

Meeting Agenda

Security Advisory Council (SAC)

February 21, 2024
9:00 am to 3:00 pm Central

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



**MIDWEST
RELIABILITY
ORGANIZATION**

380 St. Peter St, Suite 800
Saint Paul, MN 55102

651-855-1760

www.MRO.net

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.



SECURITY ADVISORY COUNCIL (SAC) AGENDA

Agenda Item	
1	Call to Order, Determination of Quorum <i>Ian Anderson, SAC Chair</i>
2	Standards of Conduct and Anti-Trust Guidelines <i>Steen Fjalstad, MRO Director of Security</i>
3	Safety Briefing <i>Shawn Keller, MRO Outreach Coordinator</i>
4	Chair Remarks <i>Ian Anderson, SAC Chair</i>
5	New and Returning Member Welcome Presentation <i>Ian Anderson, SAC Chair</i>
6	MRO SAC Staff Liaison Remarks <i>Steen Fjalstad, MRO Director of Security</i>
Break – 10:00 a.m. –10:15 a.m.	
7	Regional Risk Assessment (RRA) Update <i>Mark Tiemeier, MRO Principal Technical Advisor</i>
8	2024 Regional Security Risk Assessment <i>Lee Felter, MRO Principal Security Engineer</i>
9	MRO SACTF Update <i>Daniel Graham, Security Advisory Council Threat Forum Representative</i>
10	MRO Representatives on NERC Subgroups Written Reports <i>Ian Anderson, SAC Chair</i>
Lunch – 12:00 p.m. – 1:00 p.m.	
11	Outreach Update <i>Cris Zimmerman, MRO Manager of Outreach and Stakeholder Engagement</i>
12	2025 Security Conference Dates <i>Steen Fjalstad, MRO Director of Security</i>
Break – 1:30 p.m. – 1:45 p.m.	
13	SAC Role Definition <i>Steen Fjalstad, MRO Director of Security</i>
14	SAC Member Engagement Survey <i>Ian Anderson, SAC Chair</i>
15	SAC 2024 Work Plan Review and Updates <i>Ian Anderson, SAC Chair</i>
16	Action Item Review <i>Margaret Eastman, MRO Security Administrator</i>
17	Other Business and Adjourn <i>Ian Anderson, SAC Chair</i>

Call to Order and Determination of Quorum
Ian Anderson, SAC Chair

Name	Role	Company	Term
OPEN	Member		12/31/26
Clayton Whitacre	Member	Great River Energy	12/31/25
Daniel Graham	Member	Basin Electric Power Cooperative	12/31/24
David Johnson	Member	OGE Energy Corp.	12/31/26
Douglas Peterchuck	Member	Omaha Public Power District	12/31/24
Ian Anderson	Chair	OGE Energy Corp.	12/31/25
OPEN	Member		12/31/24
Justin Haar	Member	Minnkota Power Cooperative	12/31/26
Kelly Crist	Member	Engie North America	12/31/26
OPEN	Member		12/31/26
Norma Browne	Member	Ameren	12/31/24
Patrick Glunz	Member	Nebraska Public Power District	12/31/25
Peter Grandgeorge	Member	MidAmerican Energy Company	12/31/25
Rocky Tolentino	Member	Southwest Power Pool	12/31/25
Tim Anderson	Member	Dairyland Power Cooperative	12/31/24

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.
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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
	When the Chair senses that the Committee is substantially in agreement, and the Motion needed little or no debate. No actual vote is taken.	The minutes show “by unanimous consent.”
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

Standards of Conduct and Antitrust Guidelines
Steen Fjalstad, Director of Security, MRO

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.

Antitrust 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.

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.

New and Returning Member Welcome Presentation
Ian Anderson, SAC Chair

Action

Information

Report

Chair Anderson will lead this discussion during the meeting.



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Midwest Reliability Organization

New Member Welcome Presentation

CLARITY

ASSURANCE

RESULTS

Advisory Council Structure



CLARITY

ASSURANCE

RESULTS

Organizational Group Oversight Committee (OGOC)

- **The OGOC:**

- Establishes and oversees MRO organizational groups and policies applicable to organizational groups
- Ensures organizational groups are effective and efficient and do not duplicate the work of others
- Designates individuals to represent MRO on NERC organizational groups
- The Organizational Group Oversight Committee Charter is posted on [MRO's public website](#)



OGOC 2024 Roster

Member	Sector	Company
Ben Porath	COOP	Dairyland Power Cooperative
Darcy Neigum	<IOU	Montana-Dakota Utilities
Daryl Maxwell, Vice Chair	CU	Manitoba Hydro
Dehn Stevens	IOU \geq 3000	MidAmerican Energy Company
Eric Miller	TSO	MISO
Eric Schmitt	Ind.	Independent Director
Iqbal Dhani	CU	Saskatchewan Power Corporation
Jeanne Tisinger	Ind.	Independent Director
JoAnn Thompson, Chair	<IOU	Otter Tail Power Company
Maurice Moss	MU	Kansas City Board of Public Utilities



Guiding Principles for Council Members

- **These MRO Organizational Group Guiding Principles complement charters. When the Principles are employed by members, they will support the overall purpose of the organizational groups.**
- **Organizational Group Members should:**
 1. Regularly attend meetings of the group(s) on which the member serves.
 2. Competently prepare for, and be an active participant in, the meetings for the group(s) on which the member serves.
 3. Collaborate with other organizational group members in support of the mission, vision, and strategic initiatives of MRO.
 4. Support the Highly Effective Reliability Organization (HERO™) principles.



Types of Diversity

Inherent Diversity

- Race
- Ethnicity
- Age
- National origin
- Sexual orientation
- Cultural identity
- Assigned sex
- Gender identity

Acquired Diversity

- Expertise (e.g., engineering, operations, security)
- Experience (e.g., executive, technical)
- Geography (e.g., US, Canada, north, south)
- Company (e.g., no more than two members from the same company per group)



The Value of Diverse Teams

- **More focused on facts**
 - More likely to constantly reexamine facts and remain objective
 - Can lead to improved and more accurate group thinking
- **Facts are processed more carefully**
 - Considering the perspective of an outsider can result in improved decision-making and results
- **More innovative**
 - Diversity boosts intellectual potential
 - Conformity discourages innovative thinking

SOURCE: <https://hbr.org/2016/11/why-diverse-teams-are-smarter>



MRO Security Advisory Council

- **The MRO SAC Provides advice and counsel to MRO's Board, staff, members, and registered entities regarding:**
 - (1) cybersecurity;
 - (2) physical security; and
 - (3) SCADA, EMS, substation and generation control systems.
- **Provides outreach and promotes awareness in these three key security areas**
- **Complements the work of E-ISAC**
- **Provides Outreach to the Industry and its partners**
- **<https://www.mro.net/committees/SAC/Pages/default.aspx>**



SAC Council Membership

- **MRO's Council consists of 15 members:**

- Pursuant to [Policy and Procedure 3](#) - Establishment, Responsibilities, and Procedures of Organizational Groups and MRO Sponsored Representative on NERC Organizational Groups, membership on councils is based on experience and expertise.
- No more than two members of the MRO (Council) may be an employee of a single entity or affiliated entities.
- At least three sectors will be represented on the MRO (Council). To the extent practicable, membership will reflect geographic diversity and balanced sector representation.
- Individuals with expertise and experience in the areas of cybersecurity, physical security, and control system security serve on the MRO SAC.



