Meeting Agenda

Security Advisory Council (SAC)

Tuesday, May 14, 2024
9:00 a.m. – 3:00 p.m. Central

MRO Corporate Offices, King Conference Center
St. Paul, MN & Webex

MIDWEST RELIABILITY ORGANIZATION

Public

VIDEO AND AUDIO RECORDING

Please note that Midwest Reliability Organization (MRO) may make a video and/or an audio recording of this organizational group meeting for the purposes of making this information available to board members, members, stakeholders and the general public who are unable to attend the meeting in person.

By attending this meeting, I grant MRO:

1. Permission to video and/or audio record the meeting including me; and
2. The right to edit, use, and publish the video and/or audio recording.
3. I understand that neither I nor my employer has any right to be compensated in connection with the video and/or audio recording or the granting of this consent.

CLARITY
Outreach & Engagement

ASSURANCE
Oversight & Risk Management

RESULTS
Reliability Performance

Public

MEETING AGENDA

Agenda Item
1 **Call to Order and Determination of Quorum** *Ian Anderson, SAC Chair*
2 **Standards of Conduct and Anti-trust Guidelines** *Steen Fjalstad, MRO Director of Security*
3 **Safety Briefing** *Shawn Keller, MRO Outreach Coordinator*
4 **Chair Remarks** *Ian Anderson, SAC Chair*
5 **MRO Staff Liaison Remarks** *Steen Fjalstad, MRO Director of Security*
Break – 10:00 a.m. – 10:15 a.m.
6 **Security Discussion** *Lee Felter, MRO Principal Security Engineer*
7 **MRO SACTF Update** *Daniel Graham, Security Advisory Council Threat Forum Representative*
8 **MRO Representatives on NERC Subgroups Written Reports** *Ian Anderson, SAC Chair*
Lunch – 11:30 a.m. – 12:30 p.m. NOTE: Meeting will go into closed session after lunch.
9 **SAC 2024 Work Plan Review and Breakouts** *Ian Anderson, SAC Chair*
10 **Q3 2024 SAC Meeting Suggestions** *Ian Anderson, SAC Chair*
11 **Action Item Review** *Margaret Eastman, MRO Security Administrator*
12 **Other Business and Adjourn** *Ian Anderson, SAC Chair*

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Call to Order and Introductions
Ian Anderson, SAC Chair

Name	Role	Company	Term
OPEN	Member		12/31/2026
OPEN	Member		12/31/2026
OPEN	Member		12/31/2024
Clayton Whitacre	Member	Great River Energy	12/31/2025
Daniel Graham	Member	Basin Electric Power Cooperative	12/31/2024
David Johnson	Member	OGE Energy Corp.	12/31/2026
Douglas Peterchuck	Member	Omaha Public Power District	12/31/2024
Ian Anderson	Chair	OGE Energy Corp.	12/31/2025
Justin Haar	Member	Minnkota Power Cooperative	12/31/2026
Kelly Crist	Member	Engie North America	12/31/2026
Norma Browne	Member	Ameren	12/31/2024
Patrick Glunz	Member	Nebraska Public Power District	12/31/2025
Peter Grandgeorge	Member	MidAmerican Energy Company	12/31/2025
Rocky Tolentino	Member	Southwest Power Pool	12/31/2025
Tim Anderson	Member	Dairyland Power Cooperative	12/31/2024

Standards of Conduct and Anti-Trust Guidelines
Steen Fjalstad, MRO Director of Security

Standards of Conduct Reminder:

Standards of Conduct prohibit MRO staff, committee, subcommittee, and task force members from sharing non-public transmission sensitive information with anyone who is either an affiliate merchant or could be a conduit of information to an affiliate merchant.

Anti-trust Reminder:

Participants in Midwest Reliability Organization meeting activities must refrain from the following when acting in their capacity as participants in Midwest Reliability Organization activities (i.e. meetings, conference calls, and informal discussions):

- Discussions involving pricing information; and
- Discussions of a participants marketing strategies; and
- Discussions regarding how customers and geographical areas are to be divided among competitors; and
- Discussions concerning the exclusion of competitors from markets; and
- Discussions concerning boycotting or group refusals to deal with competitors, vendors, or suppliers.

Robert's Rules of Order
Ian Anderson, SAC Chair

Parliamentary Procedures. Based on Robert's Rules of Order, Newly Revised, Tenth Edition

Establishing a Quorum. In order to make efficient use of time at MRO organizational group meetings, once a quorum is established, the meeting will continue, however, no votes will be taken unless a quorum is present at the time any vote is taken.

