EARTH Ex Exercise Webinar
Multi-Sector Exercise Opportunity

July 19, 2017 1-2 pm ET
Agenda

• Introduction
• Overview of the NISC
• EARTH Ex 2017: Multi-Sector Exercise Opportunity
• Battle Rhythm Manager
• Q&A
• Quiz for those seeking Continuing Education Units (CEUs)
Today’s Speakers

- **Sean McSpaden**, NISC Executive Director
- **John Heltzel**, Director of Resilience Planning, Electric Infrastructure Security (EIS) Council
- **Ray Neel**, G&H International Services
Continuing Education Units (CEUs)

- CEUs will be awarded to participants that watch the webinar and complete the quiz following the webinar
- 0.1 CEUs for this hour-long event
• Understand the objectives of the EARTH Ex Exercise.
• Understand the various lanes of the EARTH Ex exercise and how you can participate.
• Understand the role of the Battle Rhythm Manager during the exercise.
NISC Mission-Focused Job Aids Webinar Series

• In-depth discussion of tools, techniques, and standard operating procedures used for information sharing

• Webinar content applicable to multiple fields, including:
  • Homeland security,
  • Emergency management,
  • Public safety,
  • First responder, and
  • Healthcare preparedness.
NISC Mission-Focused Job Aids Webinar Series

• Information Sharing Tools Used During the New Orleans Flood Resilience Experiment – **April 26**
• Emergency Services Sector Presents Resources and Tools for Emergency First Responders – **June 1**
• **EARTH Ex 2017: Multi-Sector Exercise Opportunity** – **July 19**
• Cross-Border Information Sharing During CAUSE V – **September 14**
• Governance (Public Safety Continuum Series)
• NISC vUSA ArcGIS Online/Esri ArcGIS Enterprise
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• NISC Mutual Aid Resource Planning (MARP) Tool/Esri Ops Dashboard
• Technology/Data (Public Safety Continuum Series)
• Training/Exercises (Public Safety Continuum Series)
• NISC Battle Rhythm Manager
• Usage (Public Safety Continuum Series)
• Virtual Business Emergency Operations Center (VBEOC)
National Information Sharing Consortium

The NISC is a non-profit organization devoted to improving information sharing at all levels of government and for all homeland security, emergency management, first responder, healthcare, and public safety stakeholders.
### NISC Members Span Multiple Domains & Disciplines

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<thead>
<tr>
<th>Communications</th>
<th>Information Technology</th>
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<td>Critical Infrastructure</td>
<td>Law Enforcement</td>
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*Public Sector – Private Sector – Non-profits*
Member Benefits & Application

• Guidance and technical assistance
• Knowledge exchange and networking opportunities
• Access to the NISC Member Portal


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EARTH Ex 2017
NISC Webinar Objectives

• Exercise Overview
• Exercise Delivery
• Geospatial Lane
• Exercise Registration
• Expanded Areas of Interest
Why EARTH Ex 2017
The Black Sky Threats

A Black Sky Hazard is a catastrophic complex event that severely disrupts the normal functioning of critical infrastructures in multiple regions for a long duration.

These low frequency, but high impact events, pose a direct threat to civilization due to the impact of cascading infrastructure failures that will follow a prolonged power outage.
Why EARTH Ex 2017
The Black Sky Threats

Man-Made Hazards
• EMP/EMI – Electromagnetic Pulse/ Intentional Electromagnetic Interference
• Cyberattack/Cyber Terrorism
• Coordinated Physical Assault

Natural Hazards
• Seismic Event – High Magnitude Earthquake
• GMD – Geomagnetic Disturbance (Severe Space Weather)
• Hurricanes and Other Severe Weather Events
EARTH Ex Basics

• Critical Life-Line Cross Sector Exercise – **Wednesday, 23 August 2017**
• No cost to participate.
• Widely distributed exercise using new DHS exercise tools
• Four hour exercise over four advancing phases.
• Opportunity to review and refine policies and procedures for responding to a long duration power outage.
• Come as you are exercise for executive and senior operational managers. No pre-exercise work required.
• Provide valuable feedback to federal and state agencies to improve preparedness and operational support.
EARTH Ex Design

