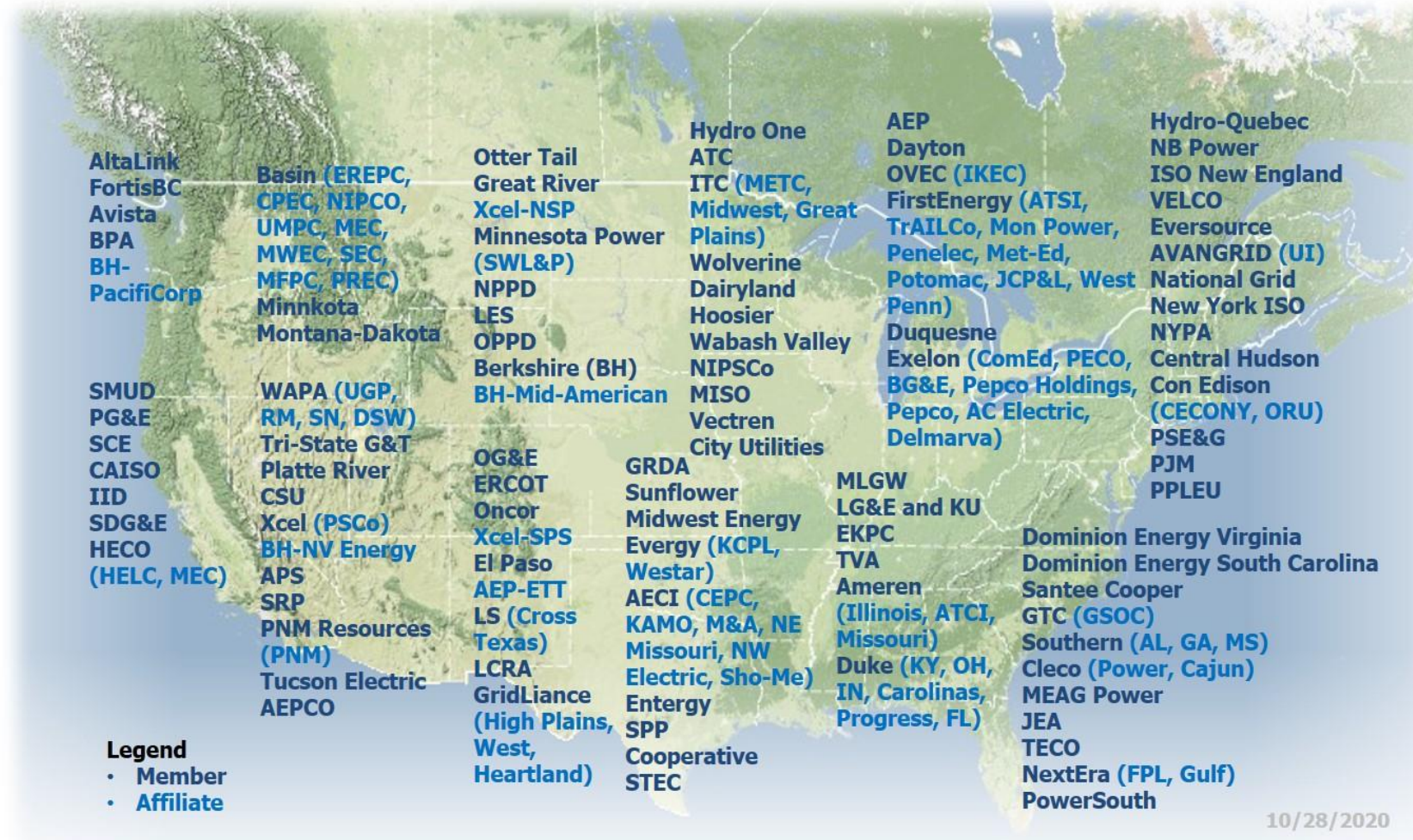# Suppliers:
Responding to Requests for Cyber Security Information

Brought to you by NATF and the Industry Organizations Team

December 1, 2020

NATF Members

95 members
**78** affiliates

Member Types
IOUs
Federal/Provincial
Cooperatives
State/Municipal
ISOs/RTOs

Coverage (US/Canada)
~**85%** miles 100 kV+
~**90%** net peak demand

AltaLink
FortisBC
Avista
BPA
BH-PacifiCorp

Basin (EREPC, CPEC, NIPCO, UMPC, MEC, MWEC, SEC, MFPC, PREC)
Minnkota
Montana-Dakota

Otter Tail
Great River
Xcel-NSP
Minnesota Power (SWL&P)
NPPD
LES
OPPD
Berkshire (BH)
BH-Mid-American