MRO SAC Roster

Member	Term End	Company
OPEN	12/31/26	
Clayton Whitacre	12/31/25	Great River Energy
Daniel Graham	12/31/24	Basin Electric Power Cooperative
David Johnson	12/31/26	OGE Energy Corp.
Douglas Peterchuck	12/31/24	Omaha Public Power District
Ian Anderson, Chair	12/31/25	OGE Energy Corp.
OPEN	12/31/24	
Justin Haar	12/31/26	Minnkota Power Cooperative
Kelly Crist	12/31/26	Engie North America
OPEN	12/31/26	
Norma Browne	12/31/24	Ameren
Patrick Glunz	12/31/25	Nebraska Public Power District
Peter Grandgeorge	12/31/25	MidAmerican Energy Company
Rocky Tolentino	12/31/25	Southwest Power Pool
Tim Anderson	12/31/24	Dairyland Power Cooperative



SAC Key Responsibilities

- The SAC started in 2017, so this is our 8th year
- Annually develop a work plan in coordination with MRO staff to support the MRO Strategic Plan and Metrics for approval by the OGOC and report performance progress. Support the development of the Regional Risk Assessment
- Serve as subject matter experts for MRO registered entities, members, other organizational groups, staff, as well as the board and its committees. Annual Review of the charter and more. If you would like to see all the responsibilities they can be found in the MRO SAC Charter.
- Support the development of the annual MRO Regional Risk Assessment by identifying risks, trends, and mitigating activities.
- Recommend the establishment of subgroups to support the SAC work plan as appropriate. Oversee and provide direction to any subgroups.
- Maintain awareness of efforts by industry, NERC and other Regional Entity organizational groups to avoid or minimize duplicative efforts and to partner and coordinate where appropriate.



SAC Key Responsibilities (cont.)

- **Conduct outreach and awareness to increase security and decrease risk to the reliable and secure operations of the bulk power system.**
- **Develop a Highly Effective Reliability Organization (HERO) outreach effort to help registered entities assess and improve their own security practices.**
- **Recommend individuals to represent MRO as representatives on NERC organizational groups to the OGOC.**
- **Provide guidance and communicate expectations to MRO NERC representatives, receive reports from MRO NERC representatives, and disseminate the information as directed by the board's OGOC.**
- **Support the applicable NERC program areas.**
- **Annually review the charter and propose changes as needed to the OGOC.**
- **The SAC will provide strategic support and guidance to the SACTF, review the SACTF Work Plan and Charter, and collaborate in an effort to ensure cohesion and mitigate duplicate efforts with SAC .**



Meetings

- The MRO SAC will meet quarterly or as necessary, in person or via conference call and/or web meeting. Once a year the MRO (Council) will meet with the OGOC the day before a regularly scheduled board meeting.
- All MRO council chairs and vice chairs will meet with the OGOC the day before the fourth quarter regularly scheduled board meeting to review the council's accomplishments during the past year and to develop work plans for the following year.
- Meetings of the SAC are open to public attendance; however, the meeting may be called into closed session by the chair or vice chair. Additional meeting requirements related to agendas and minutes, voting and proxy, and rules of conduct are outlined in MRO Policy and Procedure 3 - Establishment, Responsibilities, and Procedures of Organizational Groups and MRO Representation on NERC Organizational Groups.
- Meeting costs incurred by SAC members are reimbursable by MRO according to [MRO Policy and Procedure 2 – Expense Reimbursement](#).



Meeting/Event Dates

Upcoming SAC Meeting Dates

Meeting/Event	Date
Quarter 1	February 21, 2024
Quarter 2	May 14, 2024
Quarter 3	August 6, 2024
Security Conference	October 1-2, 2024
Quarter 4	October 3, 2024



Guidelines for Meetings

- **Meeting Agendas:**

- Short agenda posted one month prior to meeting
- Agenda Packet posted one week prior to meeting

- **Meeting Minutes:**

- Support Staff/Liaison will review up to two weeks after meeting takes place
- Council will review for one week
- Council will vote to approve

Work Plan

MRO SAC 2024 Work Plan - DRAFT



#	Work Item	Source	Activity	Timing	Responsible	Item A	Item Type	Status	Notes
1	Newsletter Articles	Charter	Draft Newsletter Articles for publication in Midwest Reliability Matters	Periodically	SAC Members	OGOC	Work Plan	Open	MRO SAC will author at least 2 articles in 2024.
2	Webinars	Charter	Host Webinars for registered entities to increase security and decrease risk to the reliable and secure operations of the bulk power system	Periodically	SAC Members	OGOC	Work Plan	Open	MRO SAC will host at least 1 webinar in 2024.
3	Security Conference	Charter	MRO Security Conference (1/2 Day)	Qtr. 4	SAC Members	OGOC	Work Plan	Open	MRO SAC will work with MRO staff to host the 11th annual security conference in October 2024.
4	Security Conference	Charter	MRO Security Training (1/2 Day)	Qtr. 4	SAC Members	OGOC	Work Plan	Open	MRO SAC members will work with MRO staff to host the security training event in October 2024.
5	Regional Security Risk Assessment	Charter	Continue the work of the 2023 Regional Security Risk Assessment through an updated survey, risk discussion meetings, and an updated report.	Qtr. 1-3	SAC Members	OGOC	Work Plan	Open	MRO SAC members will work with MRO staff to administer a survey to identify shifts in risks and identify new risks. SAC members will participate in meetings to discuss risk rankings and to provide an updated report in Q3.
6	Stakeholder Survey	Charter	Survey stakeholders to determine effectiveness of SAC outreach.	Qtr. 4	SAC Members	OGOC	Work Plan	Open	SAC members will work with MRO staff to administer a survey on the effectiveness of SAC outreach.
7	Risk Ranking Support for MRO RRA	Charter	Identify two SAC members to support MRO performing risk ranking of items on heat map. Expected work load is 20-40 hours in Fall.	Qtr. 4	SAC Members	Council	Work Plan	Open	
	Grid Security Conference	Charter	Provide panel talk at Grid Security Conference (GridSecCon)	Qtr. 4	SAC Members	Council	Work Plan	Open	

The items above this row are seeking/have been granted OGOC approval. The items below this row are example ideas on how the advisory council could implement any approved work plan items.



MRO SACTF

- The MRO Security Advisory Council Threat Forum (SACTF) is an MRO organizational group that addresses regional risks by facilitating the sharing of threat information pertaining to cyber, physical, and operational security, arising from government or industry sources
- The MRO SACTF will provide a report to the MRO SAC
- <https://www.mro.net/committees/SAC/sactf/Pages/default.aspx>



MRO Security Advisory Council Threat Forum Membership

MRO's SACTF consists of 5 members:

- Pursuant to Policy and Procedure 3 - Establishment, Responsibilities, and Procedures of Organizational Groups and MRO Sponsored Representative on NERC Organizational Groups, membership of organizational groups shall be determined based upon experience, expertise and geographic diversity and to the extent practicable, shall include a balanced representation of the sectors.
- Membership is based on geographic representation (locale).



MRO SACTF

2024 Roster

Member	Company	Term End
Brett Lawler	Xcel Energy	12/31/25
David Webb	MISO	12/31/26
Scott Stoner	Nebraska Public Power District	12/31/25
Daniel Graham	Basin Electric Power Cooperative	12/31/24
Kevin Plagman	Omaha Public Power District	12/31/24



SACTF Key Objectives/Activities

- Establish and support regional forums for the exchange, discussion, and collaboration on threat information.
- Identify and develop key contacts and sources from MRO members and government to leverage their security knowledge within the regional forums.
- Host a weekly threat call in accordance with the MRO SAC Threat Call Guidelines.
- Work in conjunction with MRO and the SAC to develop training on security threats to the industry.
- Support the efforts of the SAC to conduct outreach and awareness to increase security and decrease risk to the reliable and secure operations of the bulk power system as requested.



