EIS Council Presents:
EARTH EX 2018-The Second Annual Emergency All-Sector Response Transnational Hazard Exercise

May 23, 2018 1-2 pm ET
Agenda

• Introduction
• Overview of the NISC
• EIS Council: EARTH EX 2018
• Q&A
• Quiz for those seeking Continuing Education Units (CEUs)
Today’s Speakers

• **Sean McSpaden**, NISC Executive Director

• **John Heltzel (Brigadier General-Retired)**, Director of Resilience Planning Electric Infrastructure Security (EIS) Council

• **Ray Neel**, Senior Technologist, G&H International Services, Inc.
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
Learning Objectives

1. Understand the goal of the EARTH EX 2018 Exercise.
2. Identify the different exercise lanes and phases.
3. Understand the role of the Battle Rhythm Manager in the exercise.

If you have questions during the webinar, please submit using the question feature in GoToWebinar.
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

- **May 23, 2018**: EARTH EX 2018: The second annual Emergency All-sector Response Transnational Hazard Exercise
- **June 21, 2018**: Rich Data: Increasing Situational Awareness for First Responders (Co-hosted by the NISC and RapidSOS)
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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

- Communications
- Critical Infrastructure
- Emergency Management
- EMS
- Fire
- GIS
- Homeland Security
- Information Technology
- Law Enforcement
- Military
- Private Industry
- Public Health
- & More!

Public Sector – Private Sector – Non-profits
Member Benefits & Application

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

Or click ‘Join’ at the top of any webpage on [www.nisconsortium.org](http://www.nisconsortium.org)
Emergency All-Sector Response to a Transnational Hazard Exercise

Webinar Presentation to the National Information Sharing Consortium

May 2018
Why EARTH EX?

In a world with an ever-increasing degree of interconnectedness and dependence on critical life-line infrastructures, like electricity, and given the growing risk and potentially devastating impact of a variety of threats, inclusive partnerships will be required in order to prepare and improve. We must plan, train and exercise. EARTH EX is this opportunity.
EARTH EX Concept

• EARTH EX 2018 is a come as you are opportunity for all critical lifeline sectors to review, develop and extend the policies and procedures for responding to a long duration power outage.

• EARTH EX 2018 is a widely distributed exercise event, using new electronic exercise tools, advancing over three phases allowing for an examination of the response, restoration and overall resilience actions all sectors will face during a long duration power outage.

• EARTH EX 2018 supports in-depth discussion on roles, responsibilities, essential decision making, and communications requirements.
EARTH EX 2018 Goal

Improve community resilience to long-duration power outages and Black Sky events through cross-sector planning, training and exercises.
EARTH EX 2018 Objectives – Phase 1

• Develop situational awareness priorities
• Determine information requirements
• Develop and review internal assessment requirements
• Review the need and availability of critical staffing requirements
EARTH EX 2018 Objectives – Phase 2

• Develop and review initial action concepts
• Identify critical infrastructure and key resources (CI/KR)
• Establish priorities for response, restoration and resourcing
• Develop critical external resource requirements
EARTH EX 2018 Objectives – Phase 3

• Discuss long-term restoration issues
• Outline next steps for building organizational resilience
• Highlight and emphasize resource issues
• Identify and prioritize resilience investment
EARTH EX 2018 Play

• Self facilitated, self assessed, discussion based, table top exercise
• Register to play on-line; receive exercise credentials
• Self identify for an exercise lane or lanes
• Develop situational awareness; discuss and respond to game play
• Provide responses to the phase questions
• Advance through 3 phases
• Two dynamic discussion phases and one reflective phase
• Phases 1 and 2 will take approximately 90 minutes each
• Phase 3 will take roughly 60 minutes
• Organizations can extend or contract the timeline for play
EARTH EX - The Bottom Line

• Critical Life Line Cross Sector Exercise – Wednesday, 22 August 2018*
• Opportunity to test and refine policies and procedures for responding to a long duration power outage
• Come as you are exercise for executive and operational managers
• No ramp up or pre-exercise work required
• Self Facilitated, Self Assessed and Self Evaluated
• No cost to participate
• Widely distributed international exercise using new DHS exercise tools
• Four hour exercise over three advancing phases
EARTH EX 2018– How to Play Options

• Organization
  • Centralized (EOC, Regional Operations Center)
  • Decentralized (Regions)