Motions. Unless noted otherwise, all procedures require a "second" to enable discussion.

When you want to…	Procedure	Debatable	Comments
Raise an issue for discussion	Move	Yes	The main action that begins a debate.
Revise a Motion currently under discussion	Amend	Yes	Takes precedence over discussion of main motion. Motions to amend an amendment are allowed, but not any further. The amendment must be germane to the main motion, and cannot reverse the intent of the main motion.
Reconsider a Motion already resolved	Reconsider	Yes	Allowed only by member who voted on the prevailing side of the original motion. Second by anyone.
End debate	Call for the Question *or* End Debate	No	If the Chair senses that the committee is ready to vote, he may say "if there are no objections, we will now vote on the Motion." Otherwise, this motion is not debatable and subject to majority approval.
Record each member's vote on a Motion	Request a Roll Call Vote	No	Takes precedence over main motion. No debate allowed, but the members must approve by majority.
Postpone discussion until later in the meeting	Lay on the Table	Yes	Takes precedence over main motion. Used only to postpone discussion until later in the meeting.
Postpone discussion until a future date	Postpone until	Yes	Takes precedence over main motion. Debatable only regarding the date (and time) at which to bring the Motion back for further discussion.

Remove the motion for any further consideration	Postpone indefinitely	Yes	Takes precedence over main motion. Debate can extend to the discussion of the main motion. If approved, it effectively "kills" the motion. Useful for disposing of a badly chosen motion that cannot be adopted or rejected without undesirable consequences.
Request a review of procedure	Point of order	No	Second not required. The Chair or secretary shall review the parliamentary procedure used during the discussion of the Motion.

Notes on Motions

Seconds. A Motion must have a second to ensure that at least two members wish to discuss the issue. The "seconder" is not required to be recorded in the minutes. Neither are motions that do not receive a second.

Announcement by the Chair. The chair should announce the Motion before debate begins. This ensures that the wording is understood by the membership. Once the Motion is announced and seconded, the Committee "owns" the motion, and must deal with it according to parliamentary procedure.

Voting

Voting Method	When Used	How Recorded in Minutes
Vote by Voice	The standard practice.	The minutes show Approved or Not Approved (or Failed).
Vote by Show of Hands (tally)	To record the number of votes on each side when an issue has engendered substantial debate or appears to be divisive. Also used when a Voice Vote is inconclusive. (The Chair should ask for a Vote by Show of Hands when requested by a member).	The minutes show both vote totals, and then Approved or Not Approved (or Failed).
Vote by Roll Call	To record each member's vote. Each member is called upon by the Secretary, and the member indicates either "Yes," "No," or "Present" if abstaining.	The minutes will include the list of members, how each voted or abstained, and the vote totals. Those members for which a "Yes," "No," or "Present" is not shown are considered absent for the vote.

Notes on Voting.

Abstentions. When a member abstains, he/she is not voting on the Motion, and his/her abstention is not counted in determining the results of the vote. The Chair should not ask for a tally of those who abstained.

Determining the results. A simple majority of the votes cast is required to approve an organizational group recommendations or decision.

"Unanimous Approval." Can only be determined by a Roll Call vote because the other methods do not determine whether every member attending the meeting was actually present when the vote was taken, or whether there were abstentions.

Electronic Votes – For an e-mail vote to pass, the requirement is a simple majority of the votes cast during the time-period of the vote as established by the Committee Chair.

Majorities. Per Robert's Rules, as well as MRO Policy and Procedure 3, a simple majority (one more than half) is required to pass motions.

Safety Briefing
Shawn Keller, MRO Outreach Coordinator

Action
Information

Report
Shawn Keller, MRO Outreach Coordinator, will lead this agenda item.

Chair's Remarks
Ian Anderson, SAC Chair

Action
Information

Report
Chair Anderson will lead this discussion during the meeting.