Meetings

- The MRO SACTF will meet quarterly or as necessary, typically via conference call and/or web meeting.
- Meetings of the SACTF are only open to individuals approved pursuant to the MRO SAC Threat Forum Guidelines. Additional meeting requirements related to agendas and minutes, voting and proxy, and rules of conduct are outlined in MRO Policy and Procedure 3 - Establishment, Responsibilities, and Procedures of Organizational Groups and MRO Representation on NERC Organizational Groups.
- Meeting costs incurred by SACTF members are reimbursable by MRO according to MRO Policy and Procedure 2 – Expense Reimbursement



Meeting Dates

Upcoming SACTF Meeting Dates

Meeting/Event	Date
Quarter 1	February 28, 2024
Quarter 2	None
Quarter 3	None
Quarter 4	None

Important Links

SAC mailing list: mrosac@mro.net Please be sure to whitelist

SAC plus guests mailing list: mrosac-plus@mro.net Please be sure to whitelist

SAC Public Site: <https://www.mro.net/organizational-groups/security-advisory-council/>

SACTF Public Site: <https://www.mro.net/organizational-groups/security-advisory-council/security-advisory-council-threat-forum/>

Expense Reimbursement: [MRO Policy and Procedure 2 – Expense Reimbursement](#)

Member Responsibilities: [MRO Policy and Procedure 3- Establishment, Responsibilities](#)

Confidentiality Policy: [MRO Policy and Procedure 5 \(Confidentiality Policy\)](#)



MRO Contact Information

MRO Website: <http://www.mro.net>

Address: 380 St. Peter Street, Suite 800

Saint Paul, MN 55102

Phone: 651-855-1760 (main)

MRO SAC Support Staff

Steen Fjalstad

Director of Security

Phone: 651-851-1755

Steen.Fjalstad@mro.net

MRO SAC Support Staff

Lee Felter, PE

Principal Security Engineer

Phone: 651-256-5170

Lee.Felter@mro.net

MRO Support Staff

Margaret Eastman

Security Administrator

Phone: 651-855-1755

Margaret.Eastman@mro.net



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. OGOE and Annual Risk Meeting Recap*
- b. HERO award*
- c. Quarterly Meeting Logistics (Hybrid/Virtual)*
- d. Department Overview*
- e. Other*

MRO Regional Risk Assessment (RRA) Report
Mark Tiemeier, Principal Technical Advisor, MRO

Action

Information

Report

Mark Tiemeier will provide an oral report during the meeting.

- a. 2024 RRA Recap*
- b. 2025 RRA Timeline*



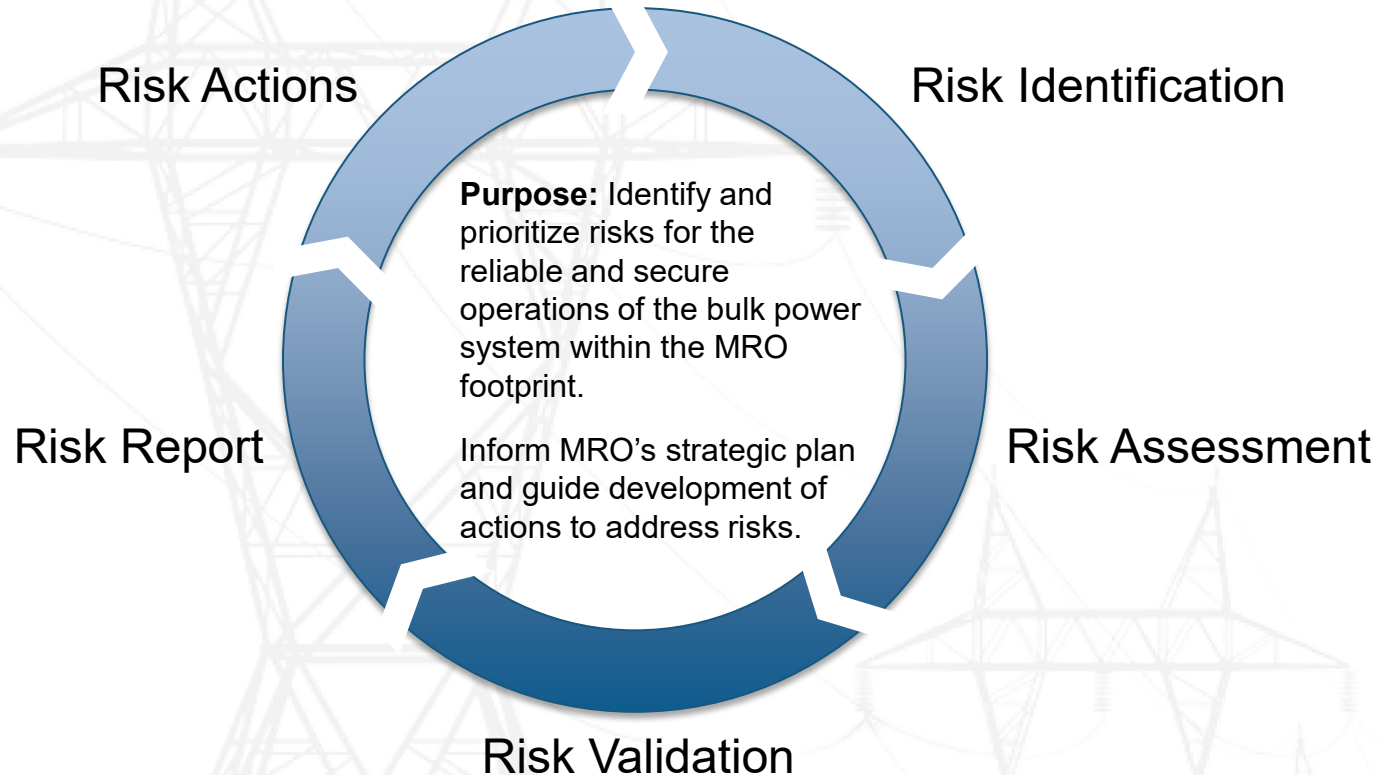
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MRO 2024 Regional Reliability Risks and 2025 RRA Timeline

