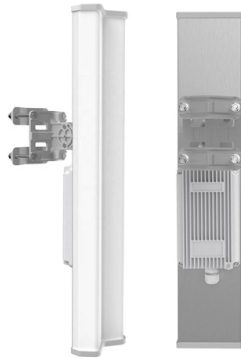


Nationwide Change of Relay Protection Settings



Overview

NERC PRC-023-6 regulation, effective as of February 2024, is a regulatory standard aimed at managing the complex relationship between transmission relay settings, loadability, and system reliability. Copyright © 2022 National Grid Electricity Distribution This document specifies the requirements for protection panels associated with 36kV and 72kV outdoor switchgear and 33kV and 66kV transformers. NGG and NGET or their agents, servants or contractors do not accept any liability for any losses arising under or in connection with this information. This limit on liability applies to all and any claims in contract, tort (including. Fault Localisation, Isolation and Supply Restoration – an automated NMS control system algorithm that when triggered by the relevant events and protection alarms will attempt location and isolation of a fault and supply restoration of de-energised customers by operating remotely controllable. This Relevant Electrical Standard (RES) policy defines protection grading at interfaces between National Grid (NG) and Distribution Network Operators (DNOs) and other third parties to ensure that adequate discrimination of NG back-up protection with that of DNOs/third parties is achieved. It also. The health of the National Grid Electricity Transmission System is critically dependent upon correct relay settings. It is therefore essential that this process is adhered to both rigorously and diligently. com IEEE Southern Alberta Section PES/IAS Joint Chapter Technical Seminar - November 2016 Protective Relays - Technical Seminar Nov 2016 - Copyright: IEEE 2 Abstract: Protective relays and devices.



Article Content

Mar 23, 2026

Understanding PRC-023-6: Ensuring Transmission Relay

It provides guidelines for setting protective relay parameters, with the goal of striking a delicate balance between maximizing transmission line capacity and ensuring robust protection against faults and

Apr 30, 2026

Practical handbook for relay protection engineers | EEP

Relay protection circuitry This handbook covers the code of practice in protection circuitry including standard lead and device numbers, mode of

Nov 06, 2025

Power System Protective Relays: Principles & Practices

This presentation reviews the established principles and the advanced aspects of the selection and application of protective relays in the overall protection system, multifunctional numerical devices

Jul 08, 2026

Pick Up Current | Current Setting | Plug Setting

Plug setting multiplier of relay is referred as ratio of fault current in the relay to its pick up current. Suppose we have connected on protection CT of

Nov 24, 2025

Configuring Relay Settings for Relay Technicians

Best Practices for Effective Relay Configuration Ensuring the reliability of relay settings is both a science and an ongoing process. Here are some best

Jan 15, 2026

Setting the generator protective relay functions

Protective relay functions and data This technical article will cover the gathering of information needed to calculate protective relay settings, the

May 14, 2026

SEL-710 Motor protection relay Navigation, parameter settings, alarm ...

Schweitzer Engineering Laboratories/ SEL-710 motor protection relay, connection understanding, Password Enter, Navigation, Manually change parameter settings (CT-PT ratio setting), relay basic ...

Feb 08, 2026

Protection for 132kV, 33kV and 6.6/11kV Systems

It is intended to state the basis for the protection systems and settings in use throughout the Electricity North West Limited network. This document covers protection policy for the 132, 33 and 11/6.6kV

Jan 06, 2026

Setting Relays for Selective Coordination | Delgado Relay Protection ...

In conclusion, achieving selective coordination in relay protection systems is crucial for maintaining the reliability and resilience of electrical power networks. Proper relay settings, through

Sep 05, 2025

Microsoft Word

This Policy applies to the Network Operators overcurrent and earth fault protections and it sets out the protection settings requirements which when applied, will ensure compliance with The Grid Code

Feb 08, 2026

National Grid Design Handbook dh01 | PDF | Relay

It covers various aspects of relay equipment, protection schemes, testing and commissioning. The guidance aims to clarify National Grid requirements and deliver a common

Sep 06, 2025

Protection Relays

Minor changes have been made to this document to accommodate changes within EE SPEC: 185 (12kV Indoor switchgear) which removed the requirement for full scheme busbar protection at 11kV and 6.6kV.

Sep 02, 2025

PSM and TMS Settings Calculation of a Relay: Protection

PSM and TMS Settings are used to specify the tripping limits of a relay when a fault occurs. How to calculate the settings of the relay?

Apr 20, 2026

Relay Settings Calculations

Introduction This technical report refers to the electrical protections of all 132kV switchgear. All calculations are based on the available documentation/ information. These settings may be

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NG UKBP/TP 107

The procedure applies to all protection and control relays owned by National Grid Electricity Transmission (NGET), or for which NGET has entered into an arrangement to carry out and hold the

Dec 18, 2025

Nationwide

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A Guide for Calculating Step Distance Relay Settings

The relay setting development process should include a series of steps that guides the settings engineer to achieve reliable and properly coordinated relay settings. First, each utility must develop a solid

Jun 26, 2026

Power System Protective Relays: Principles & Practices

As the protected components of the electrical systems have changed in size, configuration and their critical roles in the power system supply, some protection aspects need to be revisited (i.e. the use of

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Protective and Control Relays Configuration and Settings

Correctly configured protection and control system can significantly reduce the extent of damage and the duration of interruption. Strong attention to detail ensures that calculated and applied protection

Sep 17, 2025

Basic protection relay knowledge

On the other hand, unselective protection operation in the extra high voltage network – i.e. at the national grid level- may endanger the stability of the whole power system, possibly leading to a

Jul 07, 2026

Policy Statement

This policy applies to DNO overcurrent and earth fault protection and sets out the protection settings requirements which, when applied, will ensure adequate grading margins and compliance with

Apr 11, 2026

Using a Court of Protection Order | Nationwide

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Aug 25, 2025

Protective Relay Basics Part 2

Part 1: Protective relay compared to low voltage circuit breaker. Review fundamental concepts, components, and terminology using the electromechanical overcurrent relay as a foundation.

Contact Us

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