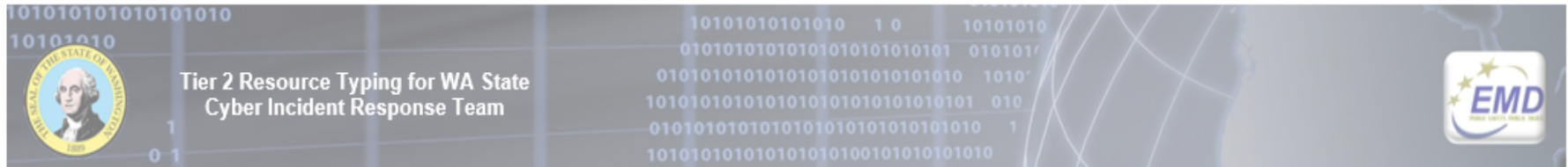


Update: Cyber Related Legislation

- **HB 1417:** Concerning the harmonization of the open public meetings act with the public records act in relation to information technology security matters.
- **HB 1418:** Establishing a blue ribbon panel on cybersecurity.
- **HB 1419:** Granting the governor authority to proclaim a state of emergency in the event of a substantial cybersecurity incident.
- **HB 1929:** Concerning independent security testing of state agencies' information technology systems and infrastructure by the military department.
- **HB 2086:** Establishing a task force to address state interagency coordination in cybersecurity.



Update: Cyber Resource Typing



Cyber Incident Response Team

DESCRIPTION	The Cyber Incident Response Team responds to a significant cyber incident affecting critical infrastructure				
RESOURCE CATEGORY	Cybersecurity		RESOURCE KIND	Cyber Incident Response Team	
OVERALL FUNCTION	<p>The Cyber Incident Response Team carries out the following activities:</p> <ol style="list-style-type: none"> 1. Investigates and analyzes all relevant cyber and network activities related to the crisis situation with the purpose of achieving the speediest recovery of the impacted critical infrastructure 2. Uses response methods to maximize preservation of life, property, and data integrity 3. Documents all steps and actions taken during the operations and develops a Situation Report. 		COMPOSITION AND ORDERING SPECIFICATIONS	<ol style="list-style-type: none"> 1. Logistics for deploying this team, such as security, lodging, transportation, meals, etc. should be discussed with the resource provider prior to deployment 2. Teams work up to 12 hours per shift, are self-sustained for 72 hours, and deployable for up to 14 days 3. Multiple teams may need to be ordered to provide 24 hour coverage 4. The entire team may or may not be constituted from a single source entity 5. The requestor should specify if the personnel should have training and experience with specific software applications, hardware, and equipment 	
TYPE RESPONSE TEAM			Type I	Type II	Type III
COMPONENT	METRIC/ MEASURE	CAPABILITY			
Personnel	Per Team	Management and oversight		2 – Team Chief and Deputy (Cyber Incident Responder)	



Update: Outreach and Info Sharing

- Cyber Incident Response and Analysis Coalition (CIRCAS) – 15 March 2017
- Regional Emergency Communications Coordination Working Group (RECCWG) – 14 March 2017
- AGORA – 24 March 2017
- Partners in Emergency Preparedness (PIEPC), Tacoma – 19 April 2017
- Cyber Outreach to members of Bellevue Community - 5 May 2017
- **Cyber Communications – Common Operating Picture Working Group/Critical Incident Operational Teleconference – ongoing**

CC COP Critical Incident Conferencing Bridge





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Questions?