Mark Tiemeier

Principal Technical Advisor

Regional Risk Assessment Process

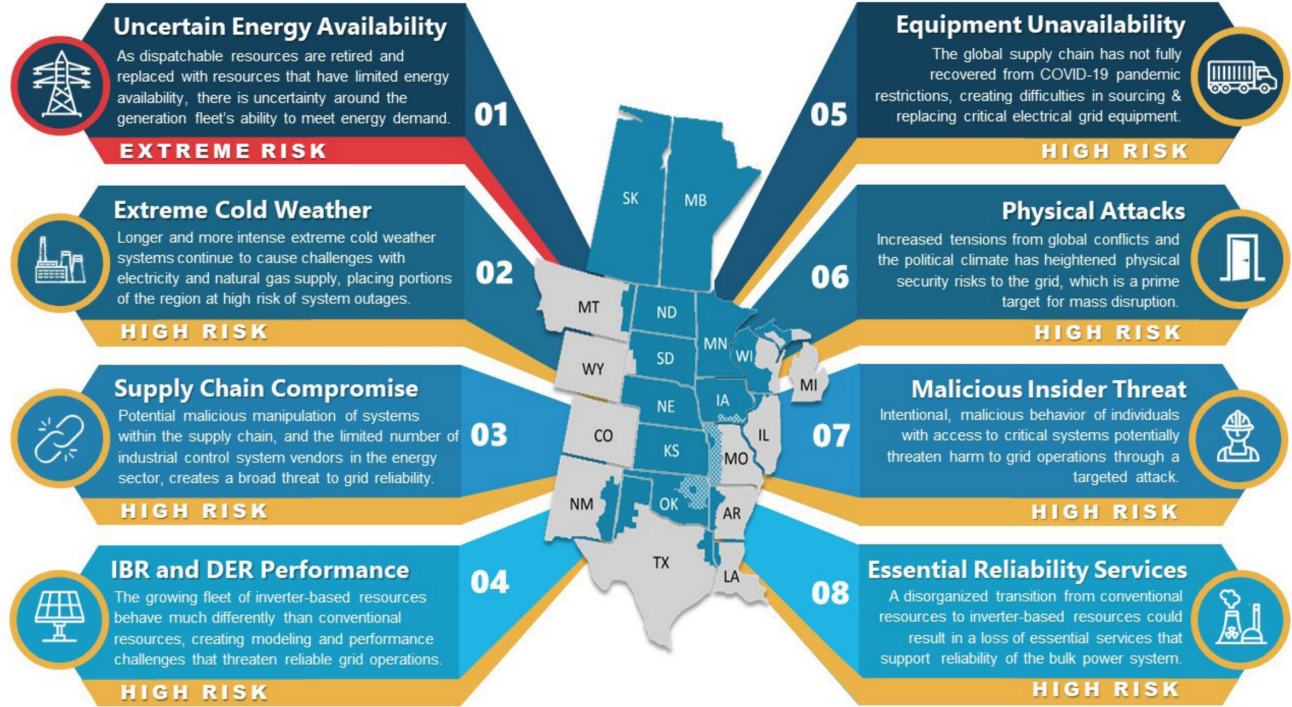




2024 Regional Risk Assessment

Top risks to the reliable and secure operation of the regional bulk power system.

Published
Feb 5, 2024



More information about bulk power system regional risk and mitigating activities can be found at www.mro.net

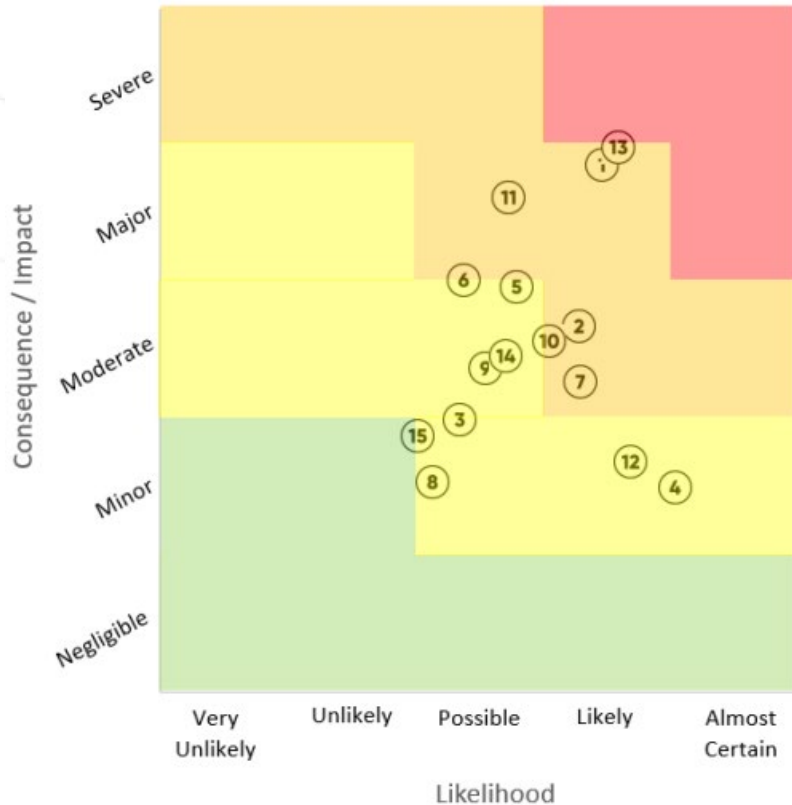


CLARITY

ASSURANCE

RESULTS

2024 Regional Reliability Risks



Reliability Risks

- 1 Generation Unavailability During Extreme Cold Weather
- 2 Inadequate IBR and DER Modeling and Performance
- 3 Increased Penetration of Internet-Connected Devices
- 4 Insufficient Physical Access Controls
- 5 Loss of Essential Reliability Services
- 6 Malicious Insider Threat
- 7 Material and Equipment Unavailability
- 8 Misoperations Due to Human Errors
- 9 Phishing / Malware / Ransomware
- 10 Physical Attacks
- 11 Supply Chain Compromise
- 12 Tight Supply of Expert Labor
- 13 Uncertain Energy Availability
- 14 Use of Inaccurate Transmission Facility Ratings
- 15 Vulnerabilities of Unpatched Systems



CLARITY

ASSURANCE

RESULTS

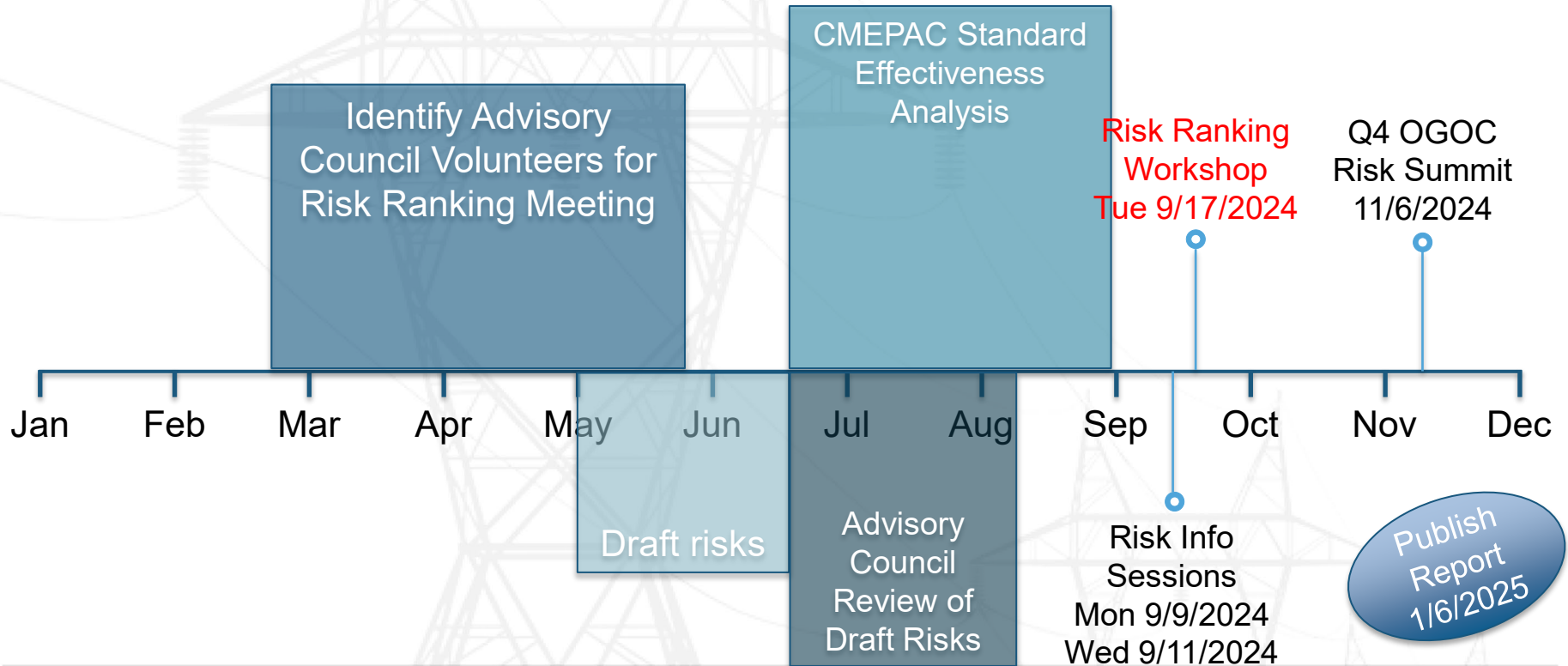
2024 RRA Webinar

**Wednesday,
February 28, 2024
9:00-10:00am**

**[https://www.mro.net/event/
2024-regional-risk-
assessment-overview-
webinar/](https://www.mro.net/event/2024-regional-risk-assessment-overview-webinar/)**