EARTH Ex 2017 is a decentralized, international, multi-sector, self assessed exercise focused on the impact of long-duration power outages.
EARTH Ex Primary Objective

Improve community resilience to long-duration power outage events through cross-sector exercises.
EARTH Ex Operational Sectors/Lanes

- Electric
- Water and Waste Water
- Oil and Natural Gas
- State Government – Emergency Management, National Guard, ESF 8/Mass Care
- Regulatory
- Private Sector
- Non-Governmental Organization (NGO) – Volunteers Active In Disasters
- First Responders/Local Emergency Management
- NISC – Geospatial Information Sharing and Situational Awareness
- Individual and Family Preparedness – Understanding Individual and Family Preparedness for a long duration power outage (Separate Registration Site)
Who should participate in EARTH Ex?

• **Sector Specific**
  • Decisions Makers
  • Planners
  • Resource Managers
  • Information Managers
  • Partner Agencies
  • Leaders in Training
  • Organizations wishes to better understand the threat and their own plans

• **Individuals and Families**
EARTH Ex 2017 Organizational Focus & Discussion Areas

- Internal Testing on Existing Plans, Policies, and Playbooks
- Reviewing Roles and Responsibilities
- Reviewing Restoration Priorities
- Examining Assessment Procedures
- Determining Situational Priorities
- Developing and Sharing Information
EARTH Ex Specialized Lanes (DC Only)

• Interagency Table Top exercise on federal contingencies, coordination requirements and maintaining continuity of government during long-duration power outages

• On site in DC, jointly facilitated, by invitation
EARTH Ex
Play Overview

- Self facilitated, Senior Executive Discussion Based Table top
- Register as an Organization and Self Identify for an exercise lane or lanes
- Log into the exercise site, supply credentials (from registration and select the First Phase)
- Consume and digest the information deliverables
- Review the Advancing Injects
- Set or appoint a timer (designed for a full 4 hours, can be expanded locally)
- Phases are designed to be completed in an hour, however if you choose to take more time – that is up to each participating site. You can always loop back.
- Discuss the scenario and advancing inject materials
- Develop short responses to the Phase Response questions and submit to the BRM. These responses will be used to help advance the EIS Council EPRO Sector Playbooks
- Advance to the next Phase.
- Complete the 3 dynamic phases and the final reflective phase providing feedback on sector specific areas of interest.
EARTH Ex Play Options

• Register and play as a single sector lane
• Bring multiple registered sectors together and execute separate exercise lanes during the discussion and feedback
• Extend the exercise into additional areas or developing leader training opportunities
• Conduct the EARTH Ex at subordinate locations in a regional context (register each location for maximum feedback and input)
• Register as a Sector and encourage team members and families to also register for the Individual and Family Preparedness Lane
EARTH Ex Individual and Family Preparedness Lane

- Focus is on improving community resilience through individual preparedness.
- Short personal exercise:
  - Black Sky Threat Overview
  - Long Duration Power Outage Preparedness Action Checklist
  - Short Multiple Choice Question Test (Adult and Child Version)
  - Certificate of Participation (electronic)
  - Partner provided support by SPIN Global
EARTH Ex 2017 Assumptions

• All of the information to drive the exercise discussion will be provided
• Organizations will be encouraged to apply their own internal policies and procedures to develop solutions and responses to the exercise problem
• Access to the Internet will be available
• Each organization will have at least 1 person to serve as a facilitator/recorder. EARTH Ex collects feedback at the end of each phase.
• Each organization is responsible for their own assessment
EARTH Ex 2017 Exercise Phases

• **Phase 1** – Day 3  Widespread Power Outage/No Solution

• **Phase 2** – Days 4-6  Widespread Power Outage/Critical Decisions, Assessments & Actions