• Functional Groups
  • Operations
  • Resource Management
  • Others

• Leader and Section Chief Independent Play
• Individual and Family Preparedness Lane
EARTH EX 2018 Timeline

• NISC Overview Webinar 23 May
• Registration Open 1 June
• June Training Package Release 15 June
• Black Sky Introduction to EEX 18 & Facilitator Training Webinar 12 July
• July Training Package Release (HSEEP Materials) 13 July
• Black Sky Introduction to EEX 18 & Facilitator Training Webinar 9 August
## EARTH EX 2018 Exercise Lanes

<table>
<thead>
<tr>
<th>Lane</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Electric</td>
</tr>
<tr>
<td>2</td>
<td>Natural Gas</td>
</tr>
<tr>
<td>3</td>
<td>Oil</td>
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<td>4</td>
<td>Water</td>
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<td>5</td>
<td>Communications</td>
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<td>6</td>
<td>Radio Communications</td>
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<tr>
<td>7</td>
<td>Information Technology</td>
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<tr>
<td>8</td>
<td>Cyber Security</td>
</tr>
<tr>
<td>9</td>
<td>Utilities Cyber</td>
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<tr>
<td>10</td>
<td>Energy (DOE)</td>
</tr>
<tr>
<td>11</td>
<td>Infrastructure Protection (DHS)</td>
</tr>
<tr>
<td>12</td>
<td>Emergency Management (FEMA)</td>
</tr>
<tr>
<td>13</td>
<td>Environmental (EPA)</td>
</tr>
<tr>
<td>14</td>
<td>ESFLG (Federal Response Agencies)</td>
</tr>
<tr>
<td>15</td>
<td>Regulatory</td>
</tr>
<tr>
<td>16</td>
<td>Military (AC and NGB)</td>
</tr>
<tr>
<td>17</td>
<td>State Government Emergency Management + ESFs</td>
</tr>
<tr>
<td>18</td>
<td>National Guard</td>
</tr>
</tbody>
</table>
EARTH EX 2018 Exercise Lanes

19    State Government & Regulatory
20    Community Leaders
21    Local Emergency Management
22    Law Enforcement
23    Fire Departments
24    Volunteers in Support
25    Ecumenical Organizations
26    Private Sector
27    Private Sector - Transportation
28    Private Sector - Supply Chain
29    Private Sector - Food & Water
30    Financial Sector
31    Medical and Health Care Providers
32    Nursing and Other Long-Term/ Specialty Care Homes
EARTH EX 2018
The Exercise
The Environment

- What happened?
- What’s happening?
  - How bad?
- Were we impacted?
  - Multi-Region?
  - Worldwide?
- Who’s in charge?
  - Are we safe?
- What about my family?
  - Is it over?
- What do we do now?
EARTH EX Situational Awareness Utilities Hub

- How did this happen?
- How long will it go on?
- Restoration without communications
- Local, National & Regional Priorities
- Black start?
- Water infrastructure failures
- Long duration planning……..
EARTH EX Situational Awareness Government Hub

- Consequence management
- Contingency operations
- Government with electrify
- Government without communications
- Who’s in charge
- Lifeline restoration support
- Long duration planning
EARTH EX Situational Awareness Mass Care Hub

• People, people, people….
• How long and How
• Resource issues and prioritize
• Organization and activation
• Shelters, staffing and response
EARTH EX Situational Awareness Cyber Hub

• Defense, offense, secure connections, no internet?
  • What happened?
  • What's the plan?

• Restoration priorities, whose priorities?
• Alternate communications, will that work?
• What's next?
EARTH EX Situational Awareness Medical Hub

- Remain operational?
- Resupply?
- Communications?
- No Power? Fuel?
- No Business Systems (Cloud)
- Manpower?
- Security?
- Mission Surge?
- Food?
- Priorities?
- Coordination with Community Leaders?
• Business without power?
• Business without communications?
• Business without electronic commerce?