2025 RRA Timeline



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RESULTS



CLARITY

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RESULTS

Regional Security Risk Assessment
Lee Felter, MRO Principal Security Engineer

Action

Information

Report

Lee Felter, MRO Principal Security Engineer, will provide an oral report during the meeting.

MRO SACTF Update
Daniel Graham, MRO SACTF Member

Action

Information

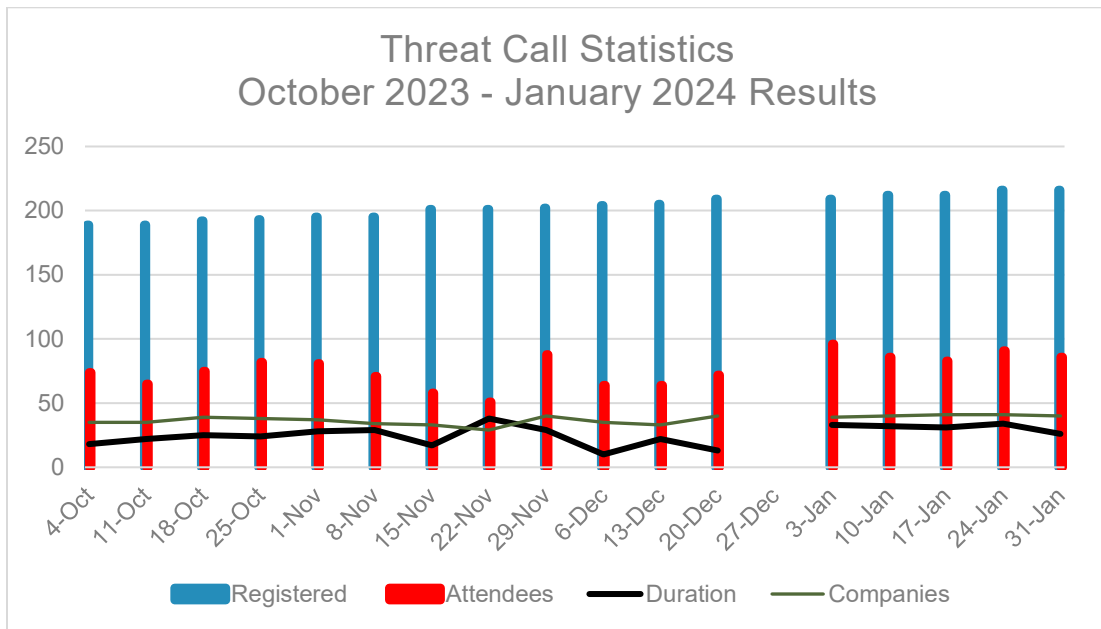
Report

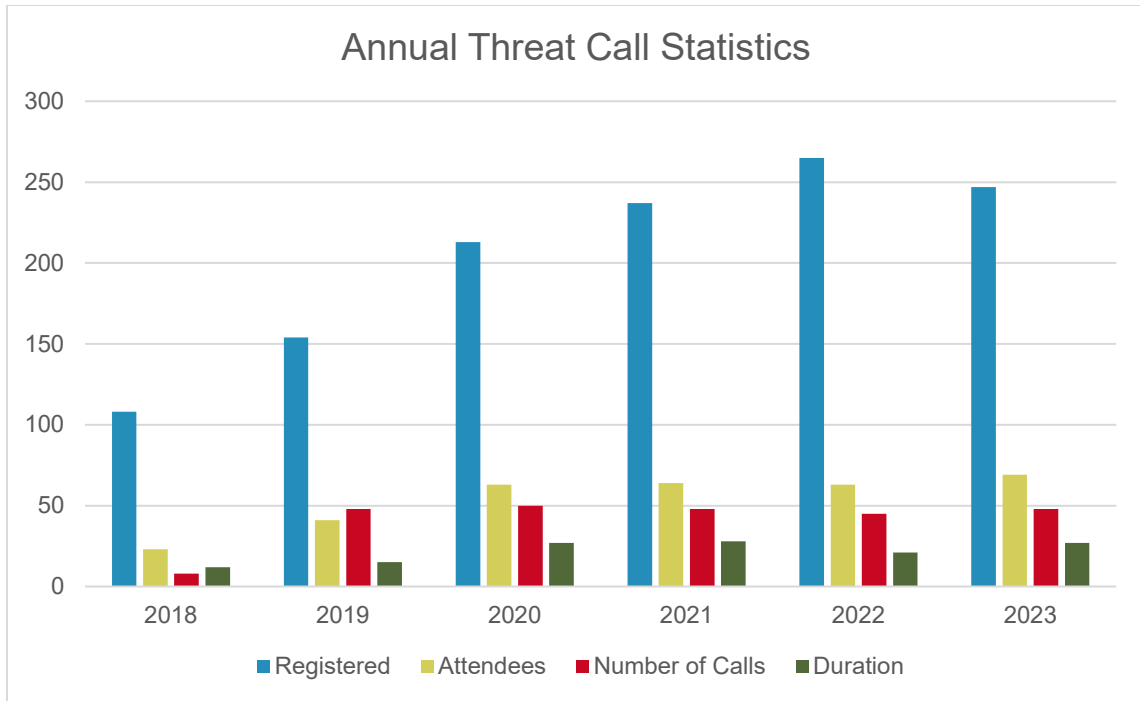
SACTF Member Daniel Graham will provide an update on the SACTF Threat Call.

- 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 Charter and Guidelines Update*

Threat Call Statistics

Date	Approved Registrants	Duration	Attendees	Unique Companies
October 4, 2023	189	18	74	35
October 11, 2023	189	22	65	35
October 18, 2023	192	25	75	39
October 25, 2023	193	24	82	38
November 1, 2023	195	28	81	37
November 8, 2023	195	29	71	34
November 15, 2023	201	17	58	33
November 22, 2023	201	38	51	29
November 29, 2023	202	29	88	40
December 6, 2023	204	10	64	35
December 13, 2023	205	22	64	33
December 20, 2023	209	13	72	40
December 27, 2023 (Cancelled)				
January 3, 2024	209	33	96	39
January 10, 2024	212	32	86	40
January 17, 2024	212	31	83	41
January 24, 2024	216	34	91	41
January 31, 2024	216	26	86	40
Averages	203	25 Minutes	76	37





