

# NERC Protection and Control (PRC) Compliance Services



Simplify your audit experience with expert support that goes beyond requirements

- Meet NERC PRC standards with specialized SEL compliance services.
- Ensure the reliability and adequacy of bulk electric systems with NERC-compliant design and commissioning services.
- Receive audit-ready compliance deliverables backed by SEL quality and service.



# Service You Can Trust

## Experience

For over 35 years, SEL has delivered power solutions and services that protect electrical grids around the world. We understand the critical nature and needs of bulk electric systems and are committed to helping you navigate and comply with the complex, ever-changing regulatory standards to ensure personnel safety, improve system reliability, and mitigate regulatory risk.

SEL is recognized by 87 percent of North American utilities as the best-in-class relay supplier.\* Our engineers have the knowledge and tools to provide you with a reliable and compliant power protection system.

\*Newton-Evans Research Company Survey: "Worldwide Study of the Protective Relay Marketplace in Electric Utilities: 2019-2022 Volume 1 – North American Market"

## Expertise

SEL engineers are industry-experienced professionals with extensive knowledge in designing and commissioning power protection, automation, and control systems for critical electric infrastructure. We strive to provide the best solution for every project, every time.

## Quality

At SEL, we have built NERC reliability compliance requirements into our processes to ensure consistent quality. Every project is executed in accordance with applicable standards, and you are provided with audit-ready documentation.

## Service

You can count on SEL engineers to provide expert and timely support that goes beyond requirements, during or after audits.



# SEL Can Help

We offer professional compliance analysis and specialize in NERC PRC standards. Our analysis services include reliability assessments, system studies and calculations, and event analysis. To provide overall compliance assessments, our focused teams review existing protection and control designs, relay settings, modeling data, and operational practices. Our proposed solutions include risk identification and prioritization, mitigation options, compliance roadmaps, mitigation deployment plans, documentation, and training.

## Key Offerings

We can provide the following services:

- NERC PRC compliance checks and recommendations
- Corrective action plans and compliance roadmaps
- Assisting with mitigation and change implementation plans
- Hardware change recommendations
- Testing and maintenance plans
- Field testing compliance documentation
- Root cause analysis and reporting
- NERC-compliant protective relaying schemes and design drawings
- NERC-compliant setting calculations and control logic
- Continuous support services



# Compliance Standards Covered

SEL compliance services cover the following NERC PRC standards and requirements:

NERC PRC Standard	
PRC-001-1	System Protection Coordination
PRC-002-2	Disturbance Monitoring and Reporting Requirements
PRC-004-5	Protection System Misoperation Identification and Correction
PRC-005-1	Transmission and Generation Protection System Maintenance and Testing
PRC-006-3	Automatic Underfrequency Load Shedding
PRC-008-0	Implementation and Documentation of Underfrequency Load Shedding Equipment Maintenance Program
PRC-011-0	Undervoltage Load Shedding System Maintenance and Testing
PRC-012-2	Remedial Action Schemes
PRC-016-1	Remedial Action Scheme Misoperations
PRC-017-1	Remedial Action Scheme Maintenance and Testing
PRC-019-2	Coordination of Generating Unit or Plant Capabilities, Voltage Regulating Controls, and Protection
PRC-023-4	Transmission Relay Loadability
PRC-024-2	Generator Frequency and Voltage Protective Relay Settings
PRC-025-2	Generator Relay Loadability
PRC-026-1	Relay Performance During Stable Power Swings
PRC-027-1	Coordination of Protection Systems for Performance During Faults