



MIDWEST  
RELIABILITY  
ORGANIZATION

# Meeting Agenda

## Security Advisory Council (SAC)

**February 22, 2023**  
**9:00 am to 3:00 pm central**

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

## **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.**

## MRO ORGANIZATIONAL GROUP GUIDING PRINCIPLES

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. Make every attempt to attend all meetings in person or via webinar.
2. Be responsive to requests, action items, and deadlines.
3. Be active and involved in all organizational group meetings by reviewing all pre-meeting materials and being focused and engaged during the meeting.
4. Be self-motivating, focusing on outcomes during meetings and implementing work plans to benefit MRO and MRO's registered entities.
5. Ensure that the organizational group supports MRO strategic initiatives in current and planned tasks.
6. Be supportive of Highly Effective Reliability Organization (HEROTM) principles.
7. Be supportive of proactive initiatives that improve effectiveness and efficiency for MRO and MRO's registered entities.

## MRO SECURITY ADVISORY COUNCIL Q1 MEETING AGENDA

### Agenda Item

- 1 Call to Order and Determination of Quorum**  
*Brett Lawler, MRO SAC Vice Chair*
  - a. Determination of Quorum and Introductions
  - b. Robert's Rules of Order
- 2 Standards of Conduct and Antitrust Guidelines**  
*Steen Fjalstad, Director of Security, MRO*
- 3 MRO Council Governance and Advisory Council Logistics**  
*Steen Fjalstad, Director of Security, MRO*
- 4 MRO Regional Risk Assessment (RRA)**  
*Mark Tiemeier, Principal Technical Advisor, MRO*
- 5 MRO SACTF Update**  
*Brett Lawler, MRO SACTF Chair*
  - a. MRO SACTF Threat Call and Annual Statistics
  - b. MRO SACTF Work Plan
  - c. MRO SACTF Open Source Information Sharing Document
  - d. Future of the SACTF

### Break – 10:30 a.m.

- 6 MRO Representatives on NERC Subgroups - Written Reports**  
*Steen Fjalstad, Director of Security, MRO*
  - a. NERC Supply Chain Working Group (SCWG) – Tony Eddleman, NERC SCWG Representative
  - b. NERC Security Integration and Technology Enablement Subcommittee (SITES) – Alan Kloster, NERC SITES Representative
- 7 Project Updates**  
*Ian Anderson, MRO SAC Chair*
  - a. 2022 SAC Accomplishments
  - b. 2022 SAC and SACTF Survey Results

### Lunch 12:00 p.m.

- 8 SAC Draft 2023 Work Plan**  
*Ian Anderson, MRO SAC Chair*
- 9 Action Item Review**  
*Margaret Eastman, Security Administrator, MRO*
- 10 Other Business and Adjourn**  
*Ian Anderson, MRO SAC Chair*

## AGENDA

### Call to Order and Determination of Quorum

a. Determination of Quorum

**Brett Lawler, MRO SAC Vice Chair**

Name	Role	Company	Term
<b>Brett Lawler</b>	<b>Vice Chair</b>	Xcel Energy	12/31/23
Chad Wasinger	Member	Sunflower Electric Power Corporation	12/31/23
Clayton Whitacre	Member	Great River Energy	12/31/25
Daniel Graham	Member	Basin Electric Power Cooperative	12/31/24
Douglas Peterchuck	Member	Omaha Public Power District	12/31/24
<b>Ian Anderson</b>	<b>Chair</b>	OGE Energy Corp.	12/31/25
Jason Nations	Member	Oklahoma Gas and Electric	12/31/24
Justin Haar	Member	Minnkota Power Cooperative	12/31/23
Matthew Szyda	Member	Manitoba Hydro	12/31/23
Michael Meason	Member	Western Farmers Electric Cooperative	12/31/23
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

## AGENDA

### Call to Order and Determination of Quorum

b. Robert's Rules of Order  
**Brett Lawler, MRO SAC Vice 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.

## MEETING AGENDA – Security Advisory Council – February 22, 2023

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
	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.

## MEETING AGENDA – Security Advisory Council – February 22, 2023

### 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

**AGENDA**

**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.

## MEETING AGENDA – Security Advisory Council – February 22, 2023

### AGENDA

#### **MRO Council Governance and Advisory Council Logistics** *Steen Fjalstad, Director of Security, MRO*

#### **Action**

Information

#### **Report**

Steen Fjalstad will lead this discussion during the meeting.

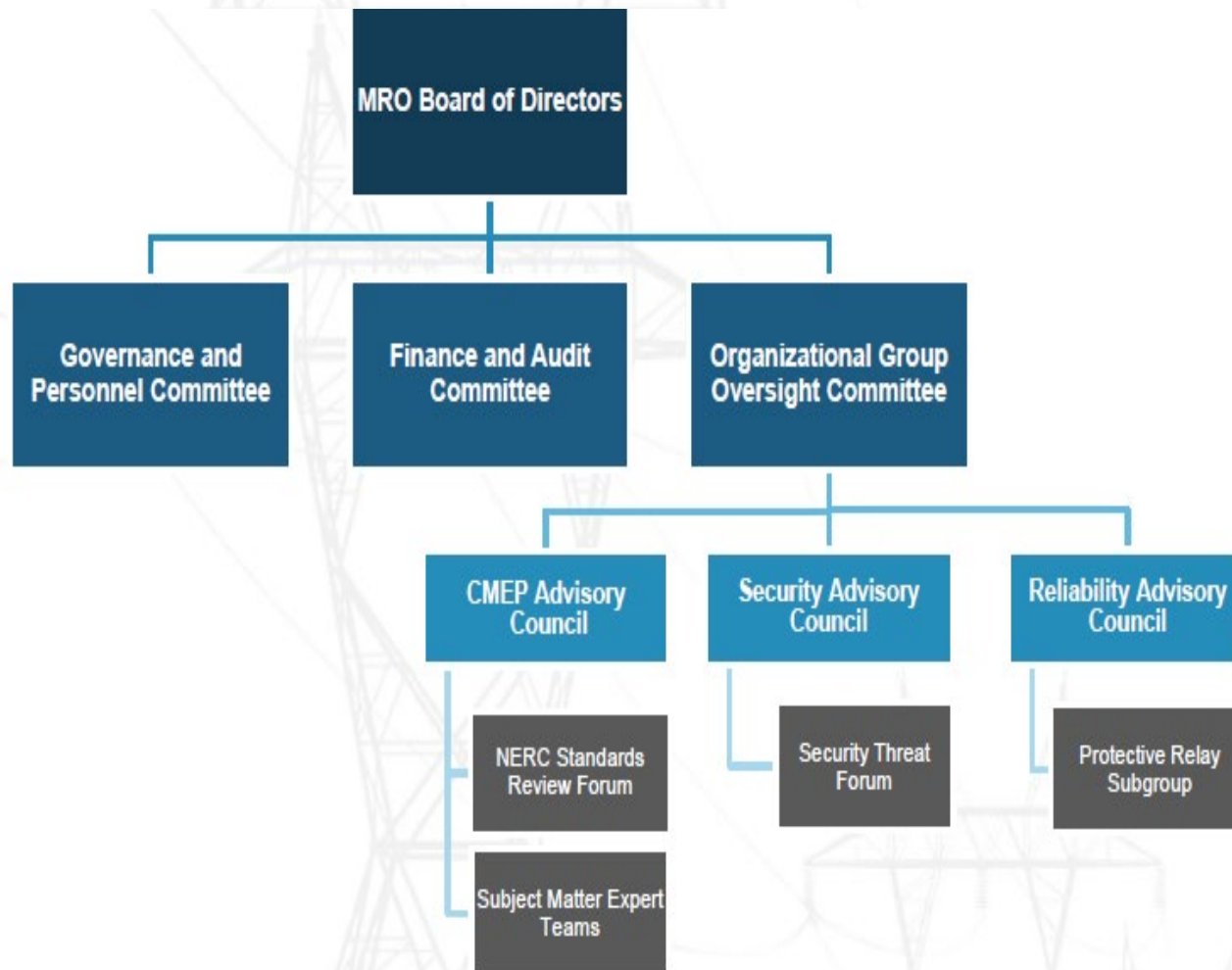


MIDWEST  
RELIABILITY  
ORGANIZATION

# Midwest Reliability Organization

## New Member Welcome Presentation

# Advisory Council Structure



# 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 Roster (Proposed)

Member	Term End	Company
JoAnn Thompson, Chair	12/31/23	Otter Tail Power Company
Daryl Maxwell, Vice Chair	12/31/23	Manitoba Hydro
Iqbal Dhani	12/31/24	Saskatchewan Power Corporation
Kerri Glitch	12/31/24	MISO
Charles Marshall	12/31/23	ITC Holdings
Maurice Moss	12/31/23	Kansas City Board of Public Utilities
Darcy Neigum	12/31/23	Montana-Dakota Utilities
Ben Porath	12/31/24	Dairyland Power Cooperative
Eric Schmitt	12/31/24	Independent Director
Dehn Stevens	12/31/23	MidAmerican Energy Company
Jeanne Tisinger	12/31/24	Independent Director



# 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. Make every attempt to attend all meetings in person or via webinar.
  2. Be responsive to requests, action items, and deadlines.
  3. Be active and involved in all organizational group meetings by reviewing all pre-meeting materials and being focused and engaged during the meeting.
  4. Be self-motivating, focusing on outcomes during meetings and implementing work plans to benefit MRO and MRO's registered entities.
  5. Ensure that the organizational group supports MRO strategic initiatives in current and planned tasks.
  6. Be supportive of Highly Effective Reliability Organization (HERO™) principles.
  7. Be supportive of proactive initiatives that improve effectiveness and efficiency for MRO and MRO's registered entities.