• Safe to go back on line?
• Part of the community response
• Staff coordination and customer response
EARTH EX 2018

Phase 1 – Day 1 - Distributed Cyber Event

• Developing situational awareness
• Potential system impact
• Preparatory actions
• Communications plans
• Cyber protection efforts

Course of Actions Considerations
EARTH EX 2018

Phase 2 - Day 3 - Power Outages and Widespread Cascading Impacts

- Power outage impacts
- Contingency operations
- Cross sector coordination
- Critical decisions, assessments & actions
- Cyber consequence management

Course of Actions Considerations
EARTH EX 2018

Phase 3 – Restoration and Coordination in a Black Sky Environment

• Determine long-term operational and planning issues for resolution
• Outline next steps for building organizational resilience
• Highlight and emphasize resource issues
• Identifying and prioritizing high payoff resilience investment
EARTH EX 2018 Exercise – The Narrative

• Developing Situational Awareness
• Mission Assignment
• Mission Update
• Course of Action Analysis
• Mission Response
• Mission Feedback
EARTH EX 2018 Play – Mission Assignment

• Phase and lane specific
• Establishes the sector-specific scenario for Discussion Period 1
• Set the boundaries for what should be examined
• Builds off the base scenario
• Provides focus and direction
• Clearly aligned with playbook operations and references
EARTH EX 2018 Play – Mission Update

• Phase Specific, Sets an Action Response Expectation
• Establishes the sector-specific scenario for Discussion Period 2
• Directs actions – immediate response issue
• Lead in for the Course of Actions analysis and discussion
EARTH EX 2018 Exercise Timeline Estimates

1. EEX 18 is a 4 hour exercise +/- *

2. Phase 1 and Phase 2 – 90 Minutes Each
   - Develop Situational Awareness – 10 Minutes
   - Mission - Discussion - 15 Minutes
   - Mission Update - Discussion - 15 Minutes
   - Cross Sector Update: New Information - Discussion - 5 Minutes
   - COA Analysis - Discussion - 15 Minutes
   - COA Selection - Discussion - 10 Minutes
   - Phase Response Question - 20 minutes

3. Phase 3 – 60 minutes
EARTH EX 2018 Assumptions

• All of the information to drive the exercise discussion will be provided
• Organizations will apply their own policies and procedures to develop solutions and responses to the exercise problem
• Access to the Internet is available
• Organization’s will select at least 1 person to serve as a facilitator/recorder – training for facilitators will be provided
• Each organization will be internally assessed
EARTH EX 2018 Design Elements

- EARTH EX is delivered using a web based tool.
- The exercise delivery mechanism is called Battle Rhythm Manager (BRM).
- BRM supports multiple lanes of play across multiple phases of the exercise.
- EARTH EX 2018 will be available for play on the morning of August 22nd.
- We encourage all participants to register and play the Individual and Families exercise. You can play both.
EARTH EX 2018 Special Focus Cyber Lanes

• Enterprise Cyber Team Engagement
• National Guard and Utilities Alignment for Support
• Utilities Cyber Lane – FAST Act Alignment
EARTH EX 2018 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 lane – you will be in the system for EARTH EX.
• Back up distribution systems for exercise information will be in place.
• The EARTH EX 2018 (BRM) will be available for play on the morning of August 22nd.

The National Information Sharing Consortium is a Partner in EARTH EX 2018 providing support for the BRM.
EARTH EX 2018 Information Sharing and Lane Play
The Battle Rhythm Manager – Exercise Tool

Electric Sector
- Management
- Generation
- Transmission
- Distribution

Regulatory
- Management
- Assessment
- Action-Response

Federal Government
- DOE
- DHS
- FEMA

Non-Governmental Agencies
- Coordination
- Response

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

State Government
- Emergency Management
- National Guard
- Health

Federal Coordination & Contingency Lanes
- Primary Federal Organizations

First Responders and Local EM
- Coordination
- Response

Water Sector
- Management
- Water
- Waste Water

Corporate/Agency Incident Response Team & Cyber Response Teams
- Coordination
- Response

Private Sector
- Coordination
- Response

- Participant Driven Objectives
- 360 Degree Information
- Structured Phase Targets
NISC Battle Rhythm Tool Background

- Created in 2016 for NISC Check Point Exercise
- Refined and expanded functionality in 2017
  - Multiple Lanes and Multiple Phase Support
- New capabilities developed for EEX 2018
  - Increased integration of multi-media injects
  - Improved Status Reporting
  - Improved Reporting
  - Streamlined Registration
EARTH EX 2018 Availability

• EARTH EX 2018 will be available to all registered participants beginning on 22 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 EX 2018

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

http://eiscouncil.com/EarthEx
E-Mail for Questions and Information

earthex@eiscouncil.org

Stay connected for additional information.
Q&A

Please submit questions using the question feature in GoToWebinar.
Member Benefits & Application

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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