

PJM Compliance Bulletin

CB025, NERC Standard PRC-002-2 – Disturbance Monitoring and Reporting Requirements

General

NERC Standard PRC-002-2 requires entities to have adequate data available to facilitate analysis of Bulk Electric System (BES) Disturbances.

The purpose of this Compliance Bulletin is to document the process when PJM requests Transmission Owners (TOs) and Generator Owners (GOs) submit sequence of events recording (SER) and fault recording (FR) data for identified BES buses and dynamic Disturbance recording (DDR) data for identified BES Elements to PJM as Planning Coordinator (PC) in the Eastern Interconnection.

Background

NERC Standard PRC-002-2 requires entities to have adequate Disturbance monitoring data available to facilitate the analysis, reconstruction, and reporting of System Disturbances. The emphasis of PRC-002-2 is not on “how” entities capture the data but more so on “what” data entities capture. To this end, it requires the PC to identify BES Elements for which dynamic Disturbance recording data is required as per Requirement R5 and for the TOs and GOs to submit the corresponding DDR data for those BES Elements it owns to the PC, Regional Entity or NERC upon request. It also requires TOs and GOs to submit sequence of events recording and fault recording data to the same entities upon request.

PJM as PC has identified the BES Elements requiring DDR data using a 5-year Regional Transmission Expansion Plan (RTEP) load flow case and applying the criteria outlined in Requirement’s R5.1 and R5.2. PJM formally notified impacted TOs and GOs prior to the 07/01/2016 Enforcement Date of the Standard that their respective BES Elements require DDR data when requested as per Requirement R5.3.

Applicable entities that need to fulfill their respective SER and FR data requests for the BES buses identified in Requirement R1 as well as DDR data requests for BES Elements identified in Requirement R5 to PJM as PC can do so by submitting the data in accordance with the following guidelines to the email address NERC.Transmission.Planner@pjm.com:

SER Data Format

SER data will be provided in ASCII Comma Separated Value (CSV) following Attachment 2 of the Standard:

Date, Time, Local Time Code, Substation, Device, State¹

08/27/13, 23:58:57.110, -5, Sub 1, Breaker 1, Close

08/27/13, 23:58:57.082, -5, Sub 2, Breaker 2, Close

08/27/13, 23:58:47.217, -5, Sub 1, Breaker 1, Open

08/27/13, 23:58:47.214, -5, Sub 2, Breaker 2, Open

¹ “OPEN” and “CLOSE” are used as examples. Other terminology such as TRIP, TRIP TO LOCKOUT, RECLOSE, etc. is also acceptable.



FR and DDR Data Format

FR and DDR data will be provided in electronic files that are formatted in conformance with C37.111, (IEEE Standard for Common Format for Transient Data Exchange (COMTRADE), revision C37.111-1999 or later.

Data files will be named in conformance with C37.232, IEEE Standard for Common Format for Naming Time Sequence Data Files (COMNAME), revision C37.232-2011 or later.

PJM will provide any additional guidance if applicable at the time of the data request.

PJM anticipates re-evaluating all BES Elements for which DDR data is required at least once every five calendar years and will notify owners to implement the re-evaluated list as per the Implementation Plan put forth by NERC. Likewise, NERC expects TOs to re-evaluate all BES buses for which SER and FR data is required at least once every five calendar years.

Conclusion

The purpose of this Compliance Bulletin is to document the process when PJM requests TOs and GOs to submit SER and FR data for identified BES buses, and DDR data for identified BES Elements to PJM as the PC in the Eastern Interconnection when requested .

Development History

Revision: 0	Date: 09/02/2016
Author:	Stanley Sliwa, Sr. Engineer PJM Transmission Planning Mark Kuras, Sr. Lead Engineer NERC and Regional Coordination Department
Reviewers:	Mark Holman, Manager NERC and Regional Coordination Mark Sims, Manager PJM Transmission Planning
Approver:	Robert Eckenrod, Chief Compliance Officer Reliability and Compliance
Reason	New Compliance Bulletin