# 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
<b>Brett Lawler, Vice Chair</b>	12/31/23	Xcel Energy
Chad Wasinger	12/31/23	Sunflower Electric Power Cooperation
Clayton Whitacre	12/31/25	Great River Energy
Daniel Graham	12/31/24	Basin Electric Power Cooperative
Douglas Peterchuck	12/31/24	Omaha Public Power District
<b>Ian Anderson, Chair</b>	12/31/25	OGE Energy Corp.
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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 7<sup>th</sup> 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 22, 2023
Quarter 2	May 24, 2023
Quarter 3	August 8, 2023
Security Conference	September 27-28, 2023
Quarter 4	October 12, 2023

# Guidelines for Meetings

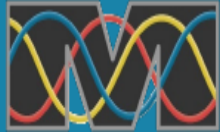
- **Meeting Agendas:**

- 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 2023 Work Plan

Column	Work Item	Source	Activity	Timing	Responsible Party	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 2023 for the Midwest Reliability Matters
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 4 webinars in 2023
3	Security Conference	Charter	MRO Security Conference (1 Day)	Qtr. 4	SAC Members	OGOC	Work Plan	Open	September 27-28, 2023 OKC
4	Security Conference	Charter	MRO Security Training (1 Day)	Qtr. 4	SAC Members	OGOC	Work Plan	Open	September 27-28, 2023 OKC
5	Regional Security Risk Assessment	Charter	Support the development of the annual MRO Regional Security Risk Assessment by identifying risks, trends, and mitigating activities.	Qtr 2	SAC Members	OGOC	Work Plan	Open	MRO SAC will complete a Regional Security Risk Assessment. Phased deployment of the Regional Security Risk Assessment in Q. 1-4).
6	Stakeholder Survey	Charter	Survey stakeholders to determine effectiveness of SAC outreach.	Annually	MRO Staff	OGOC	Work Plan	Open	MRO SAC will send out a survey, facilitated by MRO, to the MRO SAC-Plus list to determine effectiveness of SAC outreach
7	Roundtables	SAC Goal	Host SAC Roundtables to have more in-depth discussions on important topics happening in the bulk power system.	Periodically	SAC Members	OGOC	Work Plan	Open	Host at least 1-2 roundtables in 2023
8	Industry Briefings	SAC Goal	Host a briefing from government / industry partners.	Periodically	SAC Members	OGOC	Work Plan	Open	
9	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	Members of the SAC group to help with the Regional Risk Assessment Risk Matrix must have helped or will help with the Regional Security Risk Assessment



# 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

## 2023 Roster

Member	Company	Term End
Brett Lawler, Chair	Xcel Energy	12/31/25
David Johnson	Oklahoma Gas and Electric	12/31/23
OPEN	N/A	12/31/24
OPEN	N/A	12/31/25
OPEN	N/A	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 15, 2023
Quarter 2	May 17, 2023
Quarter 3	August 2, 2023
Quarter 4	October 4, 2023

# Important Links

SAC mailing list: [mrosac@mro.net](mailto:mrosac@mro.net) Please be sure to whitelist

SAC plus guests mailing list: [mrosac-plus@mro.net](mailto: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](mailto:Steen.Fjalstad@mro.net)

## **MRO SAC Support Staff**

**Lee Felter, PE**

Principal Security Engineer

Phone: 651-256-5170

[Lee.Felter@mro.net](mailto:Lee.Felter@mro.net)

## **MRO Support Staff**

**Margaret Eastman**

Security Administrator

Phone: 651-855-1755

[Margaret.Eastman@mro.net](mailto:Margaret.Eastman@mro.net)



2023

## JANUARY

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## IMPORTANT DATES

January 18	Q1 SACTF Short Agenda Posted
January 25	Q1 SAC Short Agenda Posted
February 8	Q1 SACTF Packet Posted
February 15	Q1 SACTF Meeting
February 15	Q1 SAC Packet Posted
February 21	Q1 CMEPAC Meeting
February 22	Q1 SAC Meeting
February 22	Q1 SACTF Meeting minutes to Steen
March 1	Q1 Meeting minutes to SACTF
March 1	Q1 SAC Meeting minutes to Steen
March 1	Q1 RAC Meeting
March 8	Q1 Meeting minutes to SAC
March 14	Q1 PRS Meeting
March 21-22	Q1 RAM Conference (Hybrid)
April 12	Q1 OGOC Meeting
April 13	Q1 BOD Meeting
April 20	Q2 SACTF short agenda posted
April 27	Q2 SAC short agenda posted
April 29 - May 3	NERC CMEP Training
May 10	Q2 SACTF packet posted
May 16-17	Q2 Reliability Conference (Hybrid)
May 17	Q2 SACTF Meeting
May 17	Q2 SAC packet posted
May 18	Q2 RAC Meeting
May 24	Q2 SAC Meeting
May 24	Q2 SACTF meeting minutes to Steen
May 31	Q2 SAC meeting minutes to Steen
May 31	Q2 SACTF meeting minutes to SACTF
May 31	Q2 CMEPAC Meeting
June 7	Q2 SAC minutes to SAC
June 14	Q2 OGOC Meeting
June 15	Q2 BOD Meeting
June 27	Q2 PRS Meeting
July 5	Q3 SACTF short agenda posted
July 11	Q3 SAC short agenda posted
July 18-20	NERC CCC Meetings (hosted at MRO)
July 25-26	Q3 CMEPAC Conference (Hybrid)
July 26	Q3 SACTF packet posted
August 1	Q3 SAC packet posted
August 2	Q3 SACTF Meeting
August 8	Q3 SAC Meeting
August 9	Q3 SACTF minutes to Steen
August 9	Q3 CMEPAC Meeting
August 10	Q3 RAC Meeting
August 15	Q3 SAC minutes to Steen
August 16	Q3 SACTF minutes to SACTF
August 23	Q3 SAC minutes to SAC
September 6	Q3 PRS Meeting
September 6	Q4 SACTF short agenda posted
September 13	Q4 SAC short agenda posted
September 13	Q3 OGOC Meeting
September 14	Q3 BOD Meeting
September 26	Q3 Security Conference (Oklahoma City) - Networking Event
September 27	Q3 Security Conference (Oklahoma City)
September 27	Q4 SACTF packet posted
September 28	Q3 Security Conference Training (Oklahoma City)
October 4	Q4 SACTF Meeting
October 5	Q4 SAC packet posted
October 11	Q4 SACTF minutes to Steen
October 12	Q4 SAC Meeting
October 18	Q4 SACTF minutes to SACTF
October 19	Q4 SAC minutes to Steen
October 19	Q4 CMEPAC Meeting
October 26	Q4 SAC minutes to SAC
November 7-9	MIPSYCON
November 9	Q4 RAC Meeting
November 15	Q4 OGOC Meeting
November 16	Q4 BOD Meeting
December 5	Q4 PRS Meeting

	Newsletters
	SACTF Meetings
	SAC Meetings
	OGOC Reports
	MRO BOD Meetings
	Technical Training/Conference/Security Regional Risk Assessment
	Other Council Meetings

