



Crossroads of America

Chapter Meeting

6:00 PM, Tuesday May 12, 2020 www.incose-coa.org

Program: A Discussion on the NDRC and EMP Preparedness Efforts to Date

Background: The InfraGard National Electromagnetic Pulse Special Interest Group (EMP SIG) was formed in July 2011 for the purpose of sharing information about catastrophic threats to our nation's critical infrastructure. Those threats include: cyber-attacks, extreme space weather, manmade EMP attacks, pandemics and coordinated physical or kinetic attacks. In 2019 the National InfraGard Board of Directors changed the name of this special interest group to – the National Disaster Resilience Council – NDRC.

Problem Statement: Low probability, high impact threats to the US electrical grid from cyber-attacks, electromagnetic pulse (EMP) attacks from nation states or terrorists, or solar storms known as geomagnetic disruptions (GMD) could occur with little or no notification and have the potential of crippling America's critical infrastructure at a regional or national level for weeks, months or even years. Such a large-scale power outage would impair the social and economic processes that Americans require and depend on to meet their daily needs.

In 2015, the Secretary of Energy directed the development of an EMP resilience strategy in coordination with the electric power industry. In 2018 the U.S. Department of Homeland Security published *The Strategy for Protecting and Preparing the Homeland Against Threats of Electromagnetic Pulse and Geomagnetic Disturbances*, a long-term, partnership-based approach to confronting this challenge. The DHS Strategy and the companion Implementation Plan improve the Department's understanding of electromagnetic threats and hazards. Based on these and other federal guidance and policy documents, in 2018 FEMA Regional Offices and some state and local governments began to develop Power Outage Incident Annexes as a part of their all-hazards planning process.

In November 2018, Joint Base San Antonio (JBSA) leaders brought together subject matter experts from government, military, industry, research, and academia to create a collaborative pilot project known as San Antonio Electromagnetic Defense, or SA-EMD, as part of the JBSA Electromagnetic Defense Initiative, or JBSA-EDI. Purpose of the collaboration was to enhance resiliency across JBSA and San Antonio, Texas against a potentially catastrophic electromagnetic pulse or other events that could cause a long-term regional power outage. In March 2019 the President signed Executive Order 13865, Coordinating National Resilience to Electromagnetic Pulses. Its purpose being the development of sustainable, efficient, and cost-effective approaches to improving the Nation's resilience from the effects of EMPs.

Current Status: Members of the NDRC regional teams continue to be involved and engaged with public and private sector partners moving state and local policy forward with varying degrees of success. This presentation will highlight efforts to date and directions for the future.

Questions on this project can be addressed by contacting Steve Pappas at:

scpappas@outlook.com (317) 695-6961; 5313 Bancroft Lane, Greenwood, Indiana 46142



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Meeting Location / Host Site (see included directions and map to host site and parking)

No physical site this month. Please join via GlobalMeet.

Satellite Site

No satellite site this month

Remote Access: If you cannot attend at the host location, join us remotely:

Web Address: [https://incose.pgimeet.com/INCOSE GMTwo](https://incose.pgimeet.com/INCOSE_GMTwo)

Access Number: 1-719-457-6209

Guest Passcode: 519 731 6920

Dial In Numbers (if you don't use Computer VOIP):

USA : 1-605-475-5604

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Meeting RSVP

Not required.

Event Schedule

5:00 – 6:00	CoA Board Meeting
6:00 – 6:15	Break
6:15 – 6:30	CoA Chapter Business Meeting (all welcome!)
6:30 – 7:30	Program
7:30 PM	Adjourn

Business Meeting:

- Call to Order
- Announcements
- Treasurer's Report
- Old Business
- New Business



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Over 30 years of experience in emergency management team building fostered through revised emergency management policy and plans in both the public and private sectors. In 2017 he contracted with FEMA Region VII in Kansas City, Missouri to re-write catastrophic incident annexes focusing on the life-line critical infrastructure sectors for the region's all-hazard response and recovery operations plan. Public Health, Joint Commission compliance, NIMS training and hospital preparedness consulting work with the following hospitals and locations have included: Kindred Hospital network in Indiana and Illinois, the Atrium Medical Center in Corinth, Texas, Johnson County, Indiana Memorial Hospital, Hancock County, Indiana's Regional Hospital, Jackson County Indiana's Schneck Hospital, Hamilton County, Indiana's Riverside Hospital, Shelby County's Major Hospital. Other public sector clients and similar projects have included: developing safety and security programs for the City of Franklin, Indiana's wastewater treatment facility, Whiteland, Indiana's water treatment plant, Homeland Security workshops and Table Top Exercises for the City of Dayton, Ohio, Johnson County, Indiana; Johnson County, Indiana school districts, and system safety programs for the U.S. Army's Base Realignment and Closure initiative.

Served as president of the Indiana chapter of the FBI sponsored InfraGard program, a non-profit organization dedicated to the protection of the United States, critical infrastructures and the American people. Currently a team member of InfraGard's Midwestern Region National Defense Resilience Council (NDRC). Co-authored the guidebook: Powering Through, From Fragile Infrastructure to Resilient Communities (2016). Contributed to developing public private sector partnerships – P3s, with InfraGard chapters across the country, state and local governmental homeland security agencies, non-governmental organizations and trade associations. Some of these NGOs have included: The International Council on Systems Engineering (INCOSE), the Information Systems Audit and Control Association, the American Water Works Association, the Indiana Municipal Electric Association, the International Association of Automation, Indiana Department of Environmental Management, the Metro Coalition for Construction Safety in Indianapolis, Indiana.

Steve Pappas has served for over 26 years in U.S. Army on active duty and in several reserve assignments. As a DoD contractor at Indiana University, he developed policy, products and services to the US Navy, Marine Corps, US Army and Air Force installations worldwide. Following 9/11 2001, Steve Pappas developed a comprehensive safety and facility security program that became a national standard for excellence serving a nationwide private sector water utility.