

NERC

NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

Informal Request for Information

Project 2007-11 Disturbance Monitoring

June 5, 2013

RELIABILITY | ACCOUNTABILITY



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Introduction and Scope

The NERC [Project 2007-11 Disturbance Monitoring](#) Standards Drafting Team (DMSDT) requests specific data as outlined below from Generator Owners and Transmission Owners (in cooperation with their Reliability Coordinators and Planning Coordinators as needed) to enable the Drafting Team to refine the PRC-002-2 Requirements to identify Disturbance Monitoring recording locations. After consideration of comments from the first posting of the Standard in 2009 and further review of the Standard's Requirements, the Drafting Team concluded that using a substation's configuration to determine the locations for Disturbance Monitoring recording would not ensure adequate coverage for Bulk Electric System disturbances. The Drafting Team formed the Monitoring Value Analysis (MVA) Task Team to develop a methodology for determining optimum Disturbance Monitoring recording locations. Using data submitted from several entities, the MVA Task Team realized a correlation existed between three phase fault MVA and optimum Disturbance Monitoring recording siting. PRC-002-2 will require the use of this methodology when locating Disturbance Monitoring recording.

The informal request for information period is open Wednesday, June 5, 2013 through 8 p.m. Eastern Friday, July 4, 2013.

Responses are to be submitted using the Excel spreadsheet. The spreadsheet contains three tabs:

1. DMSDT Information Library
2. Example from NE-USA
3. "Blank" NERC Information Template
 - a. Enter your company's information here

Background and Data Requested

Background

Project 2007-11 Disturbance Monitoring is being conducted to establish minimum requirements for capturing power system disturbance data to enable the effective analysis of power system disturbances.

The project impacts two existing standards:

- [PRC-002-1 Define Regional Disturbance Monitoring & Reporting Requirements](#)
- [PRC-018-1 Disturbance Monitoring Equipment Installation and Data Reporting](#)

The project involves replacing "fill-in-the-blank" requirements currently assigned to the Regional Reliability Organization with continent-wide requirements that are applicable and would become mandatory to other functional entities, after FERC and the appropriate Provincial Authorities approvals. If necessary, each region can supplement PRC-002-2 with a regional standard or regional criteria that include additional or more stringent requirements.

The DMSDT previously issued a draft standard, and received industry comments, in 2009. The team realized the challenge with establishing continent-wide requirements is the regional variability of the electric grid. The exercise of identifying location thresholds for implementation of Sequence of Events, Fault Recording, and Dynamic Disturbance recording data capture requires an analysis of data from the NERC Regions that identifies appropriate thresholds.

Requested Data

Subject to this request's Information Collection Restraints (see below) and for each Targeted Location (see list below) the following data is requested:

Bolted Three Phase Short Circuit Current and MVA

1. Submit the most up-to-date three phase short circuit MVA data for a NERC Operating Region.
2. Conditions for the short circuit program should include maximum generation with normal operating connectivity.
3. Provide data for all listed buses at a targeted location (row).

Targeted Locations

The data request is applicable to sites on the electric grid commonly referred to as:

1. Transmission Switching Stations
2. Transmission Substations
3. Generating Stations
4. High Voltage Direct current (HVDC) Converter stations

Data Collection Constraints

1. All buses with three phase short circuit MVA of 1500 MVA or larger should be included.
2. All buses operated at a voltage greater than 100kV L-L.
3. Optional: If an interconnected location has a bus with three phase short circuit MVA less than 1500 MVA, it may be reported for more complete connectivity topology.
4. One bus to be listed per row.

NERC Contact Information

Please return your company's completed Excel spreadsheet via email to Barb Nutter at barbara.nutter@nerc.net by **8 p.m. Friday, July 5, 2013**.

NERC Points of Contact:

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