## MEETING AGENDA – Security Advisory Council – February 22, 2023

### AGENDA

#### **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.



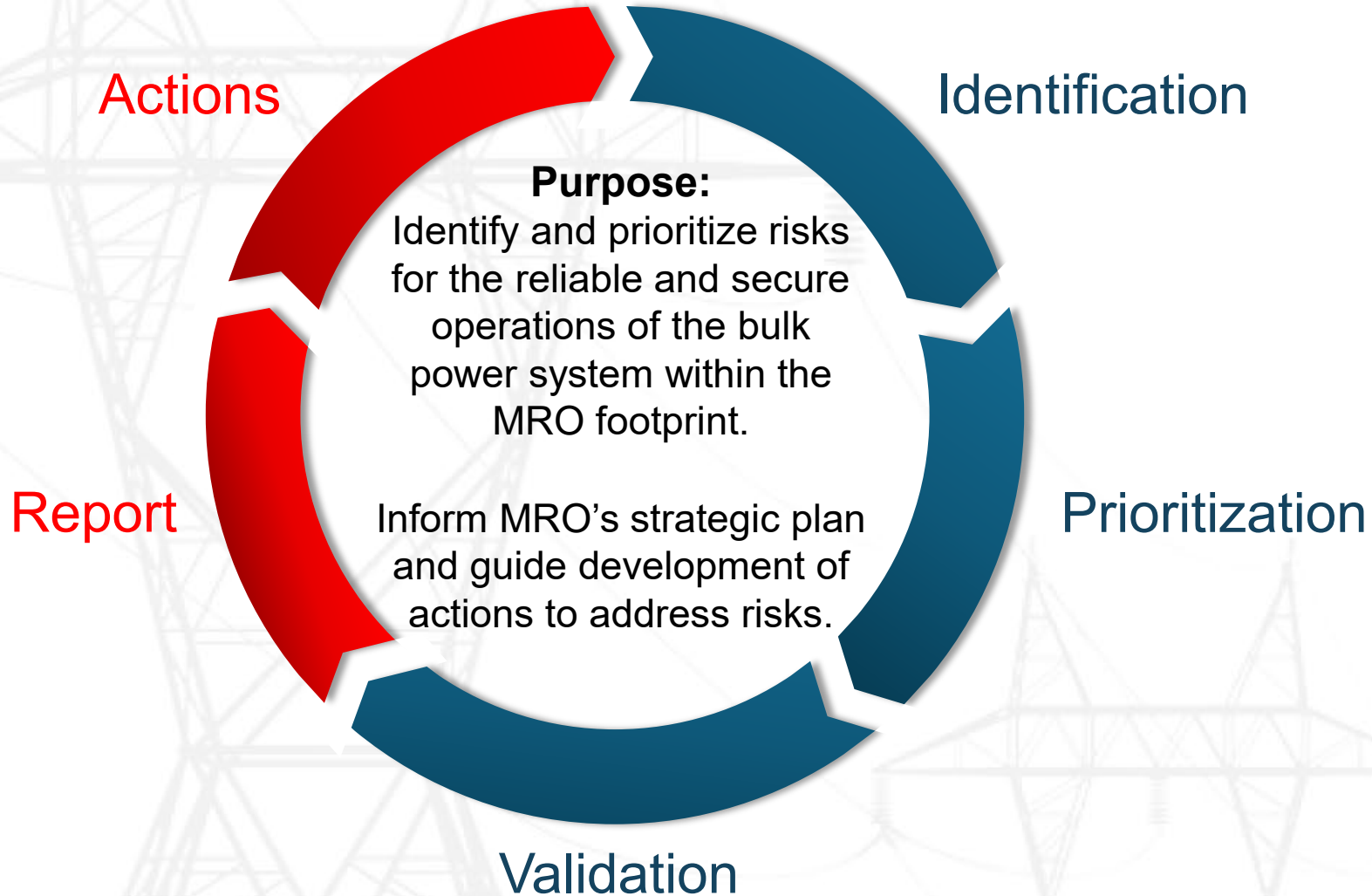
MIDWEST  
RELIABILITY  
ORGANIZATION

# MRO 2023 Regional Risk Assessment

**Mark Tiemeier**

Principal Technical Advisor

# Regional Risk Assessment Process

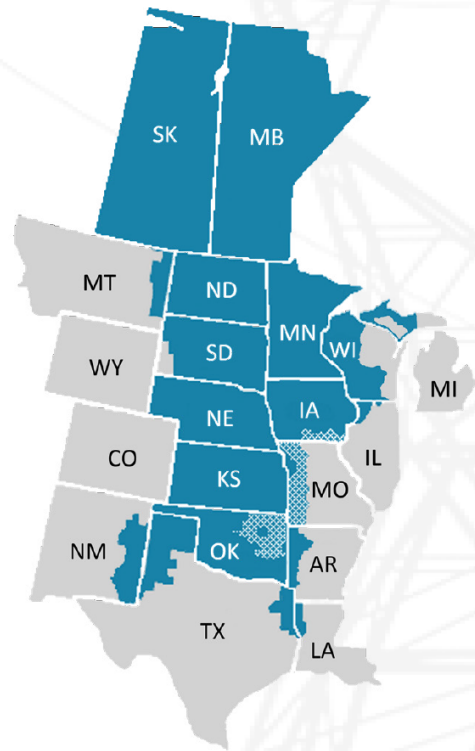




# MRO 2023 Regional Risk Assessment

Top risks to the reliable and secure operation of the North American bulk power system in MRO's regional footprint.

## Territory



## About Us

As part of the [ERO Enterprise](#), MRO is committed to a shared mission to identify, prioritize and assure effective and efficient mitigation of risks to the reliability and security of the North American bulk power system in its regional footprint.

Read more at [www.MRO.net](http://www.MRO.net)

## MRO Reliability Risk Matrix: Risk Rankings

Consequence / Impact (C)		Likelihood (L)					
		L1	L2	L3	L4	L5	
		Very Unlikely	Unlikely	Possible	Likely	Almost Certain	
C5	Severe						
C4	Major				4,5,6,16		
C3	Moderate		2	9,12,13	1		
C2	Minor			3,7,8,10,14,17	15		
C1	Negligible			11			

Top risks are reflected in orange above and described below. A full list of risks assessed can be found in the final report.

## Key Findings: Top Reliability and Security Risks in MRO's Territory

Model Assumptions	Planning Reserves	Energy Reliability	Generation Unavailability	Transmission Line Ratings	Insider Threats	Malware/Ransomware	Supply Chain Compromise
<b>RISK 1.</b> Assumptions used in bulk power models to plan and operate the grid have not accounted for the rapid increase in inverter-based and distributed energy resources, challenging industry's ability to accurately assess current and future system characteristics.	<b>RISK 4.</b> Traditional methods to calculate Planning Reserve Margin are inadequate to properly plan for the generation capacity needed to meet increasingly uncertain system operations, especially during extreme weather events.	<b>RISK 5.</b> Increased uncertainty from changing energy supply and customer demand challenge the grid's ability to meet load for all hours of the year. There is no comprehensive planning that assesses assurance of available energy and fuel sources over all time periods to maintain grid reliability.	<b>RISK 6.</b> Generation availability assumed during cold weather, particularly in the southern U.S., has been shown to be unrealistically high due to a lack of generation winterization and natural gas curtailments.	<b>RISK 12.</b> Use of constant overhead transmission line ratings year-round (non-seasonal) limits available transmission capacity and leads to inefficient real-time decisions when system conditions deviate from assumptions that drive rating calculations, such as cooler temperatures or during emergency operations.	<b>RISK 9.</b> Employees or contractors using their knowledge and authorized access of critical systems to do harm to the bulk power system is a continued, substantial threat to organizations and the reliability of the grid.	<b>RISK 13.</b> Phishing attacks can introduce malware or ransomware to corporate IT systems, which can impact critical systems necessary for reliable bulk power system operations through direct or in-direct connections those systems have to IT networks.	<b>RISK 16.</b> A cyber security event carried out through the vendor supply chain can broadly impact bulk power system reliability, especially where the vendor is a market leader providing systems used for system operation.

## Assessment Overview

- Extreme weather, consumer demand, and changes in technology and generation resources continue to present a rapidly increasing number of challenges to grid planners and operators. Physical and cyber security risks also continue to evolve at an unprecedented pace.
- MRO's annual *Regional Risk Assessment* considers continent-wide risks to reliability and security of the North American bulk power system and determines which are more likely to occur and would have a higher impact in MRO's region.
- This report is focused on risk identification, prioritization and mitigation and highlights for industry the priorities needed to collaboratively address these challenges. It also serves to inform key decision makers of challenges the industry faces and the policies and regulations that will help define a variety of proposed solutions.

