



EPAS (Including RWG, HPWG and GOWG)

June 28, 2022

Greg Park, Chair
Alan Wahlstrom, Vice Chair



HPWG update to EPAS

June 28, 2022

Krystall Valencia, Chair
Mel Ayala, Vice Chair

Human Performance Work Group (HPWG)

- HPWG Purpose
 - The HPWG provides input, analysis and recommendations on human performance-based errors occurring within the Western Interconnection.
 - The HPWG also provides input/training on best practices to mitigate human performance-based errors.

Recent and Upcoming Activities

- Change in HPWG leadership – Krystall Valencia with the Western Area Power Administration has taken on the role of chair in preparation upon the retirement of Rodney Krauss. Mel Ayala with PG&E remains the vice-chair.
- HPWG is reviewing their Charter.
 - Planning continues to refine the HPWG.
 - Plans are in place to bring the human performance elements of event reports to the group for input on potential best practice mitigations that can be provided to the entity.
 - Plans are in the development phase on HPWG workshops in conjunction with some of the regularly scheduled meetings.

Three-Year Work Plan Status

Title	Reliability Risk Priority	Status	Target Date
CCAP Fundamentals Training	Committee Specific Priority		11/2022
Provide HPWG expertise to EPAS on Events submitted in Brief Reports	Committee Specific Priority		12/31/2022

-  Proceeding
-  Ongoing
-  Attention
-  Assistance
-  Complete



GOWG update to EPAS

June 28, 2022

Glen Farmer, Chair
Tom Fishback, Vice Chair




Generator Operator Work Group (GOWG)

- GOWG Purpose
 - Support generation within the Western Interconnection (WI) in their combined efforts related to generator operation and reliability of the Bulk Electric System.
 - 2. Provide guidance and coordination with other WECC committees on topics involving generation

Recent and Upcoming Activities

- GOWG is in the planning phase of their yearly Winter Weather Readiness Seminar.
- GOWG is discussing the new NERC standards that become effective on April 1, 2023, and their impact and implementation for GO's and GOPs in the WI.

Three-Year Work Plan Status

Title	Reliability Risk Priority	Status	Target Date
Winter Weather Readiness Seminar	Resource Adequacy and Performance		9/2022
Winter Generation Preparation Guide	Resource Adequacy and Performance		As needed
NERC Standards RSAW analysis: EOP-011-2, IRO-010-4, TOP-003-5	Resource Adequacy and Performance		4/1/2023



Proceeding



Ongoing



Attention



Assistance



Complete



RWG update to EPAS

June 28, 2022

Bill Middaugh, Chair
Dean Bender, Vice Chair

Relay Work Group (RWG)

- RWG Purpose
 - The RWG provides technical support to the Event and Performance Analysis Subcommittee (EPAS) and other work groups in the area of system protection. The group also performs analysis on protection system misoperations looking for trends, root causes, and areas of concern.

Recent Activities

- Change in RWG leadership – Bill Middaugh with Tri-State Generation and Transmission has taken on the role of chair in preparation of Randy Spacek’s retirement. Dean Bender with BPA remains the vice-chair.
- RWG has reviewed and updated their Document Library.
 - Multiple documents will be brought to EPAS in their scheduled Open meeting in September
 - Some of these documents involved collaborating with other groups (TELWG and RASRS)
 - Charter for the work group has also been updated
- Helped draft industry Lessons Learned
 - Review team from NERC EAS has been created to prepare this draft for publication
- RWG is monitoring activities associated with the impact of IBR on the BES system
- RWG members participate with multiple committees (EPAS, IEEE PSRC, RASRS, MIDASUG, SPCWG, SCMWG, IRPS)
 - Updates from these group’s work plans are made in RWG’s quarterly meetings

Upcoming Activities

- RWG has created a draft for the 2021 Misoperations Report
 - The format of the 2021 report will be slightly different than previous reports as it will only include topics with significant take-aways
 - Some of the analysis has not yet been completed
 - Targeting publication of report around October 2022
- RWG is modifying an existing document to reference recent work on commissioning Protection Systems. This work will make the RWG document a valuable resource on this topic.