MRO SAC Staff Liaison Remarks
Steen Fjalstad, MRO Director of Security

Action
Information

Report
Steen Fjalstad will provide an oral report during the meeting.

  a. *MRO SecCon*
  b. *Roles, Initiative, and Expectations*
  c. *Focus Areas*
  d. *GridSecCon*

MRO Security Advisory Council Threat Forum (SACTF) Update
Daniel Graham, SACTF Member

Action
Information

Report
SACTF Member Daniel Graham will provide an update on the SACTF Threat Call.

  a. *MRO SACTF Threat Call and Annual Statistics*
  b. *MRO SACTF Threat Call Feedback*
  c. *MRO SACTF Open Source Information Sharing Document*
  d. *MRO SACTF Special VoltTyphoon Threat Calls*

Threat Call Statistics

Date	Approved Registrants	Duration	Attendees	Unique Companies
February 7, 2024	216	29	90	40
February 14, 2024	219	35	79	40
February 28, 2024	228	35	80	38
March 6, 2024	242	26	83	34
March 13, 2024	244	35	85	40
March 20, 2024	244	28	79	40
March 27, 2024	244	30	78	39
April 3, 2024	243	34	77	40
April 10, 2024	243	40	79	39
April 17, 2024	243	30	83	36
April 24, 2024	242	40	75	39
Averages	**237**	**33 Minutes**	**81**	**39**

Threat Call Statistics
February 2024 - April 2024 Results

Annual Threat Call Statistics
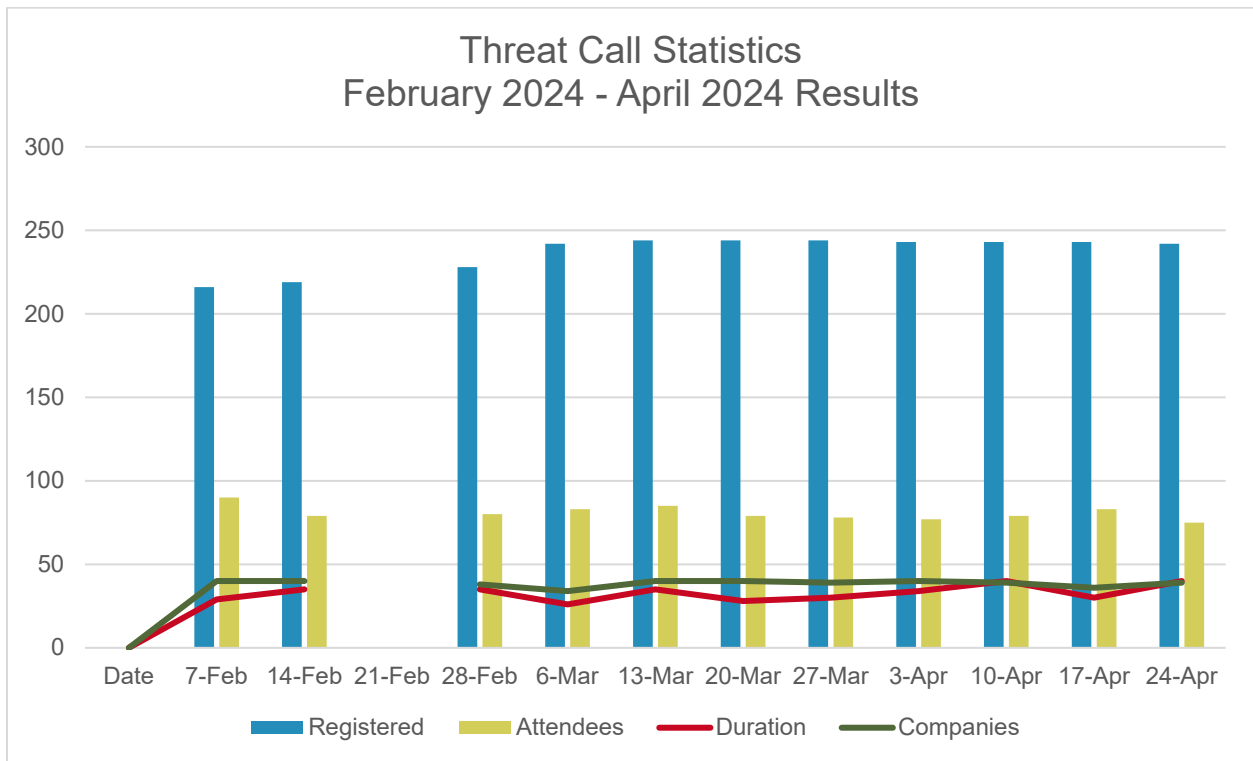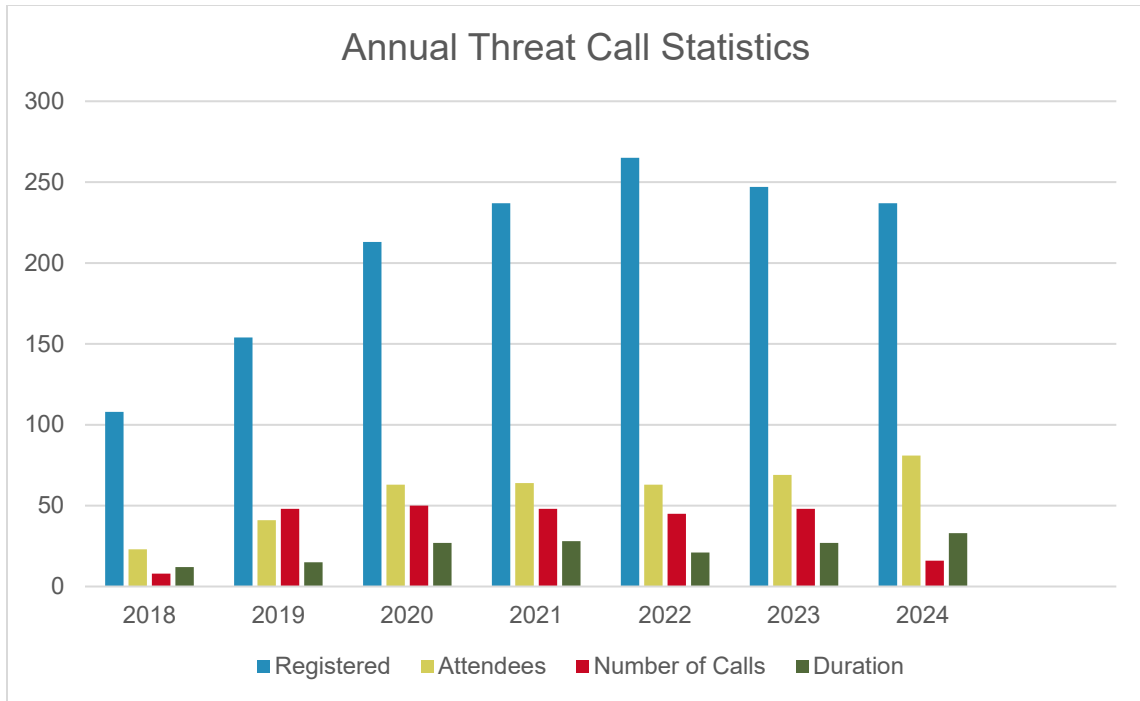
Annual Threat Call Statistics