Annual Threat Call Statistics

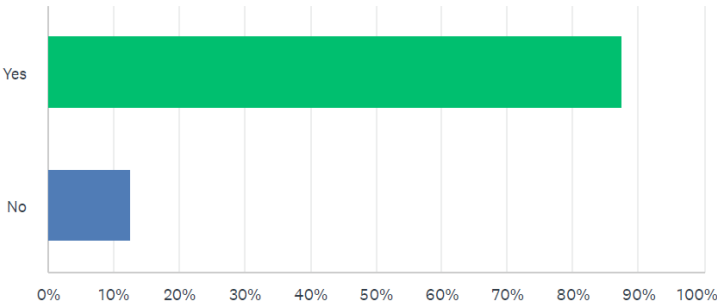
Year	Average Registrants	Average Attendees	Average Duration	Number of Calls
2018	108	23	12 Minutes	8 Calls
2019	154	41	15 Minutes	48 Calls
2020	213	63	27 Minutes	50 Calls
2021	237	64	28 Minutes	48 Calls
2022	265	63	21 Minutes	45 Calls
2023	247	69	27 Minutes	48 Calls

Threat Call Feedback

MRO SAC Threat Call (Question A)

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: 8 Skipped: 0



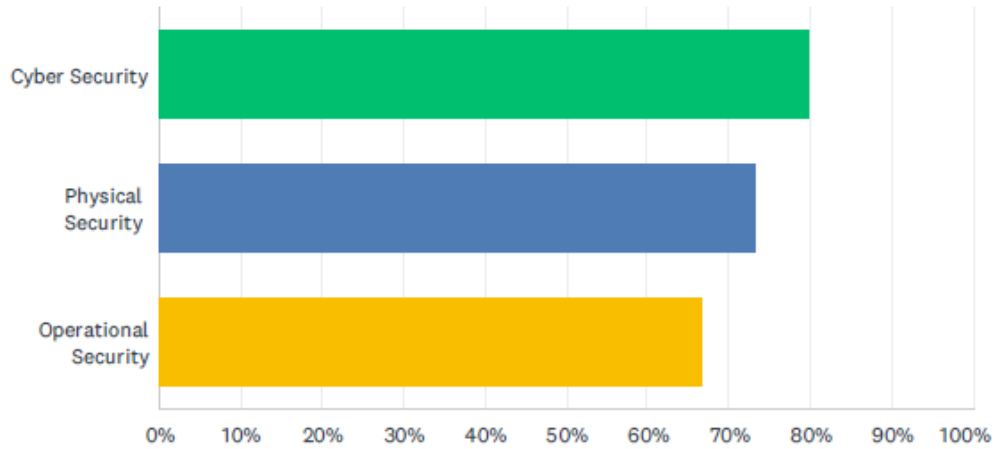
ANSWER CHOICES	RESPONSES	
Yes	87.50%	7
No	12.50%	1
TOTAL		8

#	RESPONSES	DATE
1	Great call and value for everyone to share intel information which leads to patterns and trending which could be captured. Appreciate it.	1/10/2024 8:45 AM
2	Infomation from the SACTF is shared with need-to-know staff.	1/10/2024 8:13 AM
3	Most of the conversations sparks further conversation within our internal Security Team. Great information and discussions, always.	12/6/2023 8:16 AM
4	Thank you.	12/6/2023 8:16 AM

MRO SAC Threat Call (Question B)

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

Answered: 15 Skipped: 0



ANSWER CHOICES		RESPONSES	
Cyber Security		80.00%	12
Physical Security		73.33%	11
Operational Security		66.67%	10
Total Respondents: 15			

Q2 Comments:

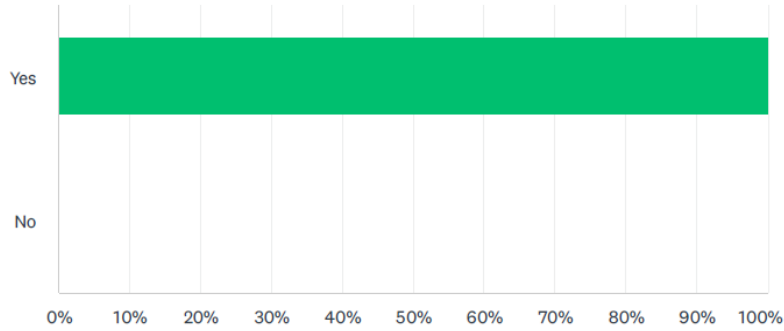
Answered: 6 Skipped: 9

#	RESPONSES	DATE
1	Great work as always!	1/24/2024 8:45 AM
2	Great conversation on the Ivanti situation	1/24/2024 8:45 AM
3	n/a	1/24/2024 8:33 AM
4	Information from the SACTF is shared with need-to-know staff.	1/24/2024 8:09 AM
5	Always provides interesting links.	12/13/2023 8:37 AM
6	<p>It is important to bring in other entities other than energy for a cyber and physical threat call because these entities can provide valuable insights and expertise that can help to mitigate the threat. These entities may include: Government agencies: Government agencies such as the Cybersecurity and Infrastructure Security Agency (CISA) and the Federal Bureau of Investigation (FBI) have extensive experience in dealing with cyber and physical threats. They can provide guidance on how to assess and respond to these threats, and they can also share intelligence about current threats and vulnerabilities. Industry associations: Industry associations such as the American Petroleum Institute (API) and the Electric Power Research Institute (EPRI) can provide information about specific cyber and physical threats to the energy sector. They can also share best practices for mitigating these threats. Security vendors: Security vendors can provide information about the latest cyber and physical security solutions. They can also help to implement and manage these solutions. Academia: Academia can provide research and expertise on cyber and physical security. This expertise can be helpful in developing new solutions and in improving existing solutions. By bringing in other entities for a cyber and physical threat call, organizations can get a more comprehensive understanding of the threat and develop a more effective response plan. Here are some specific examples of how other entities can help to mitigate cyber and physical threats to the energy sector: Government agencies can provide intelligence about current threats and vulnerabilities. For example, CISA can provide information about known malware and attack vectors. Industry associations can share best practices for mitigating specific threats. For example, API can provide information about how to protect oil and gas pipelines from cyberattacks. Security vendors can provide the latest cyber and physical security solutions. For example, a security vendor can provide a solution for detecting and responding to cyberattacks on industrial control systems. Academia can provide research and expertise on cyber and physical security. For example, researchers at a university may be developing a new way to detect and prevent physical attacks on power grids. By working together, the energy sector and other entities can better protect themselves from cyber and physical threats.</p>	10/4/2023 8:35 AM

MRO SAC Threat Call (Question C)

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

Answered: 8 Skipped: 0



ANSWER CHOICES	RESPONSES	
Yes	100.00%	8
No	0.00%	0
TOTAL		8

Q2 Comments:

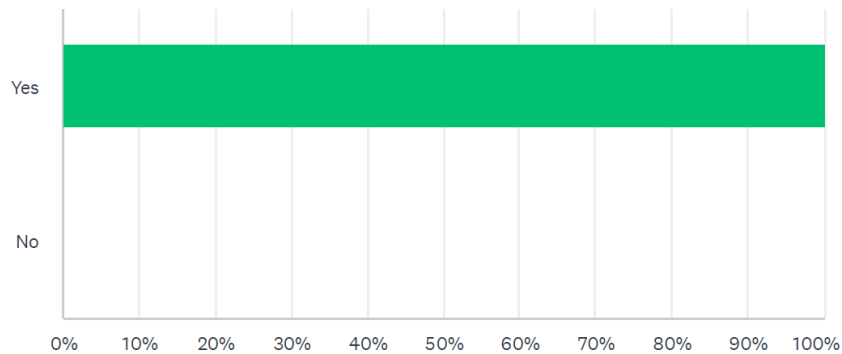
Answered: 2 Skipped: 6

#	RESPONSES	DATE
1	Information is shared with need-to-know staff.	11/29/2023 8:44 AM
2	Good calls!	11/22/2023 9:47 PM

MRO SAC Threat Call (Question D)

