

Performance Analysis Subcommittee

Scope

Purpose

The Performance Analysis Subcommittee (PAS) provides industry with a perspective on reliability of the North American bulk power system (BPS) based on historic performance, risk, and measures of resilience. The PAS reviews available performance metrics and contributes to the development of guidelines or protocols for determining new metrics in support of the ERO Performance Analysis program.

Activities

1. Provides input on metric trends, technical analysis, and emerging issues for the State of Reliability Report (SOR).
2. Contributes to the development of:
 - a. BPS performance metrics and indices that align with an Adequate Level of Reliability (ALR),
 - b. Measurement methods to quantify reliability risks.
 - c. Methods to recognize the relationship between risks, standards, and performance including identification of data requirements.
3. Coordinates with the NERC Reliability and Security Technical Committee (RSTC), Standards Committee (SC), Reliability Issues Steering Committee (RISC), and other appropriate groups to provide an integrated view of reliability performance.
4. Collaborates on analyses performed by working groups, user groups, and others to provide an integrated view of reliability performance.

Deliverables

1. PAS oversees the development of the SOR, which annually summarizes the reliability performance of the BPS and identifies areas of potential reliability risks for further analysis.
2. PAS reviews approved BPS performance metrics on a rotating cycle to ensure that metrics remain relevant. Based on changes to standards, guidelines and other recent industry developments, PAS reviews proposals for additional metrics and may recommend new metrics, or retirement or modifications to improve existing metrics or indices.

On a special request basis, PAS provides input 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:

- Sponsor

- Chair
- Vice Chair
- At least two representatives with 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 approved by the chair of the NERC RSTC for one two-year term. The Vice Chair is expected to succeed to the chair at the end of the Chair's term.

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 are expected to adhere to similar approaches, including the requirement to strive for constructive technical 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. The PAS 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 12, 2025.