Year	Average Registrants	Average Attendees	Average Duration	Number of Calls
2018	108	23	12 Minutes	8 Calls
2019	154	41	15 Minutes	48 Calls
2020	213	63	27 Minutes	50 Calls
2021	237	64	28 Minutes	48 Calls
2022	265	63	21 Minutes	45 Calls
2023	247	69	27 Minutes	48 Calls
2024	237	81	33 Minutes	16 Calls

Threat Call Feedback

Q1 During the last 3-6 months, I have taken some sort of action in my company based on information received on the MRO SAC Threat Call?

Answered: 18   Skipped: 0
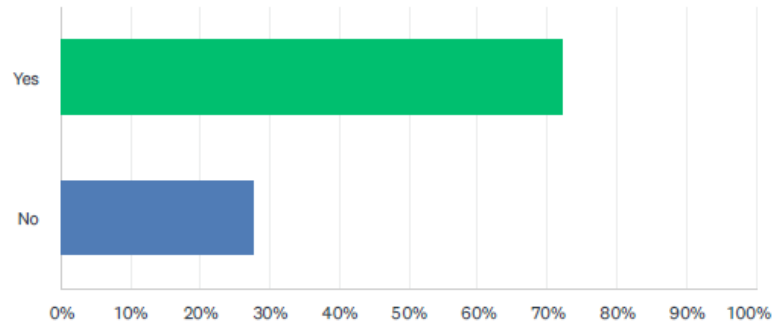
ANSWER CHOICES	RESPONSES	
Yes	72.22%	13
No	27.78%	5
TOTAL		18

Q2 Comments:

Answered: 6   Skipped: 12

#	RESPONSES	DATE
1	Information from the SACTF is shared with need to know staff.	4/24/2024 8:55 AM
2	Provide the region as value as possible	4/24/2024 8:54 AM
3	Always a great call!	4/24/2024 8:54 AM
4	Information from the SACTF is shared with need-to-know staff.	4/3/2024 8:40 AM
5	This is only my second threat call, so there has not been much opportunity for me personally.	4/3/2024 8:40 AM
6	This call was MUCH better than previously attended. Having actual information to present without Slido polls and wasting time. Giving a brief and having applicable information regarding numerous threats across a variety of sources was just the information we've been looking for. We would appreciate more in the way of information slides besides the topic overview if presenters have information to provide. This would be a great way to showcase things.	3/6/2024 8:44 AM

Public

Q1 I focus on (multi choice – select all that apply):

Answered: 7   Skipped: 0
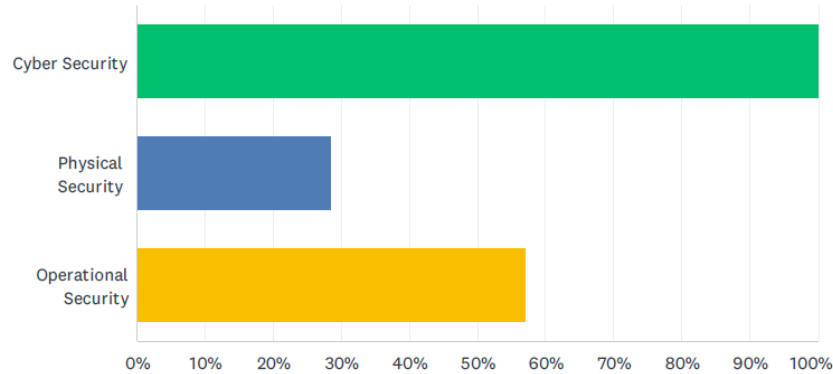
ANSWER CHOICES	RESPONSES	
Cyber Security	100.00%	7
Physical Security	28.57%	2
Operational Security	57.14%	4
Total Respondents: 7		

Q2 Comments:

Answered: 3   Skipped: 4

#	RESPONSES	DATE
1	Information from the SACTF is shared with need-to-know staff.	3/13/2024 8:51 AM
2	Great group and information on current events.	3/13/2024 8:50 AM
3	Information from the SACTF is shared with need-to-know staff.	2/7/2024 8:44 AM

Public

Q1 Me or my company have directly contributed to the conversation during the threat call in the last 3-6 months.

Answered: 6   Skipped: 0
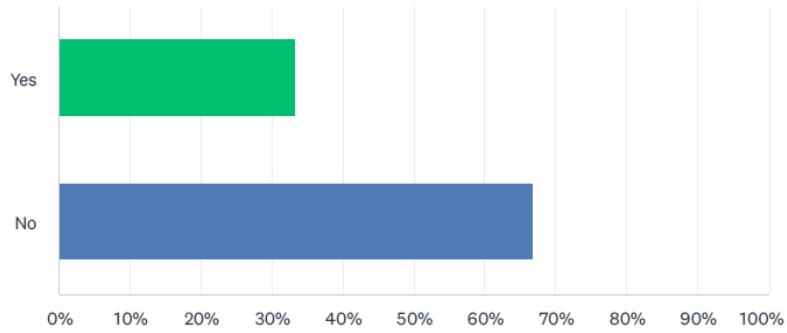
ANSWER CHOICES	RESPONSES	
Yes	33.33%	2
No	66.67%	4
TOTAL		6

Q2 Comments:

Answered: 1   Skipped: 5

#	RESPONSES	DATE
1	Information from the SACTF is shared with need-to-know staff.	4/17/2024 8:45 AM

Public

Q1 I have learned something new from the threat call in the last 3-6 months.

Answered: 23   Skipped: 0
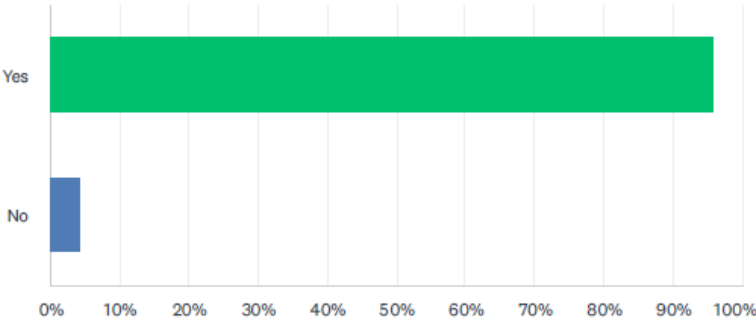
ANSWER CHOICES	RESPONSES	
Yes	95.65%	22
No	4.35%	1
TOTAL		23