Hydro One
ATC
ITC (METC, Midwest, Great Plains)
Wolverine
Dairyland
Hoosier
Wabash Valley
NIPSCo
MISO
Vectren
City Utilities

AEP
Dayton
OVEC (IKEC)
FirstEnergy (ATSI, TrAILCo, Mon Power, Penelec, Met-Ed, Potomac, JCP&L, West Penn)
Duquesne
Exelon (ComEd, PECO, BG&E, Pepco Holdings, Pepco, AC Electric, Delmarva)

Hydro-Quebec
NB Power
ISO New England
VELCO
Eversource
AVANGRID (UI)
National Grid
New York ISO
NYPA
Central Hudson
Con Edison (CECONY, ORU)
PSE&G
PJM
PPLEU

SMUD
PG&E
SCE
CAISO
IID
SDG&E
HECO (HELC, MEC)

WAPA (UGP, RM, SN, DSW)
Tri-State G&T
Platte River
CSU
Xcel (PSCo)
BH-NV Energy
APS
SRP
PNM Resources (PNM)
Tucson Electric
AEPCO

OG&E
ERCOT
Oncor
Xcel-SPS
El Paso
AEP-ETT
LS (Cross Texas)
LCRA
GridLiance (High Plains, West, Heartland)

GRDA
Sunflower
Midwest Energy
Evergy (KCPL, Westar)
AECI (CEPC, KAMO, M&A, NE Missouri, NW Electric, Sho-Me)
Entergy
SPP
Cooperative
STEC

MLGW
LG&E and KU
EKPC
TVA
Ameren (Illinois, ATCI, Missouri)
Duke (KY, OH, IN, Carolinas, Progress, FL)

Dominion Energy Virginia
Dominion Energy South Carolina
Santee Cooper
GTC (GSOC)
Southern (AL, GA, MS)
Cleco (Power, Cajun)
MEAG Power
JEA
TECO
NextEra (FPL, Gulf)
PowerSouth

Legend
- Member
- **Affiliate**

*10/28/2020*

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Webex Audio Connection

- Select 📞 to connect to audio
  - Select the "Call me at…" option
  - Don't select "Use computer for audio" unless you have a headset and are familiar with using a VOIP connection
  - Don't select "Call in" unless "Call me at…" does not work

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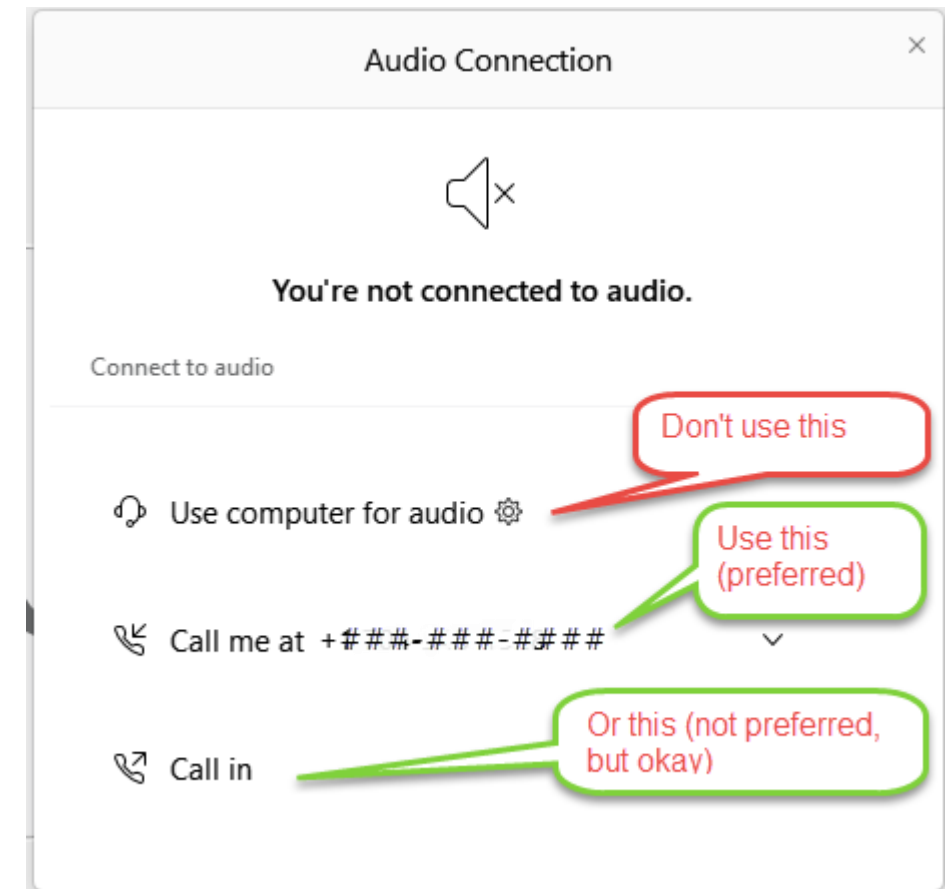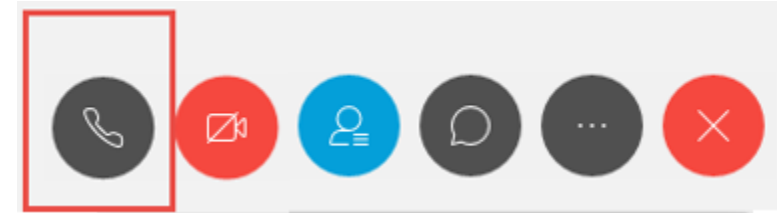
- If you connect to audio the wrong way
  - Select the "More Options" menu
  - Select "Audio connection"
  - Select "Disconnect" or select "Switch" next to "Call me at…"