READ MRO'S [2023 REGIONAL RISK ASSESSMENT](#)



CLARITY

ASSURANCE

RESULTS

# Insider Threat

- Insiders knowledge and access to systems
- Remote access & work from home risks
- Behavioral indicators

Consequence / Impact ( C )		Likelihood ( L )		
		L2	L3	L4
		Unlikely	Possible	Likely
C4	Major			
C3	Moderate		2021, 2022, 2023	
C2	Minor			



# Phishing / Malware / Ransomware

- Pervasive to all systems
- Exposes internal controls
  - Security awareness
  - IT/OT convergence
  - Network segmentation
  - Preparedness

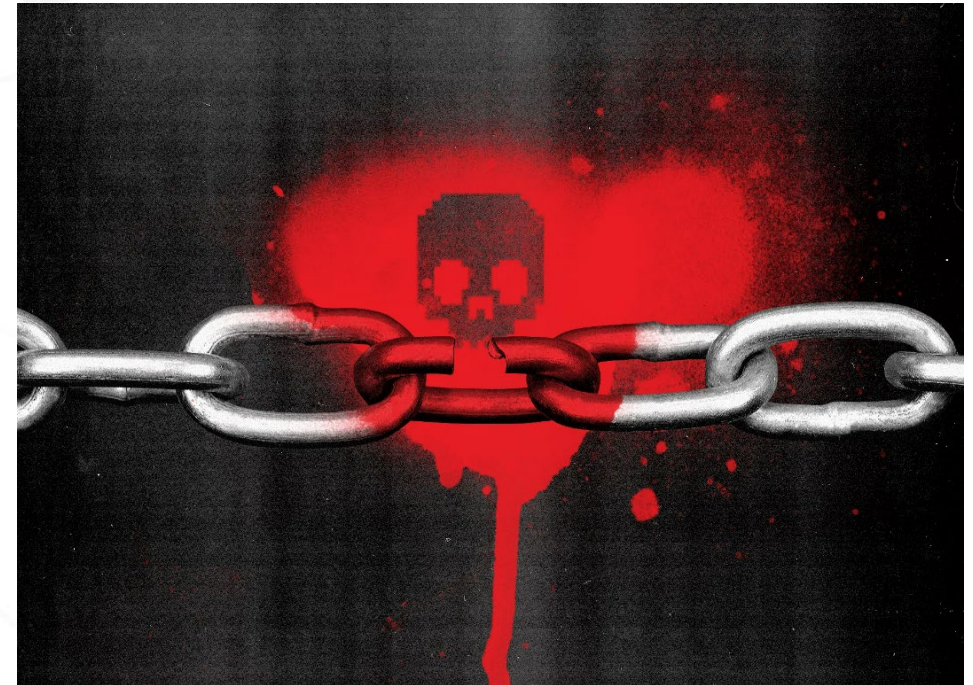
Consequence / Impact ( C )		Likelihood ( L )		
		L2	L3	L4
		Unlikely	Possible	Likely
C4	Major			
C3	Moderate		2022, 2023	
C2	Minor			



# Supply Chain Compromise

- **Broad threat impact**
- **People**
  - Access (OEM, vendors)
- **Process**
  - Patch management, vendor assessment
- **Technology**
  - Hardware, software, sub-components

Consequence / Impact ( C )		Likelihood ( L )		
		L2	L3	L4
		Unlikely	Possible	Likely
C4	Major		2021	2022, 2023
C3	Moderate			
C2	Minor			



# Compromise of Sensitive Information

- Grid specific data
  - Operational diagrams
  - Security diagrams
  - User credentials
- Information enables targeted attacks
- Strong data security practices difficult to manage

Consequence / Impact ( C )		Likelihood (L)		
		L2	L3	L4
		Unlikely	Possible	Likely
C4	Major			
C3	Moderate			
C2	Minor		2023	



# Increased Penetration of Internet Connected Devices

- Provide data for system operations
- Highly distributed attack surface
- Not applicable to CIP Standards

Consequence / Impact ( C )		Likelihood ( L )		
		L2	L3	L4
		Unlikely	Possible	Likely
C4	Major			
C3	Moderate			
C2	Minor		2023	



# Physical Security Protections from Incidents

- Surveillance
  - Perimeter
  - Dispersed facilities
- Access Restriction

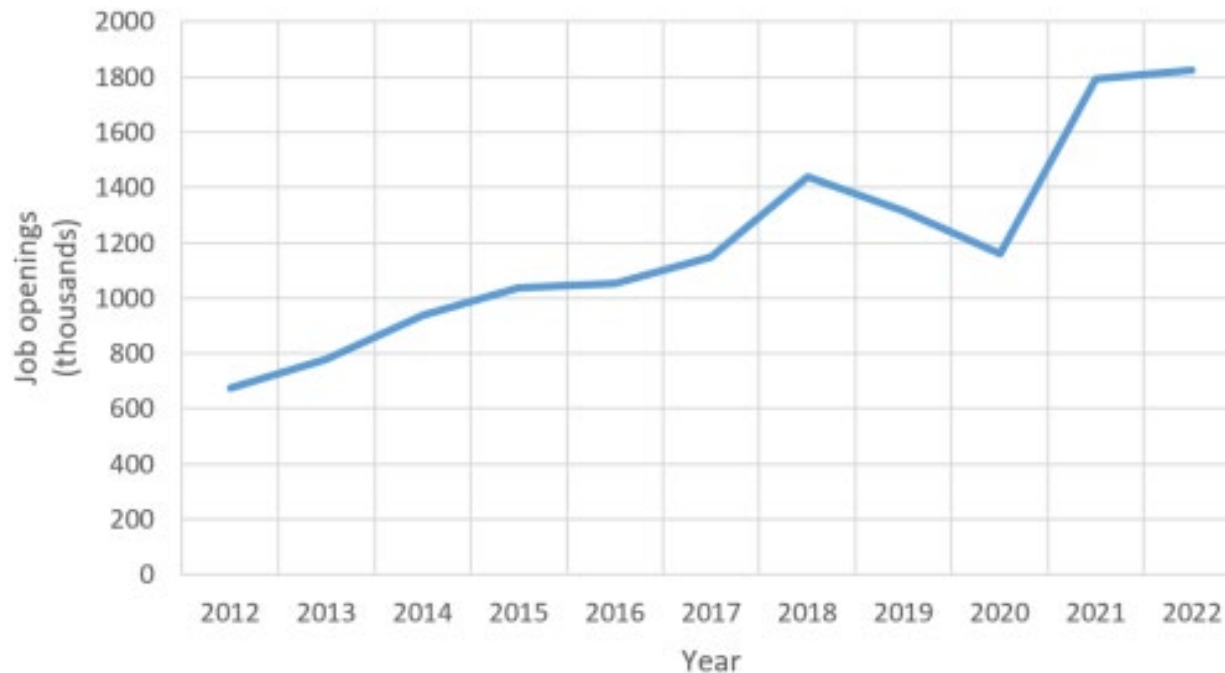
Consequence / Impact ( C )		Likelihood ( L )		
		L2	L3	L4
		Unlikely	Possible	Likely
C4	Major			
C3	Moderate			
C2	Minor		2022, 2023	



# Tightening Supply of Expert Labor

Consequence / Impact ( C )		Likelihood ( L )		
		L2	L3	L4
		Unlikely	Possible	Likely
C4	Major			
C3	Moderate			
C2	Minor		2021, 2022	2023

Trade, Transportation, and Utilities Job Openings



\* U.S. Bureau of Labor Statistics

## Employer Demand for Cybersecurity Workers Outpaces Supply



## Existing cybersecurity workers to job postings



## vs. national average across all jobs



\* Graphic from [www.cyberseek.org](http://www.cyberseek.org)

# Vulnerabilities of Unpatched Systems

- Causes of unpatched systems

- Unavailability
- Inability
- Lack of awareness

- Exploit of known vulnerability

Consequence / Impact ( C )		Likelihood ( L )		
		L2	L3	L4
		Unlikely	Possible	Likely
C4	Major			
C3	Moderate			
C2	Minor		2021, 2022, 2023	





# Questions

## AGENDA

### MRO SACTF Update

- a. MRO SACTF Threat Call Statistics and Annual Statistics  
**Brett Lawler, MRO SACTF Chair**