Q2 Comments:

Answered: 11   Skipped: 12

#	RESPONSES	DATE
1	Always something new. If not a good reminder! Keep it up and thanks!	4/10/2024 8:55 AM
2	Daniel is doing a great job. We tune in as there is good insight to be found.	4/3/2024 8:49 AM
3	Information from the SACTF is shared with need-to-know staff.	3/27/2024 8:44 AM
4	Great Context	3/27/2024 8:43 AM
5	Information form the SACTF is shared with need-to-know staff.	3/20/2024 8:41 AM
6	Information from the SACTF is shared with need-to-know staff.	3/6/2024 8:42 AM
7	I have significant troubles with logging in recently and incorrect calendar invites. Please correct this.	3/6/2024 8:38 AM
8	Thank you Lee and Steen for these sessions. Hoping more of the participants collaborate more. Great hosts though!	3/5/2024 1:48 PM
9	To be honest, this call was a waste of time. We were hoping to have MRO lead the discussion and provide valuable information regarding the threat of Volt Typhoon/Voltzite. Instead, we spent most of the time doing Slido surveys and having technical issues. It devolved from there. We hope that this meeting, in the future, would be organized and provide useful, valuable information. Having MRO personnel leave the call to open it up to just a roundtable "What do we do now? What do we talk about?" was not the way to conduct this.	2/29/2024 1:35 PM
10	Always good to know what's going on around the nation with fellow peers	2/29/2024 1:07 PM
11	Information from the SACTF is shared with need-to-know staff.	2/28/2024 8:51 AM

Special VoltTyphoon Threat Call Statistics

VoltTyphoon Threat Call Statistics
February 2024 - May 2024 Results
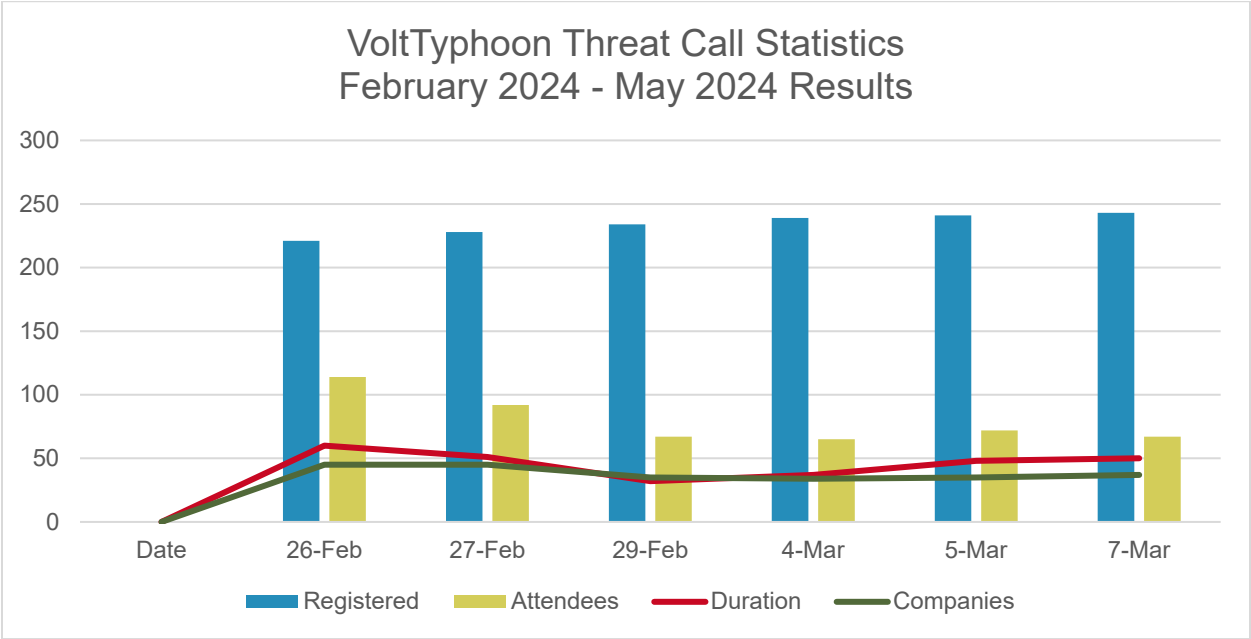
Date	Registered	Attendees	Duration	Companies
February 26	221	114	60	45
February 27	228	92	51	45
February 29	234	67	32	35
March 4	239	65	37	34
March 5	241	72	48	35
March 7	243	67	50	37
Averages	234	80	46	39

Security Discussion
Lee Felter, MRO Principal Security Engineer

Action
Information

Report
MRO Principal Security Engineer Lee Felter will lead this discussion during the meeting.

