

# Performance Analysis Subcommittee Scope

## Purpose

The Performance Analysis Subcommittee (PAS) will review, assess, and report on reliability of the North American bulk power system (BPS) based on historic performance, risk and measures of resilience. The key findings and recommendations will serve as technical input to NERC, FERC, and industry reliability activities<sup>1</sup>. The PAS will assess available performance metrics, develop any necessary guidelines and protocols for determining new metrics, and develop appropriate reliability performance benchmarks in support of the NERC Reliability Assessment and Performance Analysis<sup>2</sup> program.

## Activities

1. Annually review, assess and report the state of reliability based on metric trends and technical analysis, and emerging issues. The results are provided to NERC's Reliability and Security Technical Committee (RSTC), Board of Trustees, and the public;
2. Develop and enhance performance metrics and indices that align with an Adequate Level of Reliability (ALR);
3. Develop methods to recognize the reliability risks to the industry and develop measurement methods to quantify those risks;
4. Develop methods to recognize the relationship between risks, standards, and performance including identification of data requirements;
5. Develop methods that will provide key performance indicators to a variety of audiences about the reliability of the bulk power system performance using metric information and trends;
6. Define data collection and reporting guidelines;
7. Publish periodic website updates, webinars, and high level assessments on bulk power system reliability performance;
8. Coordinate with the NERC RSTC, Standards Committee (SC), Reliability Issues Steering Committee (RISC), and other appropriate groups to provide an integrated view of reliability performance.
9. Request user groups, as required, to support analysis and work products; provide direction to and prioritize areas of investigation by the user groups.

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<sup>1</sup> For example, NERC's Reliability Standards and project prioritization, compliance process improvement, event analysis, reliability assessment, Reliability Issues Steering Committee and critical infrastructure protection.

<sup>2</sup> Defined in Section 809 of the NERC Rules of Procedure, available at [http://www.nerc.com/FilingsOrders/us/RulesofProcedureDL/NERC\\_RoP\\_EFFECTIVE\\_20160504.pdf](http://www.nerc.com/FilingsOrders/us/RulesofProcedureDL/NERC_RoP_EFFECTIVE_20160504.pdf)

## User Groups

User groups that support the PAS may include, and are not limited to, the following:

1. Generating Availability Data System User Group (GADSUG)
2. Transmission Availability Data System User Group (TADSUG)
3. Demand Response Availability Data System User Group (DADSUG)
4. Misoperations Information Data Analysis System User Group (MIDASUG)\*

## Deliverables

On an annual basis, PAS will develop a report summarizing the reliability performance of the BPS for the industry. This report will also identify any areas of potential reliability risks for further analysis.

Annually, PAS will review the set of approved performance metrics, consider changes to standards, guidelines and other recent changes in the industry to propose development of additional metrics and retirement or modifications to improve existing metrics or indices as needed.

On a special request basis, PAS may have responsibility for investigating specific reliability risks to the industry. These requests may originate from NERC or the RSTC. Studies may result in additional metrics or indices.

## Membership

The subcommittee is comprised of the following:

- Chair
- Vice chair
- At least two representatives to represent an operations perspective of BPS performance
- At least one member-at-large representing Canada
- User group chairs or designee
- Industry experts in the areas of performance metrics, benchmarking, and risk analysis
- NERC staff coordinator(s)
- Additional members may be added at the request of PAS

The PAS chair and vice chair are nominated by the PAS membership and appointed by the chair of the NERC RSTC for one two-year term. The vice chair should be available to succeed to the chair.

## Order of Business

In general, the desired, normal tone of PAS business is to strive to develop technically sound solutions using constructive methods that achieve consensus. In situations where the desired outcome does not

reach consensus, the PAS will defer to a vote by the RSTC, providing recommendations and consequences for each alternative.

In like manner, observers and NERC staff is expected to adhere to similar approaches, including the requirement to strive for constructive technically sound solutions, building consensus, as well as documenting alternatives and consequences.

## **Reporting**

The subcommittee is responsible to the RSTC for the completion of work associated with the scope items outlined above, and as necessary, the RSTC and the Board of Trustees approve final work products of the PAS. The subcommittee chair will periodically apprise the RSTC on the subcommittee's activities, assignments, analysis results, and recommendations.

## **Meetings**

Meetings occur as needed. The meetings are open and encourage participation by observers. Observers may include participants from the Federal Energy Regulatory Commission, the United States Department of Energy and the National Energy Board, Canada.

Approved by the NERC Reliability and Security Technical Committee on March 2, 2021.