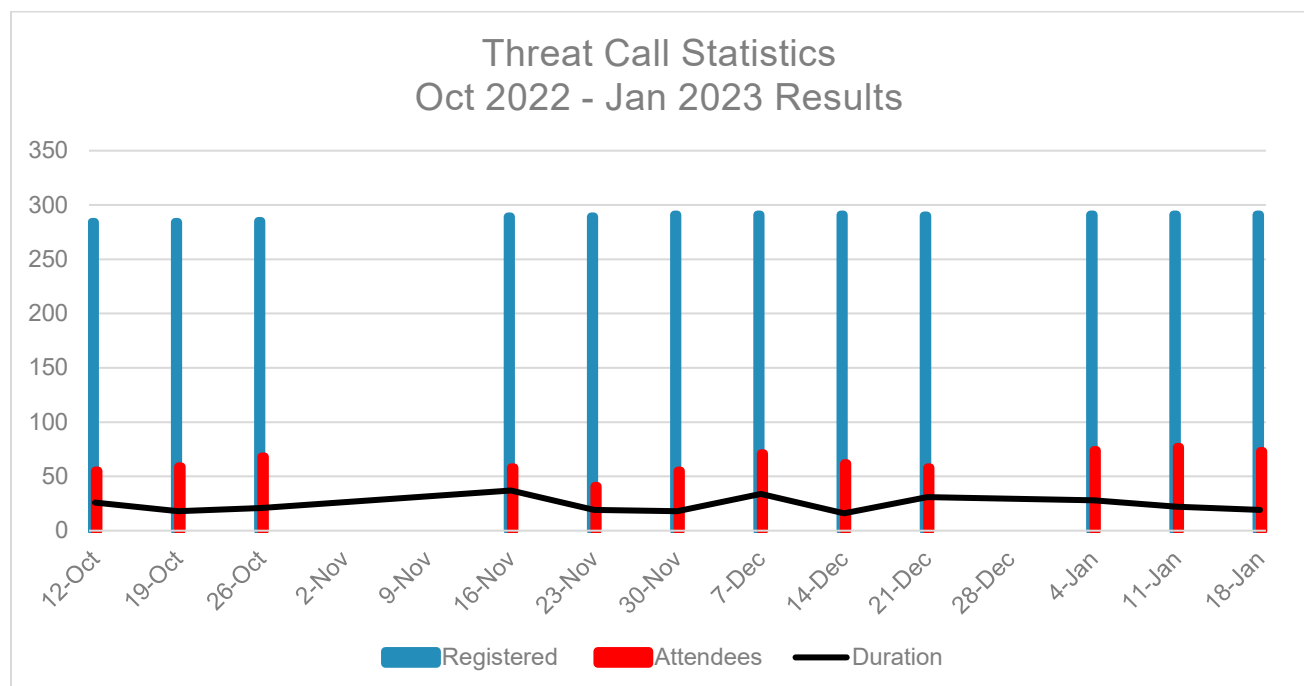
## Action

Information

## Report

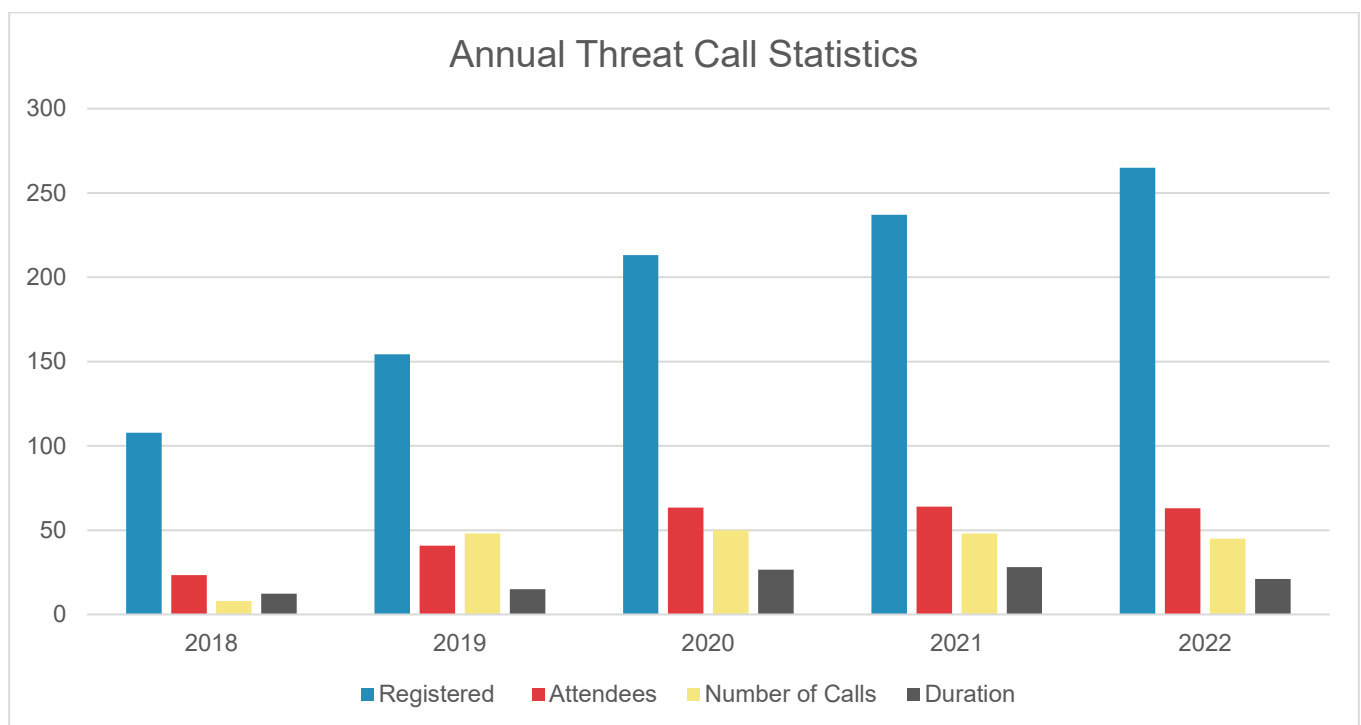
### Threat Call

Date	Approved Registrants	Duration	Attendees
October 12, 2022	284	26	55
October 19, 2022	284	18	59
October 26, 2022	285	21	68
November 16, 2022	289	37	58
November 23, 2022	289	19	41
November 30, 2022	291	18	55
December 7, 2022	291	34	71
December 14, 2022	291	16	62
December 21, 2022	290	31	58
January 4, 2023	291	28	74
January 11, 2023	291	22	77
January 18, 2023	291	19	73
<b>Averages</b>	<b>289</b>	<b>24 Minutes</b>	<b>63</b>



**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



## AGENDA

### MRO SACTF Update

b. MRO SACTF Work Plan

*Brett Lawler, MRO SACTF Chair*

### Action

Information

### Report

SACTF Chair, Brett Lawler will lead this discussion during the meeting.

## AGENDA

### MRO SACTF Update

- c. MRO SACTF Open Source Information Sharing Document  
*Brett Lawler, MRO SACTF Chair*

### Action

Information

### Report

SACTF Chair, Brett Lawler will lead this discussion during the meeting.



**TLP: CLEAR**

Date: 09/28/2022

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Recipients may share TLP: **CLEAR (disclosure is not limited)**, information without restriction. Information is subject to standard copyright rules.

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*This Security Advisory Council Threat Forum (SACTF) Open Source Information Sharing document provides information shared during a meeting of the SACTF, including links to external sites. Information and links shared during a SACTF meeting and compiled within this document may be shared pursuant to the traffic light protocol (TLP) above.*

*MRO is not responsible for the information shared during the meeting, or the content or availability of external sites. You should conduct your own due diligence regarding the trustworthiness of the external sources. When accessing links to external sites, you may be subject to the privacy policy, and terms and conditions of the destination site. The views expressed in the information shared within this document, and at the external sites does not necessarily reflect the opinions and views of MRO.*

*The information within this document is a summary of open source information identified on the weekly SACTF call. For more in-depth information, please [register](#) for the weekly SACTF Threat Call.*

### **MRO SAC Threat Forum (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. For more information on the MRO SACTF, click [here](#).

### **EU vows to protect energy systems after 'sabotage' on Russian gas pipelines**

<https://www.reuters.com/business/energy/mystery-gas-leaks-hit-major-russian-undersea-gas-pipelines-europe-2022-09-27/>

### **Bank of England launches bond-buying programme to prevent 'material risk' to UK financial stability**

<https://news.sky.com/story/bank-of-england-takes-action-to-restore-orderly-market-conditions-after-mini-budget-panic-12706827>

### **Canada Is Removing Strict Covid-19 Restrictions for Travelers**

<https://www.nytimes.com/2022/09/26/world/canada/canada-border-covid-restrictions-removed.html>

## MEETING AGENDA – Security Advisory Council – February 22, 2023

### AGENDA

#### MRO SACTF Update

d. Future of the SACTF

*Brett Lawler, MRO SACTF Chair*

#### Action

Information

#### Report

SACTF Chair, Brett Lawler will lead this discussion during the meeting.