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4
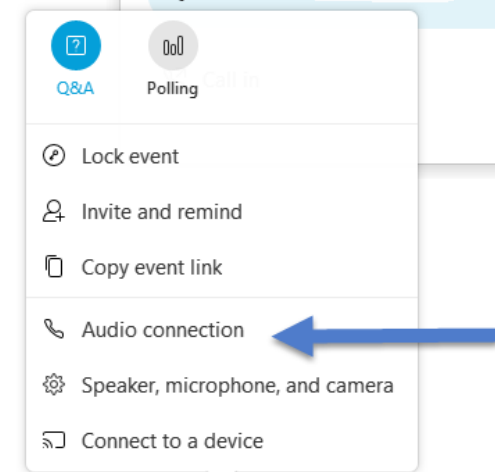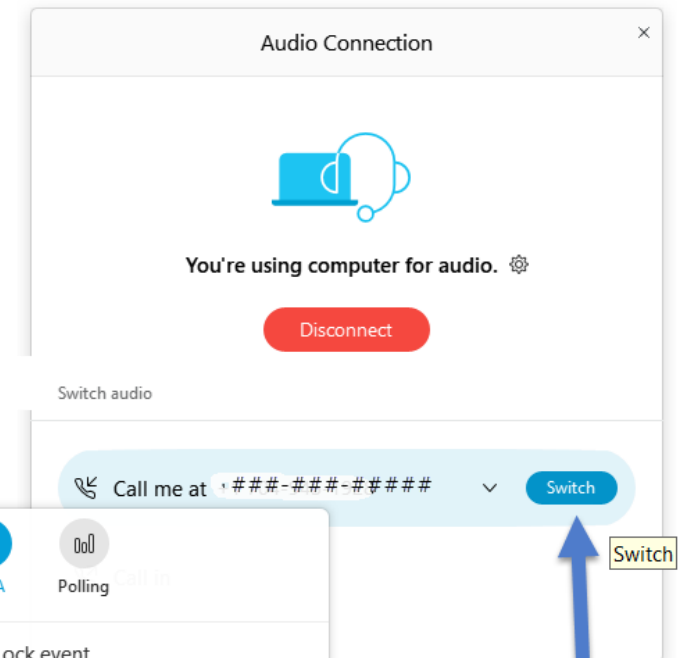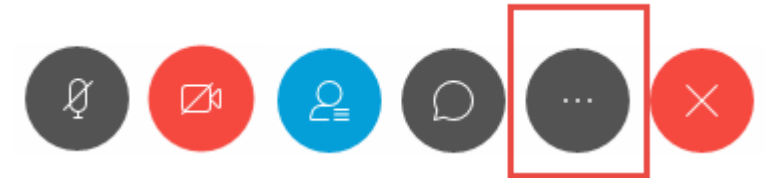
Raising Your Hand

If you joined using the desktop application (the Join Now button):