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

Answered: 15 Skipped: 0



ANSWER CHOICES	RESPONSES	
Yes	100.00%	15
No	0.00%	0
TOTAL		15

Q2 Comments:

Answered: 7 Skipped: 8

#	RESPONSES	DATE
1	Organize the content of presentation better. It seems very random for some meetings. In general a good meeting, but it can be improved.	1/17/2024 8:46 AM
2	Information from the SACTF is shared with need-to-know staff.	1/17/2024 8:45 AM
3	It's nice to have the ability to get to the details of stuff that has been validated by security experts within the region. Was such a large group now it's gonna be harder and harder to build trust with the new membership and so I think finding ways for people to still maintain their trust and privacy, off-line and separate discussions might be beneficial	1/3/2024 8:49 AM
4	Glad to be included in this group - just joined late 2023 and always great to be engaged with our peers in the region. Thanks.	1/3/2024 8:40 AM
5	Information from the SACTF is shared with need-to-know staff.	1/3/2024 8:21 AM
6	Information from the SACTF is shared with need-to-know staff.	10/18/2023 8:39 AM
7	Information is shared with need-to-know staff.	10/11/2023 8:37 AM

MRO Representatives on NERC Subgroups – Written Reports

Tony Eddleman, NERC SCWG Representative

Marc Child, Evergy

Alan Kloster, NERC SITES Representative

Action

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Report



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NERC Supply Chain Working Group (SCWG) Update

Tony Eddleman, P.E.
Nebraska Public Power District

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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**
- **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 Risk Management SAR

CIP-013-2

- **SCWG to report back to the NERC Standards Committee**
- **Team Lead: Tobias Whitney, Fortress Information Security**
- **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 Risk Management

CIP-013-2

- **Supply Chain Security Gap Assessment**
 - Assigned to SCWG by RSTC
 - Team Lead: Tobias Whitney, Fortress Information Security
 - Review the current Supply Chain requirements to look for gaps



Security Guidelines Status

- **Product Security Sourcing Guide**

- Team Lead: Tobias Whitney, Fortress Information Security
- Approved by RSTC and posted

- **Vendor Identified Incident Response Measures**

- Team Lead: Mike Prescher, Black & Veatch
- Industry Comments Received

- **Supply Chain Procurement Language**

- Team Lead: Shari Gribbin, CNK Solutions
- Industry Comments Received



NERC Home Page – Select RSTC Committee

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The vision of NERC and the power system is to ensure the reliability of the electric grid.

- ▶ **Reliability and Security Technical Committee (RSTC)**
- Compliance and Certification Committee (CCC)
- Personnel Certification Governance Committee (PCGC)
- Reliability Issues Steering Committee (RISC)
- Standards Committee (SC)
- Standing Committees Coordinating Group (SCCG)

Enterprise, which is comprised of the electric and secure North American bulk power system and efficient reduction of risks to the system.

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RSTC Home Page

Select RSTC Approved Documents Page



The screenshot shows the NERC (North American Electric Reliability Corporation) website. The top navigation bar includes links for 'About NERC', 'Career Opportunities', 'Governance', 'Committees', 'Program Areas & Departments', 'Standards', 'Initiatives', 'Reports', and 'Filings & Orders'. The 'Committees' link is selected, leading to the 'Reliability and Security Technical Committee (RSTC)' page. A large blue arrow points to the 'RSTC Approved Documents Page' link, which is circled in blue. The page content includes a description of the RSTC's mission, a list of its activities, and a sidebar with various resources and documents.

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Home > Committees > Reliability and Security Technical Committee (RSTC)

Reliability and Security Technical Committee (RSTC)

The Reliability and Security Technical Committee (RSTC) is a standing committee that strives to advance the reliability and security of the interconnected bulk power system (BPS) of North America by:

- Creating a forum for aggregating ideas and interests, drawing from diverse industry stakeholder expertise, to support the ERO Enterprise's mission.
- Leveraging such expertise to identify solutions to study, mitigate, and/or eliminate emerging risks to the BPS for the benefit of industry stakeholders, the NERC Board of Trustees (Board), and ERO Enterprise staff and leadership.
- Coordinating and overseeing implementation of RSTC subgroup work plans.

RSTC Approved Documents Page.

- Reliability Guidelines
- Security Guideline
- Technical Reference Documents
- White Papers

Committee Resources

- RSTC Agendas, Highlights, and Minutes
- RSTC Charter
- RSTC Definitions - Groups and Docs
- RSTC Meeting Calendar
- RSTC Newsletter
- RSTC Roster
- RSTC Strategic Plan
- Operating Reliability Data Confidentiality Agreement

Nomination and Election Information

- 2022 RSTC Sector Nominations
- 2022 RSTC At-Large Nominations
- 2023 RSTC Special Election 5: Transmission Dependent Utility

RSTC Work Plan Related Documents

- RSTC Work Plan Notional Process
- RSTC Work Plan



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Reliability and Security Guidelines site

Approved Security Guidelines

Home > Committees > Reliability Guidelines, Security Guidelines, Technical Reference Documents, and White Papers

Reliability Guidelines, Security Guidelines, Technical Reference Documents, and White Papers

The NERC Reliability and Security Technical Committee (RSTC) subcommittees develop Reliability (Operating and Planning), Security Guidelines, and technical reference documents, which include the collective experience, expertise, and judgment of the industry. The objective of the reliability guidelines is to distribute key practices and information on specific issues critical to promote and maintain a highly reliable and secure bulk power system (BPS). Reliability guidelines are not binding norms or parameters to the level that compliance to NERC's Reliability Standards is monitored or enforced. Rather, their incorporation into industry practices is strictly voluntary. Reviewing, revising, or developing a program using these practices is highly encouraged. All current and draft guidelines can be found at the links below.











Reliability Guidelines				
Type	Category	Description	Approval Date	Survey
Approved Reliability Guidelines (19)				
Draft Reliability Guidelines (9)				
Retired Reliability Guidelines (9)				
Security Guidelines				
Type	Category	Description	Approval Date	Survey
Draft Security Guidelines (6)				
Approved Security Guidelines (15)				
Technical Reference Documents				



Reliability and Security Guidelines site

SCWG Security Guidelines

SCWG (10)

	Supply Chain	Product Security Reference Guide	12/7/2023	
	Supply Chain	Product Security Sourcing Guide	12/7/2023	https://www.surveymonkey.com/r/ProductSecuritySourcing
	Supply Chain	Security Guideline: Cloud Computing	12/10/2019	Effectiveness Survey
	Supply Chain	Security Guideline: Cyber Security Risk Management Lifecycle	12/6/2022	Effectiveness Survey
	Supply Chain	Security Guideline: Open Source Software	12/6/2022	Effectiveness Survey
	Supply Chain	Security Guideline: Secure Equipment Delivery	12/6/2022	Effectiveness Survey
	Supply Chain	Security Guideline: Supply Chain Procurement Language	12/15/2020	Effectiveness Survey
	Supply Chain	Security Guideline: Vendor Incident Response	12/10/2019	Effectiveness Survey
	Supply Chain	Security Guideline: Vendor Risk Management Lifecycle	3/22/2023	Effectiveness Survey
	Supply Chain	Security Guideline-Supply Chain Provenance		Effectiveness Survey



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MRO Representatives on NERC Subgroups – Written Reports

Alan Kloster, NERC SITES Representative

Action

Information

Report

This report covers the quarterly NERC SITES committee meeting held virtually on January 23, 2024. Here was the agenda.