## AGENDA

### MRO Representatives on NERC Subgroups – Written Reports

- a. NERC Supply Chain Working Group (SCWG)  
*Tony Eddleman, NERC SCWG Representative*

#### Action

Information

#### Report

The SCWG reports to the NERC Reliability and Security Technical Committee (RSTC). SCWG meets monthly on the third Monday of each month at 12:00 p.m. (central time), except for the months of January, February, and June. Due to holidays in January and February, SCWG met on the second Monday of each month. The June 2023 meeting has not been rescheduled yet. The March 2023 SCWG meeting will be a hybrid meeting with an in-person option at the Sheraton Sand Key Resort, Clearwater, Florida. The meeting will be held from 8:00 – 9:45 a.m. eastern with also a virtual option using WebEx.

1. SCWG is requesting an entity volunteer to fill the role of Chair.
2. SCWG presented three Security Guidelines at the December 2022 NERC RSTC meeting for approval and these Security Guidelines were approved:

#### 1) Supply Chain and Risk Considerations for Open Source Software

- a) Team Lead: George Masters, Schweitzer Engineering Laboratory, Inc.

#### 2) Secure Equipment Delivery

- a) Team Lead: Wally Magda, WallyDotBiz LLC

#### 3) Supply Chain Cyber Security Risk Management Lifecycle

- a) Team Lead: Tom Alrich, Tom Alrich LLC

These Security Guidelines are available on the NERC SCWG website: [Supply Chain Working Group \(SCWG\) \(nerc.com\)](https://www.nerc.com/scwg)

3. SCWG is preparing two Security Guidelines for approval at the March NERC RSTC meeting:

#### 1) Supply Chain Security Guidelines on Provenance

- a) Team Lead: David Steven Jacoby, Boston Strategies International  
b) Posted for Comments: September 29 – November 11

#### 2) Vendor Risk Management Lifecycle

- a) Team Lead: Tom Alrich, Tom Alrich LLC  
b) Posted for Comments: September 19 – November 3

SCWG is preparing three Security Guidelines for posting for public comments and is planning to request approval at the June RSTC meeting:

**1) Vendor Identified Incident Response Measures**

- a) Team Lead: Wally Magda, WallyDotBiz LLC (SCWG Vice-Chair)

**2) Supply Chain Risks Related to Cloud Service Providers**

- a) Team Lead: Matt Szyda, Manitoba Hydro

**3) Procurement Language**

- a) Team Lead: Shari Gribbin, CNK Solutions

SCWG encourages volunteers to participate on these teams. These teams have already met at least once.

5. SCWG is starting work on a new Security Guideline:

**1) Sourcing Issues with Supply Chain Procurements**

- a) Team Lead: Tobias Whitney, Fortress Information Security

SCWG encourages volunteers to participate on this team. This team has already met once.

**Areas of Focus**

1. Maintain a roster of technical cyber and operations security experts.
2. Identify known supply chain risks and address through guidance documentation or other appropriate vehicles including input to NERC Alerts or the E-ISAC advisories.
3. Partner with National Laboratories to identify vulnerabilities in legacy equipment and develop mitigation practices.
4. Assist NERC staff by providing input and feedback associated with the development and execution of supply chain documents.
5. Coordinate with the North American Transmission Forum (NATF) and other industry groups as appropriate to ensure bulk power system (BPS) asset owner supply chain security requirements are clearly articulated.

**Accomplishments**

1. SCWG received NERC RSTC approval for three Security Guidelines, and these have been posted.
2. SCWG has multiple review teams working concurrently.

**Challenges**

1. Continuing to review and post for comments Security Guidelines.
2. Monitoring and staying current on Supply Chain developments in the federal government and industry.

## AGENDA

### MRO Representatives on NERC Subgroups – Written Reports

- b. NERC Security Integration and Technology Enablement Subcommittee (SITES)  
*Alan Kloster, NERC SITES Representative*

#### Action

Information

#### Report

This is an interim report as the NERC SITES committee has not met since December of 2022 after they decided to begin holding quarterly meetings in 2023. The next meeting is scheduled to be a hybrid, in-person/WebEx in Clearwater, Florida, on March 21. They will also be holding a joint in-person only meeting 4-hour in Florida on March 23 with the NERC Security Working Group and Supply Chain Working groups. They are calling it a Security Group Summit. I am planning to attend the in-person only meeting on March 23 and will provide another report after that.

1. Whitepaper on *Cybersecurity for DERs and DER Aggregators* was approved for distribution by the RSTC at their December meetings and subsequently released for publication. The whitepaper can be found on the NERC website here - [https://www.nerc.com/comm/RSTC\\_Reliability\\_Guidelines/White\\_Paper\\_Cybersecurity\\_for%20DERs\\_and\\_DER\\_Aggregators.pdf](https://www.nerc.com/comm/RSTC_Reliability_Guidelines/White_Paper_Cybersecurity_for%20DERs_and_DER_Aggregators.pdf)
2. Whitepaper on *Zero Trust Security for Electric OT* draft was completed by the sub team. The SITES group presented it to the RSTC for comment at their December meeting. The sub team is now working to incorporate the RSTC comments. It appears unlikely that they will make the deadline to get it on the agenda for the Q1 RSTC meeting and will try to get it onto the Q2 RSTC agenda. The whitepaper draft can be found in the December RSTC agenda package here - [https://www.nerc.com/comm/RSTC/AgendaHighlightsandMinutes/RSTC\\_Meeting\\_December\\_7\\_2022\\_Agenda\\_Package\\_ATTENDEE.pdf](https://www.nerc.com/comm/RSTC/AgendaHighlightsandMinutes/RSTC_Meeting_December_7_2022_Agenda_Package_ATTENDEE.pdf)
3. SITES continues to develop the BES Operations in the Cloud whitepaper by incorporating comments after it was sent out to the broader SITES team for review. That comment period is ongoing at this time. The current plan is to review and incorporate comments and present it to the SITES group at the March meeting for further review and comment with the hope to get it to Q2 RSTC meeting for further review or possible endorsement.
4. SITES has held two meetings so far to discuss another whitepaper on their work plan focused on how to facilitate New Technology Enablement. Basically, they are looking at what can be done to improve the uptake of new tech by companies in their NERC CIP BES Cyber System environments. There have been some robust initial discussions on how to proceed with the whitepaper.

## 5. **Areas of Focus**

- a) Vendor presentations on new technology.
- b) Zero Trust whitepaper
- c) BES Operations in the Cloud whitepaper
- d) New Tech Enablement whitepaper

## **Accomplishments**

- 1. None this cycle

## **Challenges**

- 1. None at this time

## **Future Meetings**

Security Integration and Technology Enablement Subcommittee (SITES)

Hybrid In-person and WebEx meeting

March 21 | 1:00 p.m. – 2:45 p.m. Eastern

Security Group Summit (Joint Session with SCWG/SWG/SITES)

In-person only meeting

March 23 | 1:00 p.m. – 5:00 p.m. Eastern

## AGENDA

### Project Updates

- a. 2022 SAC Accomplishments  
*Ian Anderson, MRO SAC Chair*

### Action

Information

### Report

#### SAC Accomplishments

1. The Security Advisory Council (SAC) achieved all objectives in its 2022 work plan and created a draft 2023 work plan.
2. The SAC provided a security briefing to industry at the SAC regional security risk assessment meeting that included Government and Industry intelligence agencies.
3. The SAC hosted 4 webinars in 2022; the webinars that could be recorded are available for replay on Vimeo [here](#). The MRO SAC webinars consisted of attendees from FERC, NERC, E-ISAC, MRO entities/members, other Regional Entities, and vendors. Registration ranged from 100 to about 400 individuals per webinar.
  - a. *MRO Ransomware Playbook Design*, hosted by Michael Meason, SAC Vice Chair, Western Farmers Electric Corporation; Jason Nations, Oklahoma Gas and Electric; and Black & Veatch
  - b. *How to Set Up Combined IT/OT SOC (Implementation)*, hosted by and Laura Liston, Alliant Energy, MRO SAC Member
  - c. *Information Sharing & Public/Private Partnerships*, hosted by Clayton Whitacre, Great River Energy, MRO SAC Chair Tony Eddleman, Nebraska Public Power District, MRO SAC Member
  - d. *Supply Chain Survey/Webinar*, hosted by Tony Eddleman, Nebraska Public Power District, MRO SAC Member and Jason Nations, Oklahoma Gas and Electric, MRO SAC Member
4. MRO hosted the 2022 Hybrid Security Conference and Security Insider Threat Training sponsored by the Security Advisory Council (SAC) at the MRO offices and via Webex on October 4-5, 2022. The conference focused on security awareness and strengthening cyber and physical security through information shared by experts within the security industry, as well as analysis of real-world security lessons and best practices. There were 191 participants in person and 428 virtual attendees over the two-day event.
5. The SAC organized and conducted the 2022 MRO Regional Security Risk Assessment and prepared a report for the Region.
6. The MRO SAC provided 2 newsletter articles:
  - a. Cyber Attack for Ransom by Michael Meason, Western Farmers Electric Corporation, MRO SAC Vice Chair
  - b. Newsletter article on 2022 Security Conference, drafted by Margaret Eastman, MRO Security Administrator.
7. Conducted the annual MRO Security Advisory Council (SAC) and Security Advisory Council Threat Forum (SACTF) Survey.

