

HEALTHCARE & PUBLIC HEALTH SECTOR COORDINATING COUNCIL AND BLACK SKY HAZARDS

EARL J. MOTZER, PH.D., LFACHE
CHAIR, HPH SECTOR COORDINATING COUNCIL AND
CHAIR, CIC-SC CROSS-SECTOR BLACK SKY
HAZARDS COORDINATION WORKING GROUP



Healthcare & Public Health
Sector Coordinating Council

FEMA “COMMUNITY LIFELINES”

- Safety & Security, Food, Water, Sheltering,
- Healthcare and Public Health,
- Energy (Power and Fuel),
- Communications,
- Transportation, Hazardous Material
- Enable the continuous operation of government functions and critical business, and essential to human health and safety or economic security.



HEALTHCARE AND PUBLIC HEALTH SECTOR COORDINATING COUNCIL



- SERVE THE NEEDS of sector owners/operators and associations in preparing for, responding to, and recovering from significant hazards, including natural, technological and manmade disasters, and natural or regional health crises.
- ADVOCATE THEIR INTERESTS to state and federal agencies and legislators to enhance government policies, plans and actions regarding infrastructure protection.

HEALTHCARE AND PUBLIC HEALTH SECTOR COORDINATING COUNCIL



- Serves as a PARTNERSHIP VEHICLE interfacing between the private and the public sectors of HHS and the other fifteen sectors:
 - Chemical, Commercial Facilities, Communications, Critical Manufacturing, Dams, Defense Industrial Base, Emergency Services, Energy, Financial, Food and Agriculture, Government Facilities, Information Technology, Nuclear, Transportation and Water and Waste Water.

HEALTHCARE AND PUBLIC HEALTH SECTOR COORDINATING COUNCIL



- SUBSECTORS – Direct Patient Care, Health Information & Technology, Health Plans & Payers, Laboratory & Blood, Mass Fatality Management and Medical Materials.
- TASK & WORKING GROUPS – Active Shooter and Workplace Violence, Biotechnology, Black Sky Hazards, Counter-Improvised Explosive Devices Annex, Cybersecurity, and Response Coordination

CYBERSECURITY WORKING GROUP TASKS



- Cross-Sector Engagement,
- Cyber Risk Assessment,
- Exercises,
- Future Gazing,
- Information Sharing,
- Intellectual Property Data Protection,
- Marketing & Outreach,
- Medical Device Security & Management,
- Regulation & Policy,
- Supply Chain/Third Party Cyber Risk Management, Telemedicine,
- Top Ten Best Practices,
- Workforce Development

PROPOSED NEW CYBERSECURITY INITIATIVES



- International Engagement/Policy
- Security Clearances
- Incident Response Roles & Responsibilities
- Regulatory Harmonization for Healthcare Cybersecurity
- Communication & Collaboration Tools
- Membership Development

ADDITIONAL HPHSCC PROJECTS



- Counterintelligence Awareness,
- Crisis Re-Entry to Disaster Areas,
- Enhanced Information Sharing with DHS & HHS Regional Directors,
- Supply Chain Issues,
- Support for a Regional Disaster Health Response System,
- Utility Restoration Prioritization

HELP US TO HELP YOU!!



- Be part of the solution and encourage your employer to join the HPHSCC.
- Contact Secretariat@healthcareready.org
- No dues or fees.
- Monthly one hour telephone briefings with minutes sent by email if you miss the meeting.
- Semi-annual in-person meetings (voluntary)
- Weekly email updates and volunteer to serve on subsector, task or working group.

BLACK SKY HAZARDS



- WHAT ARE THEY?
- Things that cause long term power outages (weeks to months) or limit humans from dealing with them:
 - extreme hurricanes, earthquakes, tornados;
 - pandemics;
 - physical attacks;
 - cyber attacks;
 - coronal mass ejections;
 - radio frequency weapons;
 - electromagnetic pulses(EMPs).