Agenda Items

- 1. Technical Presentation & Demo on Claroty CTD (Continuous Threat Detection) from Claroty – Dennis O'Neill – Product Manager, & Arshad Massomi – Solutions Engineer**
 - a. 20 min + 10 min Q&A
 - b. Relation to INSM topic (FERC Order 887)
- 2. Subteam Update: BES Ops In Cloud – Larry Collier**
- 3. Subteam Update: New Technology Enablement & Field Testing – Thomas Peterson**
- 4. Administrative – Secretary Larry Collier, NERC**
 - a. SITES Work Plan Survey – Out this week or next
 - b. Previously Announced Subteam Launch: Delayed – Post Survey and Re-prioritization of SITES Work Plan
- 5. Future Meetings**

1. Two representatives from cybersecurity firm Claroty gave a short overview of their product and demo on how their product can potentially meet CIP requirements. They also discussed how it could be used for internal network security monitoring (INSM) to potentially meet the new standard being developed by Project 2023-03 per FERC Order 887 on INSM.
2. Updates were provided on SITES activities
 - a. *BES Operations in the Cloud* white paper- Larry Collier, the NERC SITES admin, explained that the white paper has been published. They have not met recently and will discuss future steps in an upcoming meeting. The white paper can be found [here](#).
 - b. SITES has sent a first draft of their *New Tech Enablement and Field Testing* white paper out to SITES members and observers for comment and review. They know that there is a lot of cleanup to do but wanted folks to get a first look at what they have done to date. SITES is proposing to have entities coordinate with regional entities to conduct coordinated field trials of new technology. The white paper recommends development of a new

program they are calling RETINA - **R**egional **E**ngagement for **T**echnology & **I**ntegration **I**nnovation **A**ceptance Program. SITES envision Regional Entities as being in the vanguard of conducting these field trials due to their deep-rooted connections with local utilities, policymakers, and stakeholders, which would enable tailored and responsive trials.

- c. SITES will be sending out a work plan survey in the next couple of weeks.
- d. SITES was planning to launch a new sub team to develop a white paper on Risk-Based Physical and Cybersecurity Threats and Their Impacts to BPS Reliability and Resilience but has delayed that until the results of the work plan survey can be analyzed to make sure they are focusing on the right area.

3. **Areas of Focus**

- a) Vendor presentations on new technology
- b) New Tech Enablement whitepaper
- c) Risk-Based Physical and Cybersecurity Threats and Their Impacts to BPS Reliability and Resilience

Accomplishments

- 1. None

Challenges

- 1. None at this time.

Future Meetings

Tentative 2024 Meeting Schedule		
Date	Time	Location
January 23, 2024	12:00-1:00 p.m. Eastern	Virtual – Webex
April 23, 2024	12:00-2:00 p.m. Eastern	Virtual - Webex
July 23, 2024	12:00-2:00 p.m. Eastern	Virtual - Webex
October 22, 2024	12:00-2:00 p.m. Eastern	Virtual - Webex
January 21, 2025	12:00-2:00 p.m. Eastern	Virtual - Webex

NERC Subgroups – Written Reports

Marc Child, Great River Energy

Action

Discussion

Report

The NERC RSTC met via WebEx for their 4th quarter meeting on December 6-7, 2023. The agenda was relatively light with only one security-related action item related to the Supply Chain Working Group (SCWG). The SCWG presented a Product Security Sourcing Guide and Reference Guide for approval. Having met the required processes for subteam approvals and addressing public comments, the guideline was approved by the RSTC for posting. (Note: That posting occurred on January 4th).

Additionally, the SCWG provided a written progress report on their continuing activities, which include a gap assessment for supply chain security standards.

The Security Working Group (SWG) provided a written progress report which include a synchrophaser working group, work on the version 8 evidence request tool, communications system protection guideline, and work on the NIST cybersecurity framework mapping project.

The Security Integration & Technology Enablement Subcommittee (SITES) provided a written progress report which include a New Technology Enablement whitepaper, and formation of a subteam to address emerging technology threats.

The next RSTC meeting will be held in San Diego CA on March 12-14, 2024.

AGENDA

MRO Representatives on NERC Subgroups – Written Reports

NERC Security Integration and Technology Enablement Subcommittee (SITES)

Alan Kloster, NERC SITES Representative

Action

Information

Report

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- b) New Tech Enablement whitepaper
- c) Risk-Based Physical and Cybersecurity Threats and Their Impacts to BPS Reliability and Resilience

Accomplishments

- 1. None

Challenges

- 1. None at this time.

Future Meetings

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January 21, 2025	12:00-2:00 p.m. Eastern	Virtual - Webex



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NERC SITES Update

Alan Kloster
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NERC Sites Update

- The NERC Security Innovation and Technology Enablement Subcommittee (SITES) [BES Ops in the Cloud](#) whitepaper was approved last September by the RSTC and has been released to the public.
- SITES has posted an initial draft of their *New Tech Enablement and Field Testing* white paper to SITES members for review and comment. The initial recommendation is for development of a program where Regional Entities coordinate with entities to conduct field trials of new technology.
- SITES plans to send out a survey in early February to get feedback on their work plan for 2024 that will inform future activities.



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Outreach Update

Cris Zimmerman, Manager of Outreach and Stakeholder Engagement, MRO

Action

Discussion

Report

Cris Zimmerman, MRO Manager of Outreach and Stakeholder Engagement, will provide an oral report during the meeting.

- a. *2024 Security Conference*
- b. *GridSecCon*



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MRO Q1 SAC Outreach Update

Cris Zimmerman

Manager, Outreach & Stakeholder Engagement

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MRO & Security Upcoming Events

- **Feb 29th 10 – 11am Defending Against Ransomware – CISA**
 - Looking for additional topics for Security Webinars (6 weeks lead time)
- **Oct 1st – 2nd 2024 Hybrid Security Conference (2 half days)**
 - Oct 1st Noon – 4:30 & Oct 2nd 8-11:30am
 - Location – MRO offices St. Paul, MN
- **Security Hybrid Conference Deadlines**
 - June 5th - Send out Save the Date (High Level Agenda Needed)
 - July 29th - Agenda & Speakers confirmed by
 - July 31st - Registration Opens
 - Sept 26th - Dry Run



2024 NERC E-ISAC GridSecCon

- **MRO Co-Hosting in Mpls at Hyatt Regency Oct 22nd- 25th**
- **Call for Abstracts March 4th – April 5th**
 - Vendors, Presenters, Panel Discussions
- **Tours & Security Briefings Friday Oct 25th**



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Planning, Action Items & Due Dates

- February – Form Security Conference Planning Committee
- March 4th – April 5th GridSecCon Call for Abstracts Due
- June 5th – Send out Save the Date for Hybrid Sec Con
- July 29th – Finalize Agenda & Speakers for Hybrid Sec Con
- July 31st – Open Registration for Hybrid Sec Con
- Dry Run Sept 26th – Hybrid Sec Con





2025 Security Conference Dates
Steen Fjalstad, Director of Security, MRO

Action

Discussion

Report

Steen Fjalstad will lead this discussion during the meeting.

SAC Role Definition
Steen Fjalstad, Director of Security, MRO

Action

Discussion

Report

Steen Fjalstad will lead this discussion during the meeting.

SAC Member Engagement Survey
Ian Anderson, MRO SAC Chair

Action

Discussion

Report

Chair Anderson will lead this discussion during the meeting.

SAC 2024 Work Plan
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 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.