**SAC Threat Forum Accomplishments**

1. The SACTF held 45 calls through 12/31/22 to facilitate the trusted sharing of threat information. Through the end of 2022, the SACTF Threat Call had about 289 registered individuals, the call lasted on average 21 minutes, and there was an average of 63 participants per call.
2. The SACTF continued to produce an Open Source Sharing Information Document, which they provide to vetted registrants after the call.
3. The SACTF completed its 2022 work plan, and developed a 2023 draft work plan.
4. The SACTF conducted surveys of threat call participants, which gathered feedback. The SACTF reviewed the feedback and altered the call in response to feedback.
5. In April 2022, the SACTF hosted a webinar: The Industrial Control Systems (ICS) / Operational Technology (OT) Year in Review.
6. Identified and provided a speaker for the CMEP Conference on Geopolitical Tensions - Overview.

## AGENDA

### Project Updates

- b. 2022 SAC and SACTF Survey Results  
*Ian Anderson, MRO SAC Chair*

### Action

Information

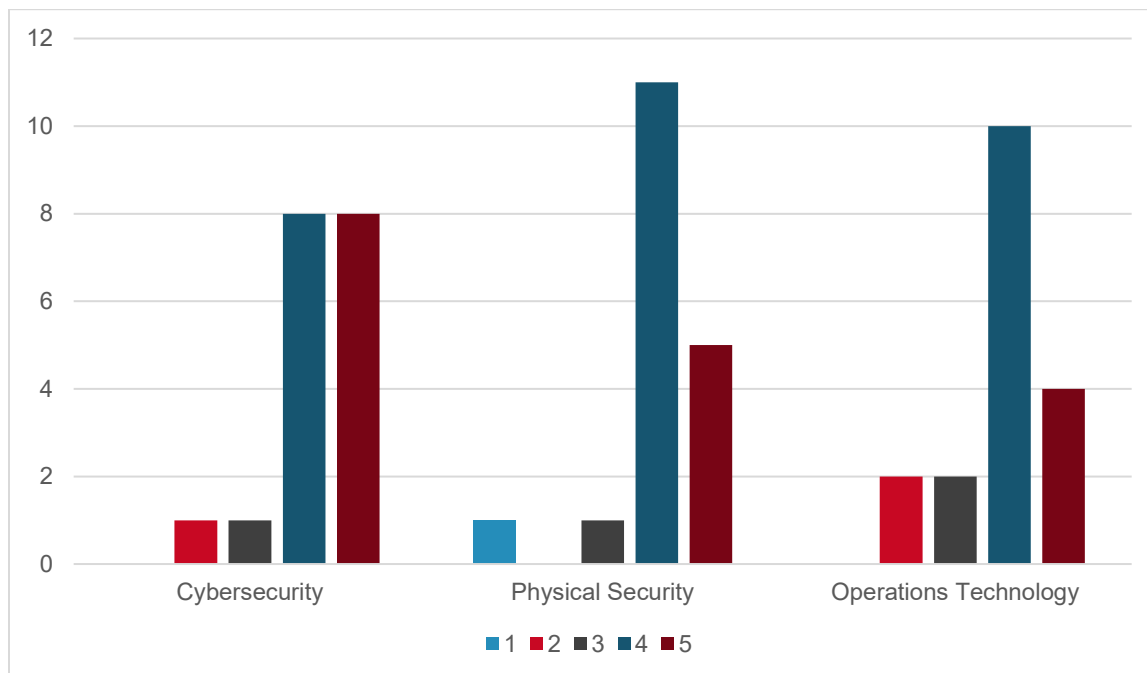
### Report

Chair Anderson will lead this discussion during the meeting.

## Annual MRO Security Advisory Council (SAC) and Security Advisory Council Threat Forum (SACTF) Survey 1 / 12

Q1 How effective is the MRO SAC and SACTF outreach and awareness in the following areas? (1 = least, 5 = most)

Answered: 18  
Skipped: 0



	1	2	3	4	5	TOTAL	WEIGHTED AVERAGE
Cybersecurity	0.00% 0	5.56% 1	5.56% 1	44.44% 8	44.44% 8	18	3.70
Physical Security	5.56% 1	0.00% 0	5.56% 1	61.11% 11	27.78% 5	18	3.69
Operations Technology	0.00% 0	11.11% 2	11.11% 2	55.56% 10	22.22% 4	18	3.57

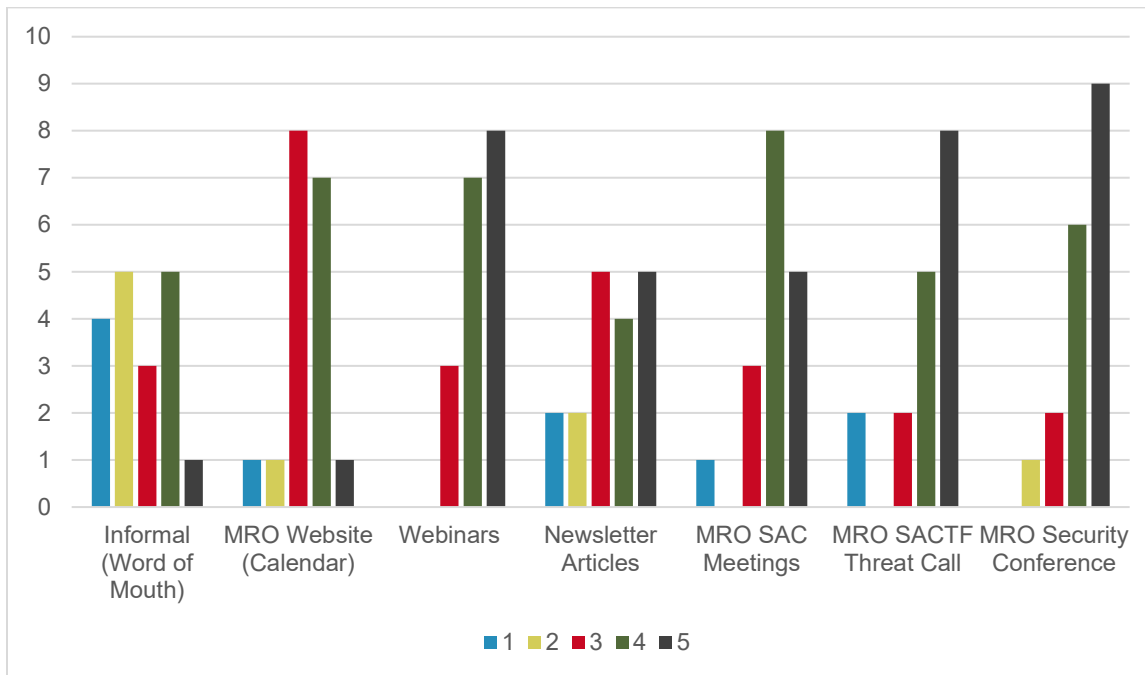
### Comments:

- Honestly, you're kind of nailing it. No comments.