BLACK SKY HAZARDS



- WHAT ARE THEIR EFFECTS?
 - Potential loss of power, water, communications, the economy, utilities, transportation; healthcare and public health, supplies, police, fire, EMS response capability
 - Potential closure of stores, businesses, factories, gas stations
 - No internet – Very few cell phones
 - Human illnesses, injuries and/or death
 - If a nation-wide event that lasts a year, a dire prediction is that 90% of population could die – thus we need to be prepared

HISTORY OF EMP EFFECTS



- The U.S. has been aware of EMP effects since 1945.
- A nuclear test over the Pacific Ocean in 1962 unexpectedly caused street lights, telephone systems and other electric infrastructures to be disrupted and damaged in Hawaii over 600 to 900 miles away.
- The same year the Soviet Union exploded a nuclear device over Kazakhstan and caused more damage over land.

HISTORY OF CYBER THREATS

- While evidence of biological and chemical warfare are thousands of years old, it wasn't till the 1960s that futurists at the Rand Corporation were theorizing about how a hyper-connected world would afford new opportunities for aggressors.



HISTORY OF CYBER THREATS



- Kinetic weapons can't defeat cybernetic weapons but cybernetic weapons can defeat kinetic weapons.
- Hard to identify the perpetrator. When you see the gun, you don't know who pulled the trigger. When you see the finger on the trigger, you don't understand to what body it is connected.

BLACK SKY HAZARDS



- GOVERNMENT SECTOR ACTIVITY
- Not much progress in the past due to characterization of “high impact but low probability.”
- The current threats from our enemies and more education about causes and effects of long term power outages leading to more attention.
- Three EMP CommissionS (2001-2005, 2007-2008 and 2016-2017)

BLACK SKY HAZARDS



- DHS STRATEGY FOR PROTECTING AND PREPARING THE HOMELAND AGAINST THREATS OF ELECTROMAGNETIC PULSE AND GEOMAGNETIC DISTURBANCES 10/9/18.
- PRESIDENT'S EXECUTIVE ORDER 13865 COORDINATING NATIONAL RESILIENCE TO ELECTROMAGNETIC PULSES 3/26/19.

BLACK SKY HAZARDS



- 2018 DHS STRATEGY GOALS
 - Improve Risk Awareness of Electromagnetic Threats and Hazards
 - Enhance Capabilities to Protect Critical Infrastructure
 - Promote Effective Electromagnetic Incident response and Recovery Efforts

BLACK SKY HAZARDS



- WHAT NEEDS TO BE DONE?
 - Cross-sector and public education and planning,
 - Harden the power grid and communication systems to be cyber and EMP protected,
 - Develop infrastructure restoration priorities to save the maximum number of lives;
 - Develop exercises;
 - Develop playbooks to include local, state, regional, national and international cooperation and support.

BLACK SKY HAZARDS



- WHAT IS BEING DONE BY THE PRIVATE SECTOR?
 - Electricity Infrastructure Security (EIS) Council Annual Summits and EARTH EX 8/21/19
 - Critical Infrastructure Cross-Sector Council (CIC-SC)
 - Cross-Sector Black Sky Hazards Coordination Working Group (C-SBSHCWG)
 - Sector Task Groups
 - RC3, SLTTGCC, Organization and Association Initiatives
 - InfraGard Electromagnetic Pulse Special Interest Group (EMP SIG)

QUESTIONS FOR YOU TO CONSIDER WHEN YOU GET BACK HOME



- How will you maintain power and water/wastewater if there is no more fuel for generators or when the generators fail to operate?
- How will you receive /send emergency calls when the cell, landline and satellite telephones, internet and radios don't work?
- How will you and other employees get to work or be able to respond to calls if their cars/trucks won't run or there are no gas/deliveries?

QUESTIONS FOR YOU TO CONSIDER WHEN YOU GET BACK HOME



- Where will you get food, water, supplies, pharmaceuticals and equipment if there are no trucks, utilities or factories operating?
- Where will you get cash to purchase what limited supplies become available or to pay employees if banks are closed?
- Have your continuity of operations plans (COOP) plans been modified to include Black Sky Hazards?

QUESTIONS FOR YOU TO CONSIDER WHEN YOU GET BACK HOME

- How will you convince employees and their families and friends to store at least six months' supply of food and water?
- How will you convince employees and their families on maintenance medications to have at least three months' supply on hand?

RESILIENT HOSPITALS HANDBOOK

- https://www.empcenter.org/wp-content/uploads/2017/09/CF_Resilient_Hospitals_Handbook_edits_cm_Version3b2.pdf



QUESTIONS

- THANK YOU FOR ATTENDING
- Contact Information
- emotzer@emhealth.org