Join Event Now

To join this event, provide the following information.
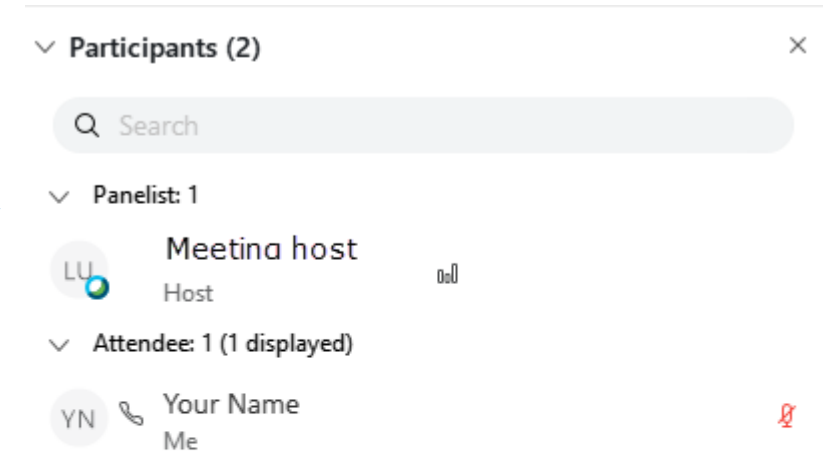
First name: Your

Last name: Name

Email address: YourName@email.com

Event password:

☑ Remember me on this computer
(Clear my information)

Join Now

Join by browser *NEW!*

Unmute   Share   •••   ✕   Participants   Chat   •••

Participant list

∨ Participants (2)

Search

∨ Panelist: 1

LU   Meeting host
Host

∨ Attendee: 1 (1 displayed)

YN   Your Name
Me

Raise and lower your hand

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Raising Your Hand

If you joined by browser:

Join Event Now

To join this event, provide the following information.

First name: Your

Last name: Name

Email address: YourName@email.com

Event password:

☑ Remember me on this computer
(Clear my information)

Join Now

Join by browser *NEW!*

Raise Hand

Polling

Raise Hand

Feedback

Audio connection

Switch to desktop app

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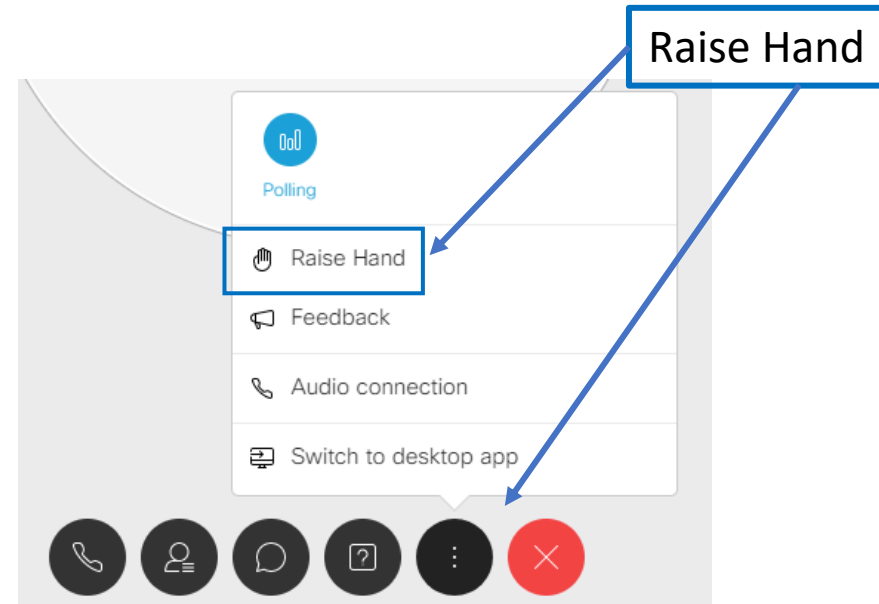
Audio for Discussion

- We will unmute lines for discussion
- During this time, you'll control your own mute
  - Select [🎤 Mute ⌄] to mute, [🎤 Unmute ⌄] to unmute or locally mute on your phone

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Agenda Overview

- Background and Benefits

- The Industry Organizations Team and Model

- Overview of the Criteria and Questionnaire

- How suppliers can use the Criteria and Questionnaire

- The Revision Process

- Polls

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Community *Confidentiality* *Candor* *Commitment*

Mikhail Falkovich
ConEd

Betsy Soehren-Jones
Exelon

Tony Eddleman
NPPD

Today's Presenters - Industry

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Background
Why suppliers are getting requests

Security Heightened by Regulatory Activity

Betsy Soehren-Jones (Exelon)

- Entities are more aware of the risks that could be introduced via supply chain

- These concerns are heightened by
  - New NERC supply chain regulations that became enforceable on October 1, 2020
  - The Executive Order 13920 issued on May 1, 2020