• **Phase 3** – Day 15....  On-going Widespread Power Outage, Black Start, Communications, Cross Sector Coordination
EARTH Ex 2017
Phase 1-3 Event List

• Establishing/Framing Sector Inject
  First 15 Minutes
• 360 Degree Cross-Sector Environment View
  First 15 Minutes
• Sector Specific Advancing Injects and Questions
  First 15 Minutes
• Active Discussion and Planning
  30 Minutes
• Participant Structured Responses
  15 Minutes

Note: Locations may extend the discussion timeline as desired to complete the action at their discretion.
• What **Policies** or **External Support** are needed to effectively respond to a long duration power outage or a National Threat scenario (Local, State, Federal)?
• What areas need increased **Training** and **Coordination**?
• How can we improve cross sector **Information Sharing**?
• What **information** is most critical to your efforts that you don’t currently have?
• What are the key sector **Resilience Investments** are needed to be prepared for a long duration power outage (Black Sky)?
• **FAST Act** Feedback
• Power Outage Incident Annex (**POIA**) Feedback and Understanding
Electric Sub-Sector Objectives

**Phase 1 (Needs Assessment)**
- Impact Analysis
- Internal Coordination Activities
- Operational Challenges (Internal)

**What happened?**

**What resources are available?**

**What are the first steps to be taken?**

**Phase 2 (External Coordination & Assessment)**
- Critical Skills Identification
- Essential Task Execution
- Multi-directional Coordination (External)

**What’s essential?**

**Who has the authority?**

*Communications Impact, Solutions & Action*

**Phase 3 (Solution and Execution Coordination)**
- Modified Restoration Strategy
- Crisis Communications
- Coordination and Alignment

**Developing and Implementing Solutions, Communicating with Essential Partners (internal and external), Establishing priorities of effort**
Geospatial and Sharing Information Objectives

Phase 1 (Needs Assessment)
- Impact Analysis
- Developing Focused Situational Awareness
- Operational Challenges (Internal)

Phase 2 (External Coordination & Assessment)
- Building Information for Decision Making
- Essential Task Execution
- Communications and Coordination (External)

Phase 3 (Solution and Execution Coordination)
- Implementing Tools to Support Restoration
- Extending Information Datasets
- Meeting Organizational Challenges

What happened?
What resources are available?
What are the first steps to be taken?

What’s essential?
Who has the authority?
Communications Impact, Solutions & Action

Developing and Implementing Solutions, Communicating with Essential Partners (internal and external), Establishing priorities of effort
EARTH Ex Design Elements

• EARTH Ex is designed to be delivered virtually using electronic tools.

• The Exercise Delivery Mechanism – the Battle Rhythm Manager (BRM) will support multiple lanes of play and multiple phases of the exercise.

• Once you register and pick a exercise sector – you will be in the system for EARTH Ex.

• Back up distribution systems for exercise information will be in place.

• The EARTH Ex 2017 (BRM) will be available for play on the morning of August 23rd.

The National Information Sharing Consortium is a partner in EARTH Ex 2017 providing support for the BRM.
EARTH Ex Information Sharing and Lane Play
The Battle Rhythm Manager – Exercise Tool

Electric Sector
- Management
- Generation
- Transmission
- Distribution

Oil & Natural Gas/Fuels Sector
- Management
- Oil
- Natural Gas
- Distribution

Federal Coordination & Contingency Lanes
- Primary Federal Organizations

Regulatory
- Management
- Assessment
- Action-Response

Water Sector
- Management
- Water
- Waste Water

Federal Government
- DOE
- DHS
- FEMA

Non-Governmental Agencies
- Coordination
- Response

State Government
- Emergency Management
- National Guard
- Health

Corporate/Agency Incident Response Team
- Coordination
- Response

Private Sector
- Coordination
- Response

First Responders and Local EM
- Participant Driven Objectives
- 360 Degree Information
- Structured Phase Targets
EARTH Ex Operations – Using the BRM

• EARTH Ex BRM Logging In.
• Moving through the Exercise Phases.
• Providing Phase feedback and sharing your solutions.
• Moving the community forward – Phase 4 responses.