MRO Representatives on NERC Subgroups – Written Reports
Tony Eddleman, NERC SCWG Representative
Marc Child, Evergy
Alan Kloster, NERC SITES Representative

Action
Information

Report
Representatives from NERC groups will provide oral and written reports.

NERC Supply Chain Working Group (SCWG) Update

Tony Eddleman, P.E.

Nebraska Public Power District

Disclaimer

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SCWG Leadership

- **Chair: Roy Adams, Consolidated Edison Company of New York**

- **Vice Chair - Dr. Thomas Duffey, ITegrity**

- **Secretary – Tom Hofstetter, NERC transitioning to Darrel Richardson (NERC)**

- **Administrator - Stephanie Lawrence (NERC)**

- **RSTC Sponsor: Christine Ericson, Illinois Commerce Commission**

SCWG meets monthly on the third Monday of each month at 12:00 p.m. (central time), except January, February, and June due to holidays

Supply Chain Security Gap Assessment and NERC 013-2 SAR Response (combined workstream)

- **SCWG to report back to the NERC Standards Committee and the NERC RSTC**

- **SCWG Team has been meeting weekly since December 2023**

- **Team identified industry resources that address concerns**

- **Additional FERC guidance was provided at the end of April**

  - A lack of specificity of how entities are to properly identify and assess supply chain security risks

  - A lack of sufficient triggers requiring the activation of an entity's supply chain risk management plan

  - A lack of requirements to respond to the risks identified through an entity's supply chain risk assessment

Supply Chain Security Gap Assessment and NERC 013-2 SAR Response

- **Detailed Description - Revise CIP-013-2 to:**
  - Require entities to create specific triggers to activate the supply chain risk assessment(s).
  - Include the performance of supply chain risk assessment(s) during the planning for procurement, procurement, installation of procured equipment/software/services, and post procurement assessment.
  - Include steps to validate the completeness and accuracy of the data, assess the risks, consider the vendor's mitigation activities, and document and track any residual risks.
  - Track and respond to all risks identified.
  - Re-assessment of standing contract risks on a set timeframe.
  - Re-assessment of time delay installation beyond a set timeframe.

Supply Chain Security Gap Assessment and NERC 013-2 SAR Response

- **Industry Resources**

  - SCWG Security Guideline: Supply Chain Provenance (March 22, 2023)

  - NATF CIP-013 Implementation Guidance-Supply Chain Risk Management Plans

  - NATF Industry Collaboration: Using Solution Providers for Third-Party Risk Management

  - NATF Supply Chain Risk Management Guidance

  - Supply Chain Risk Assessment: Final Report, July 2018 (EPRI)

  - EEI Model Procurement Contract

Where to Find Supply Chain Resources

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

Where to Find Supply Chain Resources

The Model

Supply Chain Security Assessment Model

NATF Supply Chain Security Criteria (V4.0)

Energy Sector Supply Chain Risk Questionnaire (V4.0)

Revision Process for the Energy Sector Supply Chain Risk Questionnaire and NATF Supply Chain Security Criteria

Resources

Documents

APPA's Cyber Supply Chain Risk Management (external)

EEI Model Procurement Contract Language Addressing Cybersecurity Supply Chain Risk V3 (external)

NATF CIP-013 Implementation Guidance-Independent Assessments (ERO Endorsed)
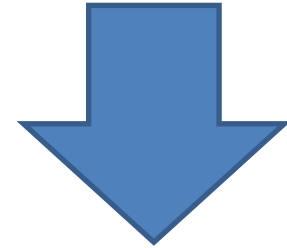
NATF CIP-013 Implementation Guidance-Supply Chain Risk Management Plans (ERO Endorsed)

NATF Guidance for CIP-010-3 Software Integrity

NATF Supply Chain Risk Management Guidance

Understanding Third-Party Assessments

Scroll down for more resources!