Collect Information

May 1 Executive Order

- [Executive Order (EO) 13920, "Securing the United States Bulk-Power System"](#)
  - Authorizes U.S. Secretary of Energy to work with the Cabinet and the energy industry to secure America's bulk-power system (BPS).
- Four Pillars
  1. *Prohibit foreign adversaries from providing products where there is a risk that relates to national security*
  2. *Establishes the ability for a pre-qualification for suppliers (criteria)*
  3. *Identifying things on the system that are at risk today*
  4. *Establishment of a Task Force*

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Government and Regulatory Actions

Betsy Soehren-Jones (Exelon)

Document	Date Released	Date Comments Due	Link
Executive Order 13920	1-May-20		https://www.whitehouse.gov/presidential-actions/executive-order-securing-united-states-bulk-power-system/
DOE Executive Order Information			https://www.energy.gov/oe/bulkpowersystemexecutiveorder
FERC White Paper - Cyber Security Incentives	18-Jun-20	17-Aug-20	https://www.ferc.gov/sites/default/files/2020-06/notice-cybersecurity.pdf
FERC NOI - CIP Enhancements	24-Jun-20	24-Aug-20	https://www.federalregister.gov/documents/2020/06/24/2020-13618/potential-enhancements-to-the-critical-infrastructure-protection-reliability-standards
DOE RFI - BPS Executive Order	8-Jul-20	24-Aug-20	https://www.federalregister.gov/documents/2020/07/08/2020-14668/securing-the-united-states-bulk-power-system
NERC Alert - Supply Chain Risk	8-Jul-20	21-Aug-20	https://portal.natf.net/document-viewer?id={7b2edb47-a3f2-6307-be03-ff00005e4fde}
FERC NOI - Equipment and Services	17-Sep-20	23-Nov-20	https://www.federalregister.gov/documents/2020/09/23/2020-20987/equipment-and-services-produced-or-provided-by-certain-entities-identified-as-risks-to-national

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Coming Together to Address Concerns Benefits Suppliers

Betsy Soehren-Jones (Exelon)

Inclusivity

- The Model is based on inclusivity of all suppliers
- Designed to help you and your customers identify risks
- You can work with your customers to mitigate those risks

Efficiency and Effectiveness

- When your customers are asking the same questions, you can be prepared with
  - Responses
  - Verification for your responses
- Making your customers satisfied and confident

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NATF and the Industry Organizations Team

Formed Fall 2019

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Industry Organization Team Members

Organizations, Forums and Working Groups

- AGA
- CEA
- EEI
- LPPC
- APPA
- TAPS
- NAGF
- NAESB
- ConEd Working Group
- NERC CCC/RSTC/SCWG
- NRECA

Suppliers

- Hitachi ABB Power Grids
- GE Grid Software Solutions
- OSI
- Siemens Industry, Inc.
- Schneider Electric
- Schweitzer Engineering

Third-Party Assessors

- Ernst & Young
- KPMG LLP
- PWC
- Deloitte

Organizations providing support products or services

- EPRI
- Fortress/A2V
- KY3P
- UL

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Objectives

Security
- – Identifying and addressing cyber security risks introduced via supply chain

Industry Convergence
- – Achieve industry convergence on the approach (Model) to facilitate addressing the following objectives

Efficiency and Effectiveness
- – Convergence on common approaches to achieve reasonable assurance of suppliers' security practices

Compliance
- – Implementation guidance to meet supply chain related CIP standards (CIP-013-1; CIP-005-6 R2.4; CIP-010-3 R1.6)

Supplier Assessment Model Process Overview

Collect Information

Evaluate information/address risks

Conduct risk assessment

Make purchase decision

Implement controls and monitor risks

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Possible Assessment Process with EO Criteria

Tony Eddleman (NPPD)

Criteria for foreign Adversaries

Collect Information

Evaluate information/address risks

Conduct risk assessment

Make purchase decision

Implement controls and monitor risks

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Customers Collecting Information

Collect it from Suppliers themselves

– NATF Cyber Security Criteria for Suppliers

– Energy Sector Supply Chain Questionnaire

– Supplement with

- Historical knowledge
- Open-source research

Use a solution-provider service

Also need to verify or obtain assurance of accuracy

Collect Information

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Methods Customers May Use to Obtain Assurance of Accuracy

Third-party Assessments

- *Obtain a qualified assessors' third-party assessment, certification and/or independent audit that addresses NATF Criteria and Questionnaire*

Obtain a validation/verification from a solution provider

- *Solution-provider risk assessments*
- *Shared assessments*

Conduct their own validation/verification

- *Obtain evidence from supplier to conduct your own validation/verification*

Collect Information

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Available Today

NATF Criteria
- 60 Criteria for suppliers' supply chain cyber security practices
- 24 Organization Information considerations

