



# Rhode Island Air National Guard



## Current Cyber Landscape



This Overall Classification of this Briefing is:

**UNCLASSIFIED//FOUO**

**Major Christopher Allen**



# Executive Direction

- **Presidential Policy Directive/PPD-21 – Critical Infrastructure Security and Resilience (12 Feb 2013)**
  - National unity of effort to strengthen and maintain secure, functioning, and resilient critical infrastructure
- **Presidential Executive Order – Promoting Private Sector Cybersecurity Information Sharing (13 Feb 2015)**
  - Encouraging Private-Sector Cybersecurity Collaboration
  - Enabling Better Private-Public Information Sharing
  - Providing Strong Privacy and Civil Liberties Protections
- **Presidential Executive Order – Blocking the Property of Certain Persons Engaging in Significant Malicious Cyber –Enabled Activities (1 April 2015)**
  - Authority to respond to the threat posed by malicious cyber actors



# Legislative Direction

- **The Protecting Cyber Networks Act (H.R. 1560) - April 2015**
  - Voluntary Information Sharing between private companies and federal government (non-DoD and NSA)
  - Cyber Threat Indicators for Cybersecurity Purposes **ONLY**
  - Congressional Oversight
- **National Cybersecurity Protection Advancement Act (H.R. 1731) April 2015**
  - Department of Homeland Security's (DHS) center for integrating cyber threat information is the National Cybersecurity and Communications Integration Center (NCCIC)
    - Solely to prevent and respond to cyber attacks
    - Protect the privacy and civil liberties of all Americans
    - Pro-privacy, pro-security bill ensures the sharing of cyber threats is transparent and timely



# Department of Defense Direction



- **DoD**
  - Defend DoD networks, systems, and information
  - Defend the United States and its interests against cyberattacks of significant consequence
  - Provide integrated cyber capabilities to support military operations and contingency plans
- **USCYBERCOMMAND (USCC)**
  - DoD Cyber professionals will grow by 6000+ by FY 18
- **United States Air Force (USAF)**
  - AFSPC/24AF/67CW/26COG/33NWS
  - ANGRC/102NWS
  - JTF Cyber
- **Rhode Island (JTF Cyber/DHS?)**
  - RI JFHQ/102NWS



# 102 NWS Mission



**Citizen Airmen providing Active/Passive DCO & Intel capabilities to USCYBERCOM, USAF, **DHS, FEMA Region I and RI** to defend, deny, detect, analyze, research and report network intrusions and vulnerabilities.**





# USAF Requirements



- **Air Force Cyberspace Defense (ACD) Weapon System-Computer Network Defense Service Provider (CNDSP) for the AFIN**
  - 24/7/365 monitoring of AF cyber domain
  - Real-time response to and investigation of network/computer intrusions
  - CNDSP for 3<sup>rd</sup> party enclaves
    - COCOM
    - AOC
    - USAF/Joint R&D
- **Pro-active Defense and Defensive Counter Cyber – Pursuit (DCC-P)**



# Rhode Island Cyber Disruption Team (RI CDT)



- **Primary Role of ANG as member of RI Cyber Disruption Team**
  - **Participate in Bi-Monthly meetings since 2012**
  - **Summer 2014 participated in HOT SIM training with RI State Police**
  - **Sponsor/Mentor for Cyber Patriot**
  - **Multiple RI EMA cyber Tabletops**
  - **Cyber Yankee 2015**
  - **Limited to Train, Advise, Assist (TAA) Role**
    - **Legal Limitations**
    - **SAD Requirements – Direct EMA/CDT coordination**



# Military Capabilities

- **Cyberspace Operations Planning Team**
  - Integrates Cyberspace Ops in the Order of Battle
- **Defensive Cyberspace Operations Crew**
  - Detect/defend/deny adversary freedom of action in an AOR
  - Supports Critical Infrastructure
  - Analyzes/secures/creates affects to establish/maintain superiority
  - Defends friendly info against adversary efforts
  - Coordinated/integrates with air/space/cyberspace to enhance ops
- **Cyberspace Intelligence**
  - Information Collaboration/Sharing
  - Preparation of Operational Environment
  - Battle Damage Assessment





# Cyber Skills Civilian Snapshot



- **DSG Civilian Positions**
  - Information Security Analyst
  - Information Technology Manager
  - Network Engineer
  - Systems Engineer
  - Computer Support Analyst
  - Infrastructure Technician
  - Technical Systems Analyst
- **Degrees**
  - Communications
  - Information Systems
  - Cyber Security
  - Information Assurance
- **Certifications**
  - BIST
  - CCNA
  - CEH
  - CISSP
  - DISA Level 1
  - GCIH/GSEC
  - Security+



# *Emergency Support Functions (ESF)*



- **1) Effects Delivery – These ESFs perform functions resulting in the direct delivery of life saving or property protection effects.**
  - **1. ESF #3 – Public Works and Engineering**
  - **2. ESF #4 – Firefighting (air and ground)**
  - **3. ESF #6 – Mass Care, Emergency Assistance, Temporary Housing, and Human Services**
  - **4. ESF #8 – Public Health and Medical Services**
  - **5. ESF #9 – Search and Rescue**
  - **6. ESF #10 – Oil and Hazardous Materials Response**
  - **7. ESF #13 – Public Safety and Security**
- **2) Enablers – These ESFs perform functions primarily in support of two or more of the Effects Delivery ESFs, enabling them to deliver lifesaving or property protection effects.**
  - **1. ESF #1 – Transportation (air and ground)**
  - **2. ESF #2 – Communications**
  - **3. ESF #5 – Information and Planning (includes Emergency Management and Incident**



# Limiting Factors

- **Title and Authority (Legal)**

- **State Active Duty**
- **Title 32**
- **Title 10**

- **Equipment Utilization**

- **RI-EMA/RI CDT procured RAPID-TAC equip (previous slides)**
- **Currently cannot utilize Federal Air Force Cyberspace Defense (ACD) Weapon System assets on critical infrastructure, OGA or civilian networks**
- **ANG to field VITE NLT FY17 for 10 National Cyber Units 102 NWS)**



# *Critical Infrastructure*

- **Academia, Civilian/Business, OGA, State Government, Utilities**
- **Focus on interoperability, Training, Info Sharing**
  - Academia – MIT LL, Hanscom AFB
  - Medical - Blue Cross Blue Shield RI, CVS Health
  - Financial – Citizen’s Bank
  - Insurance – FM Global, Amica
  - Industrial/Utilities – National Grid
  - Intellectual Property/PII – All, Dell
  - Government – DHS, DIA, State of RI, NE Region



# Questions?