The National Information Sharing Consortium is a partner in EARTH Ex 2017 providing support for the BRM.
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Battle Rhythm Manager

An Exercise-Centric tool, designed to:

• Keep participants (and exercise leaders) on schedule, even in different time zones
• Show the same Inject information to everyone
• Allow exercise players to check off tasks as they are completed
• Provide a way for participants to give feedback, in real time
Quick Tour of the Battle Rhythm Grid

The National Information Sharing Consortium is a partner in EARTH Ex 2017 providing support for the BRM.
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## In-Stride Feedback from the Exercise

<table>
<thead>
<tr>
<th>EventID</th>
<th>MPUser</th>
<th>InstrideFeedback</th>
<th>Checklist00101</th>
<th>Checklist00102</th>
<th>Checklist00103</th>
</tr>
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<tbody>
<tr>
<td>13</td>
<td>NOLAUser1</td>
<td>actual critical information is neither the most prominent data field nor a standardized input. Much of the focus is placed on who is reporting, and the basis for those reports while the information of what is actually being reported is buried 10 entries down, and is open-ended &quot;comments&quot; which are subjective in nature and open to interpretation. It takes too long and is too non-standard to communicate the actual issue that needs communicating. For example, a road problem, affecting only 1 of two lanes, at a specific location, should be reported, but most of the fields don't allow for easy and standard inputting of &quot;passable&quot; &quot;impassible&quot; &quot;partially obstructed&quot; etc.</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>11</td>
<td>jhigginbotham</td>
<td>- going back and forth from Info to Play is difficult. Could they be on the same page?? - Drainage = continue to pump out water and conduct same steps as stated previously - Communication = Continue to make public advisory statements: 1&quot; first hour, 1/2&quot; every hour after - Don't drive through flooded areas (specifically Canal, Carrollton overpasses and Earhart &amp; Loyola intersection) - Emergency Management - plugged in with City EOC, potentially at EOC</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>14</td>
<td>nolauser7</td>
<td>In using ArcGIS tools, it would be useful to have map descriptions pop up when the cursor hovers over them in the USA tab. I would also like to suggest adding the functionality to bookmark views (i.e., bookmark maps, layer views, etc.)</td>
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EARTH Ex Schedule

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<th>Date</th>
<th>Day</th>
<th>Event</th>
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<tbody>
<tr>
<td>10 Aug</td>
<td>Thursday</td>
<td>EEX Facilitators Overview</td>
<td>Teleconference</td>
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<tr>
<td>17 Aug</td>
<td>Thursday</td>
<td>EEX Internal EEx Rehearsal</td>
<td>All Sector Coordinators</td>
</tr>
<tr>
<td>23 Aug</td>
<td>Wednesday</td>
<td>EEX EEx Target Date</td>
<td>All Staff and Sectors</td>
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Registered Participants will receive periodic e-mails on EEx as we close on the exercise.

Registration for EARTH Ex 2017 Currently Open: [http://eiscouncil.com/EarthEx](http://eiscouncil.com/EarthEx)
EARTH Ex Availability

- EARTH Ex 2017 will be available to all registered participants beginning on 23 August via the supplied links.
- Registered participants will receive a confirmation e-mail.
- When you register – you will select a participation lane.
- You can register and play a sector lane (group/organization) and register to participate in the Individual and Family Preparedness Lane (in fact, we hope you do!)
Essential Links to Participate in EARTH Ex2017

To register to participate in EARTH Ex, or for more information on the exercise, or the EIS Council, please visit:

http://eiscouncil.com/EarthEx
EARTH Ex E-Mail

Please use this e-mail for EARTH Ex Questions or Support:
EARTHEX@EISCouncil.org
Questions?

Use the question feature in GoToWebinar to submit questions.
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Quiz

• Following the webinar you will be prompted to complete a quiz.

• Complete the quiz to receive your continuing education units (CEUs) for this session.
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National Information Sharing Consortium Webinar