Energy Sector Supply Chain Risk Questionnaire
- 223 cyber security questions
- 20 general information questions

Supplier Assessment Model
- Model for assessing suppliers' cyber security practices

EEI Procurement Language
- Sample contract language to mitigate risk and provide assurances of supplier performance

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NATF-hosted Industry Organizations Web Page

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Overview of the
NATF Criteria and Questionnaire

What you can expect to see

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The NATF Criteria

Available on the NATF Public Website:

https://www.natf.net/industry-initiatives/supply-chain-industry-coordination

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Criteria for Evaluations: The NATF Criteria

Tony Eddleman
(NPPD)

What is the criteria or security framework?

- Posted on the NATF Public Website
- 60 criteria for supplier supply chain cyber security practices within 6 Risk Areas:
  - Asset Control and Mgmt
  - Asset, Change and Configuration Mgmt
  - Governance
  - Incident Response
  - Information Protection
  - Vulnerability Mgmt
- 24 organizational information considerations
- Maps to existing frameworks

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NATF Criteria Spreadsheet: Criteria

Criteria Identification Number	Risk Area	NATF Cyber Security Supply Chain Criteria for Suppliers Version 1 (NATF Board Approved)	Required by NERC Reliability Standards?		NIST							CIS Controls v7.1	IEC 62443	ISO 27001	SOC2	UL Supplier Cyber Trust Level
			Good security practices; exceeds NERC CIP Standards' requirements	CIP-013 requirement or supports other standards	Governance and all criteria NIST SP 800-161, 800-53	Access NIST SP 1800-2	Asset Chg Config - NIST SP 1800-5	Info Protection - NIST SP 800-171	Incident Response - NIST SP 800-184, 800-150, 800-61	Vulnerability Mgmt - NIST SP 800-64, 800-160, 800-82, 800-115, 800-125	Cybersecurity Framework Version 1.1			List other versions of ISO 27001.xxxx, 2700X if applicable	SOC FOR SUPPLY CHAIN SOC FOR CYBER SECURITY	
27	Incident Response	Supplier cyber security incident response plan contains clear roles and responsibilities which includes coordination of responses to their customer(s)	x		PR.IP-9 Rev 4 IR-1 IR-2 IR-8				61: 2.3.1, 2.6, 3.2.7 150: 3.4		RS.CO-1	CSC 19: Incident Response and Management	2.4 SP.08.01 2.1 4.3.2.6	A.16.1.1	CC7.4	Trust Category 5 Trust Category 9
28	Incident Response	Supplier's cyber security incident response plan contains requirements to notify entities that purchased impacted products or services within 24 hours of initiation of the supplier's plan		R1.2.1, R1.2.2	PR.IP-9 Rev 4 IR-8				61: 3.2.7 150: 3.3, 3.4, 3.5 184: 2.4	160: 2.3.2, 3.3.QA-5	PR.IP-9	CSC 19: Incident Response and Management	2.4 SP.08.01 2.1 4.3.4.5.3 2.1 4.3.4.5.5 (no 2 hours mention) 2.4 SP.08.03 2.1 4.3.4.5.3	7.4 A.16.1.1 A.16.1.2 A.16.1.5	CC2.3 CC7.4 CC7.5	Trust Category 5 Trust Category 9
29	Incident Response	Supplier's cyber security incident response plan contains steps to identify, contain, eradicate, recover	x	R1.2.2					61: 3.2.2, 3.2.3, 3.3.4 150: 4.2, 3.3.4 184: 2.3.3, 2.3.4		PR.IP-9	CSC 19: Incident Response and Management	2.4 SP.08.01 2.1 4.3.4.5.6 2.1 4.3.4.5.7 2.1 4.3.4.5.10 2.1 4.3.4.3.8	A.16.1.1 A.16.1.4 A.16.1.5	CC3.2 CC7.2 CC7.3 CC7.4	Trust Category 5 Trust Category 9
30	Incident Response	Supplier cyber security incident response plan includes steps and requirement to perform an after-action review, i.e. lessons learned	x		PR.IP-9 Rev 4 IR-4 IR-10				61: 3.3.4, 3.4.1 184: 3.2		RS.MI-1	CSC 19: Incident Response and Management	2-1 4.3.4.5.1 2-1 4.3.4.5.8 2-4 SP.08.01 BR	A.16.1.1 A.16.1.5 A.16.1.6 A.16.1.7	CC7.4 CC7.5	Trust Category 5 Trust Category 9
31	Incident Response	Supplier's cybersecurity incident response plan is periodically assessed Provide date of last assessment	x							115: 6.4.1, 6.5			Comes with the certification	A.16.1.1 A.18.2.1	CC3.1 CC3.2 CC4.1 CC7.4 CC9.2	Trust Category 5 Trust Category 9
		Supplier has taken appropriate action in response to assessment(s) of											Comes with	A.18.2.1	CC2.3	Trust Category 5