Three-Year Work Plan Status

Title	Reliability Risk Priority	Status	Target Date
Quarterly Misoperation Review	Committee Specific Priority		Ongoing
Annual Misoperation Report	Committee Specific Priority		10/15/2022
Provide expertise on Protection Systems to the WECC Committee Structure	Committee Specific Priority		Ongoing



Proceeding



Ongoing



Attention



Assistance

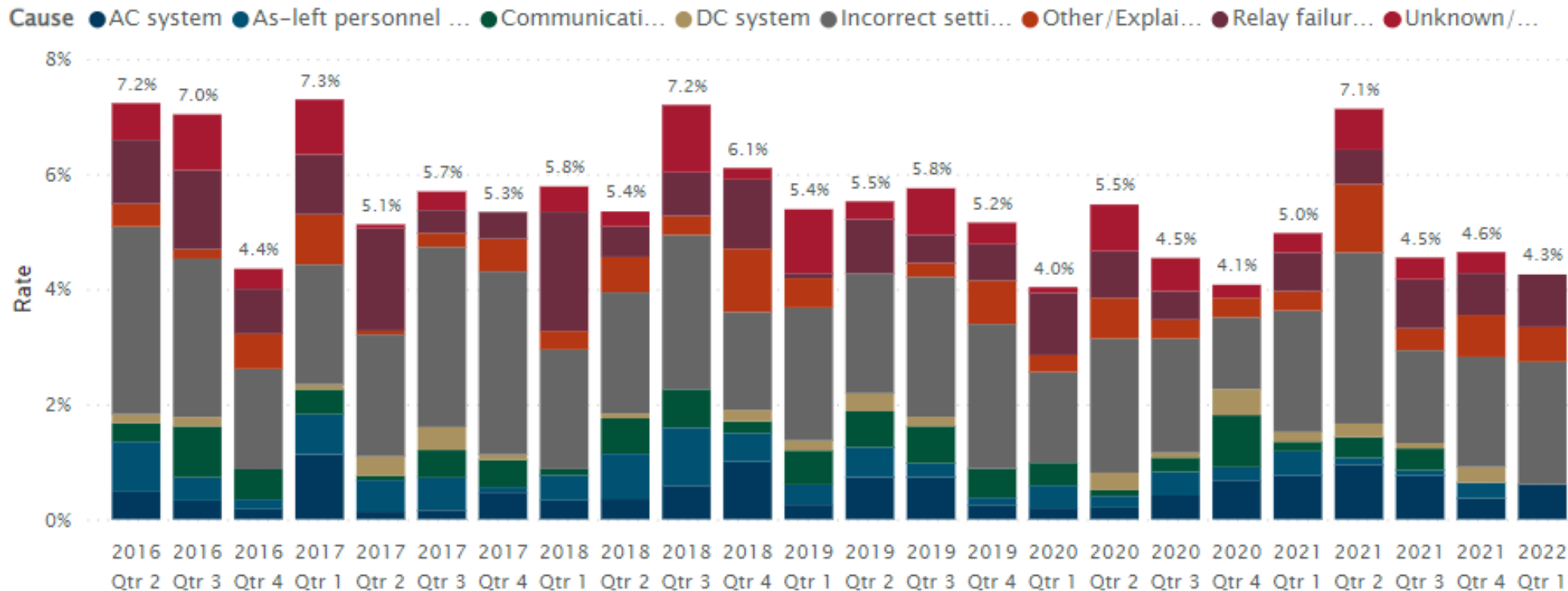


Complete

Misoperations rate over time

RWG has supported a misoperations reduction strategy, and supported Workshops focused on reducing misoperations, with the greatest improvement in the “Unknown Category”. We feel these efforts have helped reduce the overall misoperations rate in the Western Interconnection

Misoperations Rate by Quarter





EPAS Update to the RRS

6/28/2022

Greg Park, Chair
Alan Wahlstrom, Vice Chair

Event and Performance Analysis Subcommittee(EPAS)

- EPAS Purpose
 - Analyze events and Western Interconnection-wide performance and disseminate lessons learned to mitigate re-occurrence of similar events.
- Items for Approval and Discussion:
 - None

Recent and Upcoming Activities

- Continual periodic review of NERC EAS events reported for the Western Interconnection in monthly closed-door sessions
 - Attendance by industry continues to exceed expectations. Multiple parties from entities attendance is the norm.

- Open door meeting for September 7, 2022 announced.

EPAS – Event and Performance Analysis Subcommittee and RWG – Relay Work Group

Hybrid

155 North 400 West, Suite 200
Salt Lake City, Utah

Add a description of the meeting (e.g., what will be discussed, what committee or group is in charge, who the meeting is for).

September 7, 2022

EPAS Closed 1:00 –2:00 p.m.

[EPAS Open](#) 2:00 –4:00 p.m.

September 8, 2022


[RWG](#).....|8:00 a.m.–5:00 p.m.

September 9, 2022

[RWG](#)..... 9:00 a.m.–12:00 p.m.

[Register Here](#)

Three-Year Work Plan Status

Title	Reliability Risk Priority	Status	Target Date
Review and Approve subcommittee Documents	1: Dependent on each Subcommittee		Ongoing



Proceeding



Ongoing



Attention



Assistance



Complete



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