## Q2 What is an effective method of communication for your organization for MRO SAC and SACTF activities? (1 = least, 5 = most)

Answered: 18

Skipped: 0



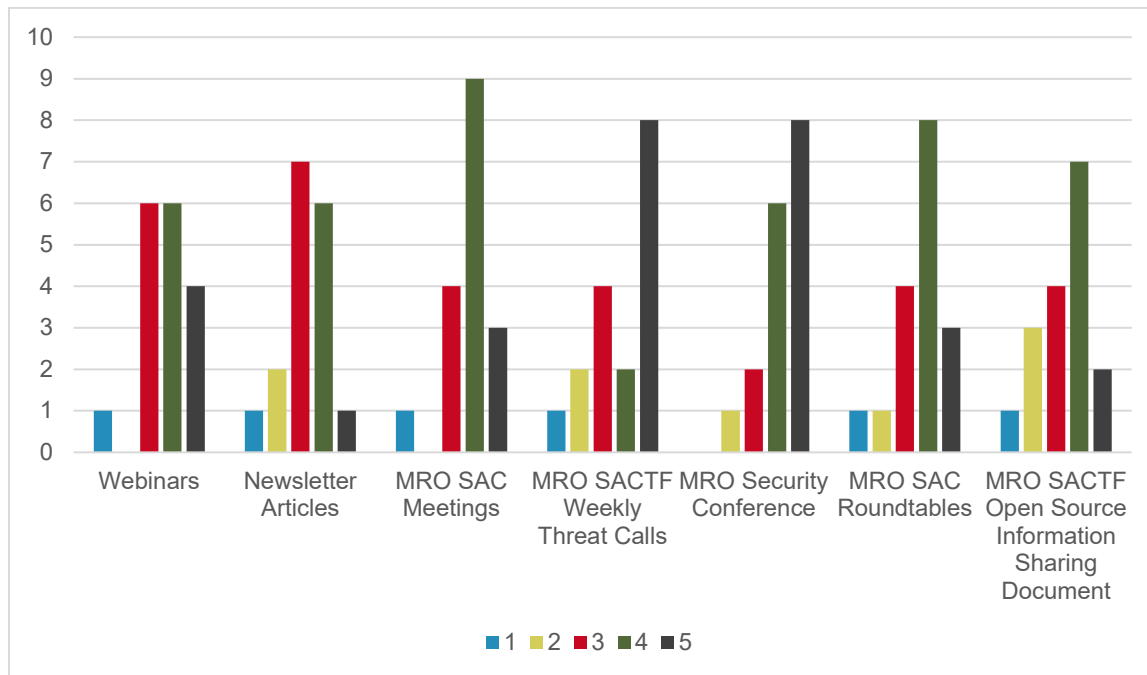
	1	2	3	4	5	TOTAL	WEIGHTED AVERAGE
Informal (word of mouth)	22.22% 4	27.78% 5	16.67% 3	27.78% 5	5.56% 1	18	2.53
MRO Website (calendar)	5.56% 1	5.56% 1	44.44% 8	38.89% 7	5.56% 1	18	3.24
Webinars	0.00% 0	0.00% 0	16.67% 3	38.89% 7	44.44% 8	18	3.70
Newsletter Articles	11.11% 2	11.11% 2	27.78% 5	22.22% 4	27.78% 5	18	2.85
MRO SAC Meetings	5.88% 1	0.00% 0	17.65% 3	47.06% 8	29.41% 5	17	3.50
MRO Security Advisory Council Threat Forum (SACTF) Weekly Threat Call	11.76% 2	0.00% 0	11.76% 2	29.41% 5	47.06% 8	17	3.11
MRO Security Conference	0.00% 0	5.56% 1	11.11% 2	33.33% 6	50.00% 9	18	3.56

## Comments:

- LinkedIn posts have been effective in reaching me.
- Finding past newsletters or other past materials on the MRO website is not a straightforward endeavor.

## Q3 How much has your organization benefited from the following MROSAC and SACTF activities? (1 = least, 5 = most)

Answered: 17  
Skipped: 1



	1	2	3	4	5	TOTAL	WEIGHTED AVERAGE
Webinars	5.88% 1	0.00% 0	35.29% 6	35.29% 6	23.53% 4	17	3.31
Newsletter Articles	5.88% 1	11.76% 2	41.18% 7	35.29% 6	5.88% 1	17	3.13
MRO SAC Meetings	5.88% 1	0.00% 0	23.53% 4	52.94% 9	17.65% 3	17	3.50
MRO SACTF Weekly Threat Call	5.88% 1	11.76% 2	23.53% 4	11.76% 2	47.06% 8	17	2.78
MRO Security Conference	0.00% 0	5.88% 1	11.76% 2	35.29% 6	47.06% 8	17	3.56
MRO SAC Roundtables	5.88% 1	5.88% 1	23.53% 4	47.06% 8	17.65% 3	17	3.36
MRO SACTF Open Source Information Sharing Document	5.88% 1	17.65% 3	23.53% 4	41.18% 7	11.76% 2	17	3.13

## Comments:

- Thanks for the addition of the information sharing document. Sometimes the conversation wanders a bit and it's hard to take notes for the benefit of others in our org who do not attend the call.

Q4 If you would like to present a topic via webinar or write a newsletter article on behalf of the MRO SAC and SACTF please provide your contact information and topic:

Answered: 0  
Skipped: 18

#### Comments:

- No responses.

Q5 Please list any security areas of interest that would benefit your company the most (e.g. Drones, Cloud computing, vendor and supply chain risk, etc.):

Answered: 6  
Skipped: 12

### Comments:

- More information on physical security techniques for substations in rural locations. Also, information on drone technology that can be used by the electric sector that does not violate the recent DOD order on Chinese drone technology.
- We would love to see a "SOC forum" event where our junior folks could join others to discuss monitoring, alert response, incident response, and threat hunting tips. Could be physical or cyber. Or how about facilitating a match.com program where SOC analysts could travel to other utilities who volunteer to host peer-to-peer sessions in their SOC?
- Please continue the weekly threat calls. More information on security for cloud computing would be beneficial.
- Supply Chain
- Supply chain Virtual Machines
- NERC CIP and cloud computing

Q6 Besides the E-ISAC, what other partnerships would you like the MROSAC and SACTF to enhance for the region?

Answered: 1  
Skipped: 17

Comments:

- National Labs (INL, PNNL, etc.)

## Q7 Please provide any additional feedback for the MRO SAC and SACTF:

Answered: 2  
Skipped: 16

### Comments:

- Keep going, you're doing great!
- The MRO SAC and SACTF did an outstanding job his year!

## MEETING AGENDA – Security Advisory Council – February 22, 2023

### AGENDA

#### 2023 Security Conference Update

*Cris Zimmerman, Manager of Outreach and Stakeholder Engagement, MRO*

#### **Action**

Information

#### **Report**

Cris Zimmerman will provide a report during the meeting.



MIDWEST  
RELIABILITY  
ORGANIZATION

# **MRO Security Hybrid Conference 2023**

**Oklahoma City (OKC) Sept 26<sup>th</sup> – 28<sup>th</sup>**

**Sheraton OKC Downtown Hotel**

CLARITY

ASSURANCE

RESULTS



# OKC Sheraton Downtown Hotel



CLARITY

ASSURANCE

RESULTS

# Sheraton OKC Downtown Hotel



CLARITY

ASSURANCE

RESULTS

# Sheraton OKC Downtown Hotel



CLARITY

ASSURANCE

RESULTS

# Dates & High Level Plan

- **Hybrid Event**

- In-person cap around 200
- Unlimited for virtual

- **Tuesday Sept 26<sup>th</sup>**

- Security Training 11am – 4pm
- Social Hour & Networking 5-7pm

- **Wednesday Sept 27<sup>th</sup>**

- MRO Security Hybrid Conference 8am - 4:30pm
- Sheraton Ballroom Conference room
  - Rob Lee (Dragos) 1 of our Keynote speaker – will need back Key note speaker up for possible family conflict for Rob
  - Looking into having a Idaho National Labs (INL) Jeff Hahn bring their ICS Cyber Escape Room (ICScape Room)

- **Thursday Sept 28<sup>th</sup>**

- 8am – 12pm SAC meeting Conference room reserved at the hotel at this time.
- Planning for max of 30 attendees in person???



# Planning, Action Items & Due Dates

**Feb- April - Develop security conference objectives and agenda**

**May 22-25 send out save the date notice with high level agenda**

**June 30<sup>th</sup> finalize agenda and speakers**

**Week of July 10<sup>th</sup> send out announcement and open registration**



CLARITY

ASSURANCE

RESULTS



## MEETING AGENDA – Security Advisory Council – February 22, 2023

### AGENDA

**SAC Draft 2023 Work Plan**  
*Ian Anderson, MRO SAC Chair*

#### **Action**

Discussion

#### **Report**

Chair Anderson will lead this discussion during the meeting.

**MEETING AGENDA – Security Advisory Council – February 22, 2023**

**AGENDA**

**Action Item Review**

*Margaret Eastman, Security Administrator, MRO*

**Action**

Discussion

**Report**

Margaret Eastman will review the action items captured during the meeting.

## MEETING AGENDA – Security Advisory Council – February 22, 2023

### AGENDA

**Other Business and Adjourn**  
*Ian Anderson, MRO SAC Chair*

#### **Action**

Discussion

#### **Report**

Chair Anderson will lead this discussion during the meeting.