



# Protection and Control Subcommittee (PCS) Misoperations and Operations Review Guidelines

## Summary

### 1.0 Business Need

These guidelines have been developed to ensure consistent review of quarterly misoperation and operations data.

### 2.0 Scope

These guidelines only apply to the SERC PCS quarterly review of Protection System misoperations and operations data. Operations include Protection System misoperations and correct Protection System operations.

### 3.0 Approach

The SERC PCS will use the following documents for the basis of the PCS review:

- NERC Reliability Standard PRC-004-4i (and successor versions),
- MIDAS Reporting Template,
- NERC Q&A on Consistent Protection System Misoperation Reporting

All new submittals will be reviewed to validate that the misoperation meets reporting criteria. The PCS will provide feedback if it appears a submittal does not meet reporting criteria. If the event description is not clear enough for the PCS to determine if the misoperation is reportable, the PCS will request further information to allow making a determination.

Submittals with a status of “Corrective Action – Completed” or “Declaration Made – No Corrective Actions” will be reviewed. The PCS will provide feedback on any submittal where the PCS has questions about, or suggestions for, the six (6) submittal fields below:

1. Event Description,
2. Misoperation Category,
3. Cause of Misoperation,
4. Protection Systems/Components that Misoperated,
5. Analysis and Corrective Action Status, and
6. Corrective Action Plan(CAP)

On behalf of the SERC PCS, SERC staff will perform preliminary review of the quarterly data and identify any concerns with:



- CAP Target Completion Date
- CAP Actual Completion Date
- TADS reporting
- GADS reporting

The PCS may ask SERC staff to request further information regarding the length of time required to implement a corrective action for a particular misoperation if the time frame seems excessive. Exceeding two years to implement a corrective action would typically be a point of concern.

Feedback on TADS and GADS data will be given to entities if feedback is required for other reviewed items.

On behalf of the SERC PCS, SERC staff will review operations count data and identify potential outliers. Items typically validated include:

- Operations reported at <100kV (Is the Element actually part of the BES? Is the Element a transformer with high-side voltage <100kV, or was it reported using low-side voltage?)
- Abnormal number of operations relative to entity size.
- High numbers of operations from a Generator Owner to ensure reverse power operations that are part of a routine shutdown are not being reported.

#### **4.0 Conclusion**

The above guidelines will help ensure the PCS performs consistent review of the data and provision of feedback to applicable entities.