NATF Criteria Spreadsheet: Organizational Information

Criteria Identification Number	Risk Area	Cyber Security Initial Information	Notes	Required by NERC Reliability Standards?			Governance and all criteria NIST SP 800-161, 800-53	Access NIST SP 1800-2	Asset Chg Config – NIST SP 1800-5
				Good security practices; exceeds NERC CIP Standards' requirem...	CIP-013 requirement or supports other standards				
OI.14	Organizational Information	Provide number of years supplier has been in business							
OI.15	Organizational Information	Provide any countries other than the United States or Canada in which supplier operates (has an office, sells product or conducts any business) (indicate if none)							
OI.16	Organizational Information	Provide any countries other than the United States or Canada in which supplier's product (i.e. hardware, software, firmware or components) is manufactured or developed (indicate if none)							
OI.17	Organizational Information	Provide any countries other than the United States or Canada in which supplier's product (i.e. hardware, software, firmware or components) is assembled (indicate if none)							
OI.18	Organizational Information	Provide a summary for any pending or resolved product-related litigation in the last ten (10) years							
OI.19	Organizational Information	Provide any bonding company requests to intervene or make payments on supplier's behalf for any product manufacturing /development in the last ten (10) years							

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Mikhail Falkovich (ConEd)

The Energy Sector
Supply Chain Risk Questionnaire
"The Questionnaire"

Available on the NATF Public Website:

https://www.natf.net/industry-initiatives/supply-chain-industry-coordination

Questionnaire Mapping

Mikhail Falkovich (ConEd)

- To the NATF Criteria
  - All questions provide support information for the NATF Criteria; the key supporting questions are identified

- To existing frameworks/ standards

Energy Sector Supply Chain Risk Questionnaire - Unformatted		Supplier Corporate Systems	Supplier Product	Product Development	Additional Information	Guidance	NATF Criteria	Primary or Supporting for NATF Criteria
IAM-30	Do you have process(es) and procedure(s) documented, and currently followed, that require a review and update of the access-list(s) for privileged accounts?							
Cybersecurity Program Management								
CSPM-01	Do you have a business continuity plan (BCP) to support ongoing operations of your systems and scope of equipment and/or services provided to the entity?						21	Primary (21) Supports (44)
CSPM-02	Are all components of the BCP reviewed at least annually and updated as needed to reflect change?							Supports (21)
CSPM-03	Has your BCP been tested in the last year?							
CSPM-04	Does your organization have a data privacy policy that applies to your computing systems?							Supports (38)
CSPM-05	Have overall system and/or application architecture diagrams, including a full description of the data communications architecture, been developed and documented for the product(s) and/or service(s) being purchased?							Supports (56)
CSPM-06	Do you have a media handling process (that is documented and currently implemented), including end-of-life, repurposing, and data sanitization procedures?						40	Primary (40) Supports (2)
CSPM-07	Does your information protection program include secure deletion (e.g., degaussing/cryptographic wiping) or destruction of sensitive data, including archived or backed-up data?						46	Primary (46)
CSPM-08	Do you have third-party assessment(s) and/or certification(s) you have conducted to assess your cybersecurity practices? If yes, please describe the assessment or certification, date last completed, and frequency of re-assessment in the Additional Information column.					Provide the findings reports from third-party verifications conducted for cyber security frameworks (provide the two most recent reports for each cyber security framework).	24	Primary (24)
CSPM-09	Do you establish and maintain a security program for the your environment, including implemented processes to approve software, patches, and firmware prior to installation, as well as to verify the integrity and authenticity of the software, patches and firmware relevant to any technologies or equipment used in the development, manufacturing, testing, assembly, and distribution of the product(s) or service(s)?						54	Primary (54)

Energy Sector Supply Chain Risk Questionnaire - Unformatted — Version 1.0 — Published 5/8/2020

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Questionnaire Overview

Mikhail Falkovich (ConEd)

- Posted on the NATF Public Website
- Formatted and Unformatted versions
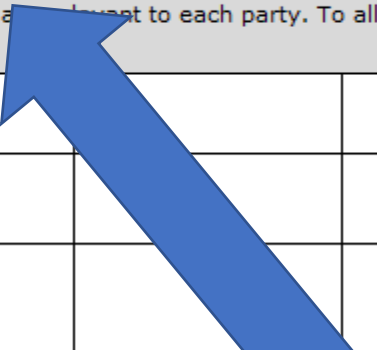- 223 Questions plus 20 General Information questions
- Twelve categories:

Company Overview	Identity & Access Management
Change & Configuration Management	Mobile Devices & Applications
Cybersecurity Program Management	Risk Management
Cybersecurity Tools & Architecture	Supply Chain & External Dependencies Management
Data Protection	Vulnerability Management
Event & Incident Response	Workforce Management

Questions for three areas

- Supplier Corporate Systems

- Supplier Product

- Supplier Development Systems

Completing the Questionnaire

Mikhail Falkovich (ConEd)

- Complete questions for Supplier Corporate Systems (yes/no/free form)

- Determine whether responses to Corporate Systems applies to Product
  - If yes, indicate yes, no or "same"
  - If not, respond to Product questions

- Determine whether responses to either Corporate Systems or Product applies to the Product Development system
  - If yes, indicate yes, no or "same as CS, or same as P" for free-form questions
  - If not, respond to Product Development System questions

	Supplier Corporate Systems	Supplier Product	Product Development Systems	
res				
p,				

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Use of the NATF Criteria and Questionnaire

Supplier's Use

Betsy Soehren-Jones (Exelon)

- *Have responses prepared for the NATF Criteria and Questionnaire*

- *Determine what verification you will provide*

    - A third-party verification

    - Evidence to support responses

    - Suggest the use of a solution provider

- *If you don't have responses prepared*

    - Ask if the customer would start with responses to the NATF Criteria

    - See what are the most critical responses customer needs

    - Ask if the customer is using a gate system, so you could provide some responses now and some at a later point in time

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Collect Information

Customers' needs may vary

- Customers may not need responses to all the questions; it depends upon how each company is conducting risk assessments

- We are working with companies to encourage them to tell you:

  - **_All_** – if they need responses to all criteria and/or questions

  - **_All, but in stages_** – they will need responses to all the criteria and questions, but they will be requesting them in stages (i.e., they may be using a "gate" system)

  - **_Some_** - If they don't need responses to all, they should add a column for indicating the criteria and/or questions they want responses to, or use the formatted questionnaire filters
    - This will help you recognize that they are using the Criteria and the Questionnaire, so you can use your developed responses
    - They may ask, or you can determine, whether it is more efficient to just provide all the responses

  - **_Additional or modified_** - If they want additional or modified information, those criteria or questions should be provided in an addendum. We are asking entities **_not to modify the Criteria or questions in the Questionnaire_**

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Collect Information

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The Revision Process for the NATF Criteria and Questionnaire

Industry Convergence

- Aligning industry on the information
  - that is being asked of suppliers and
  - is used when conducting risk assessments

- Suppliers can participate in the review process

- **Provide feedback to:**
  - supplychain@natf.net

Collect Information

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The Revision Process

- **Approved by the NATF Board**

- **Industry-wide process; NATF resources to maintain**

The Revision Process

- **Is posted on the NATF public website/Industry Coordination page**
https://www.natf.net/industry-initiatives/supply-chain-industry-coordination

The Revision Process

The Criteria and Questionnaire will be updated annually

- January/February – Review team reviews inputs

- March – A redlined version is posted for 30 days for industry comments

- April/May - Review team reviews and addresses comments

- May

  - Revised Criteria and Questionnaire are posted on the NATF public Industry Coordination webpage

  - The Review Team provides communication to industry

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It may not be possible to develop a set of Criteria or a single Questionnaire that addresses all information needs

So addendums may be needed, but let's get 90% of the way there!

NATF Contact Information

supplychain@natf.net

kkeels@natf.net

vagnew@natf.net

Was today helpful?

Was this introduction to the NATF Criteria and Questionnaire helpful?

A. Yes

B. No

C. I need more information

Open Distribution

Would you be interested in another webinar to interact with the <u>suppliers</u> that have been involved?

Valerie Agnew (NATF)

Would you be interested in a future webinar to hear from and interact with the suppliers on the Industry Organizations' Team?

A. Yes

B. No

C. Maybe

Would you be interested in another webinar to interact with the solution providers that have been involved?

Valerie Agnew (NATF)

Would you be interested in a future webinar to hear from and interact with the solution providers on the Industry Organizations' Team?

A. Yes

B. No

C. Maybe

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This webinar will be provided again

January 12, 2021
1:00-2:00pm Eastern Time

Send questions you'd like to have addressed

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Thank you for attending!

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