Available at: https://www.natf.net/industry-initiatives/supply-chain-industry-coordination/all-resources

CLARITY   ASSURANCE | RESULTS

Public

Security Guidelines Status

- **Vendor Identified Incident Response Measures**
  - Industry Comments Received
  - Team activity has been minimal
- **Supply Chain Procurement Language**
  - Team is finalizing response to industry comments and this version is planned to proceed through approval and posting
    - Final revision to SCWG in June for approval
  - Planning more robust changes in a future revision

NERC Reliability & Security Technical Committee
Marc Child, Great River Energy

Action
Information (Written Report)

Report
The NERC RSTC met in San Diego for their 1st quarter meeting on March 12-13, 2024. The agenda was heavy with topics related to IBRs, DERs, and other topics related to our changing resource mix, with only one informational security-related action item related to the Security Working Group (SWG). The chair of that group briefed the RSTC on their guideline review process and their proposal to retire three legacy Security Guidelines. Industry feedback will be sought in advance of retirement:

- Security Guideline: Control Systems Electronic Connectivity (dated 10/28/2013)
- Security Guideline: Physical Security Considerations at High Impact Control Centers (dated 3/5/2019)
- Security Guideline: Physical Security Response (dated 10/28/2013)

Additionally, the SWG provided an updated scope document which clarified co-chair's structure and verbiage intended to address potential overlap with SITES scope, and which was subsequently approved as part of the Consent Agenda. Lastly, the SWG provided a written progress report to inform on multiple in-progress projects.

The Supply Chain Working Group (SCWG) provided a written progress report which include work on gap assessment for CIP-013-2 and analysis and anticipated technical feedback of a recent CIP-013-2 SAR.

The Security Integration & Technology Enablement Subcommittee (SITES) provided a written progress report which include a New Technology Enablement whitepaper, and development of a work plan survey.

Leadership of the SWG, SCWG, and SITES groups have begun meeting regularly to de-conflict workplans and look for opportunities for the groups to collaborate.

The next RSTC meeting will be held at Amazon in Seattle WA on June 11-12, 2024.

NERC SITES Update

Alan Kloster

Evergy

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NERC Sites Update

- **The NERC Security Innovation and Technology Enablement Subcommittee (SITES) had their quarterly meeting on April 9, 2024.**

- **Karl Perman, CEO of CIP Corps, was selected as the new chair for a two-year term. Thomas Peterson was re-elected as vice-chair for another term.**

- **SITES voted at the meeting to present their New Technology Enablement whitepaper which recommends NERC support field testing opportunities for new technology to the RSTC at their June 11th quarterly meeting for endorsement.**

- **Announced new work plan items for SITES:**

  - Security Guideline for IBR Architecture

  - Security Guideline for DER Aggregators

  - Collaborate with the Security Working Group on a Physical Security Guideline

Public

NERC Sites Call for Volunteers

- **Security Integration & Technology Enablement Subcommittee (SITES) is seeking volunteers** to join the team to develop a security guideline for **inverter-based resources**, specifically including security controls for implementation architectures.

- An important attribute of the SITES is that its teams have members with knowledge and experience that enables them to provide useful information that industry can use to enhance security practices and mitigate risks to reliability. We seek to increase industry participation in these teams as demand grows for experts who can help develop timely and high-quality recommendations and guidance to industry, ERO Enterprise, and other stakeholders.

- For more information about SITES, see the [SITES Scope](#) document.

- Contact the SITES Coordinator:

Larry Collier
SITES Coordinator
North American Electric Reliability Corporation
Larry.Collier@nerc.net
(470)-716-2923

SAC 2024 Work Plan and Breakouts
Ian Anderson, MRO SAC Chair

Action
Discussion

Report
Chair Anderson will lead this discussion during the meeting.

    a. SAC 2024 Work Plan Discussion
    b. SAC Breakout Session 1: Regional Security Risk Assessment (RSRA)
    c. SAC Breakout Session 2: Conferences
    d. SAC Breakout Session 3: Content Creation

Q3 2024 SAC Meeting Suggestions
Ian Anderson, MRO SAC Chair

Action
Discussion

Report
Chair Anderson will lead this discussion during the meeting.

Action Item Review
Margaret Eastman, MRO Security Administrator

Action
Discussion

Report
Margaret Eastman, MRO Security Administrator, will review the action items captured during the meeting.

Other Business and Adjourn
Ian Anderson, MRO SAC Chair

Action
Discussion

Report
Chair Anderson will lead this discussion during the meeting.