

NERC PRC-027 Coordination of Protection Systems Compliance Services



Streamline compliance with accurate large-area protective device coordination and analysis services

- Establish a dependable and actionable compliance process and roadmap.
- Ensure continuous compliance as your power system expands and changes.
- Mitigate compliance issues, and ensure high levels of system reliability.



Service You Can Trust

Experience

SEL delivers 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

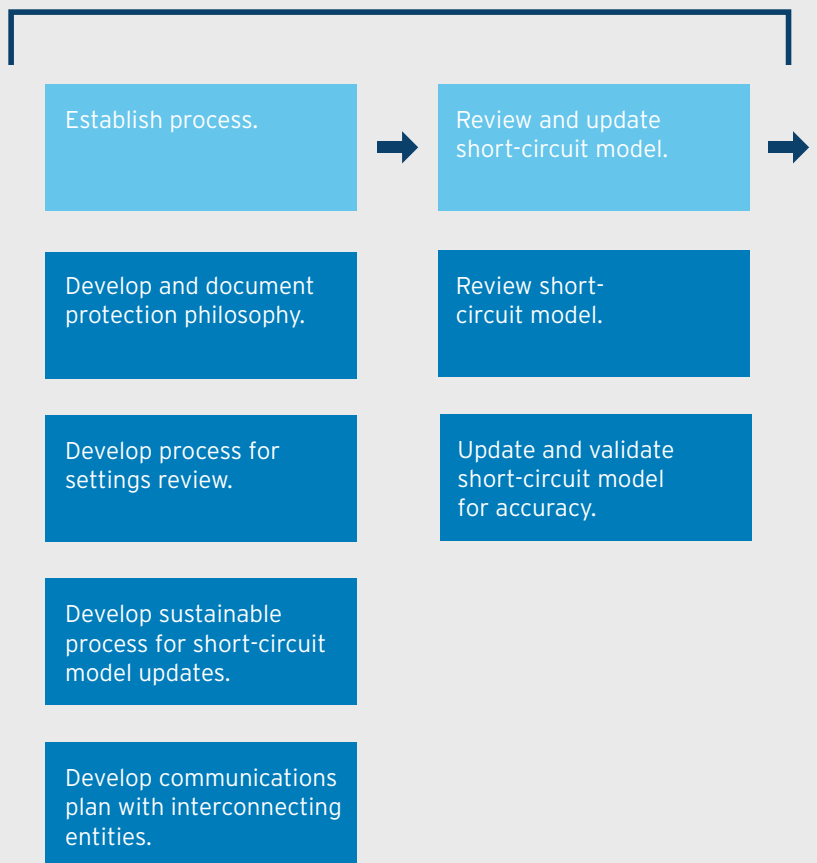
At SEL, we have built NERC reliability compliance requirements into our processes to ensure consistent quality. Every project is executed in accordance with applicable standards, and you are provided with audit-ready documentation.

Service

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

REQUIREMENT 1

Process Development

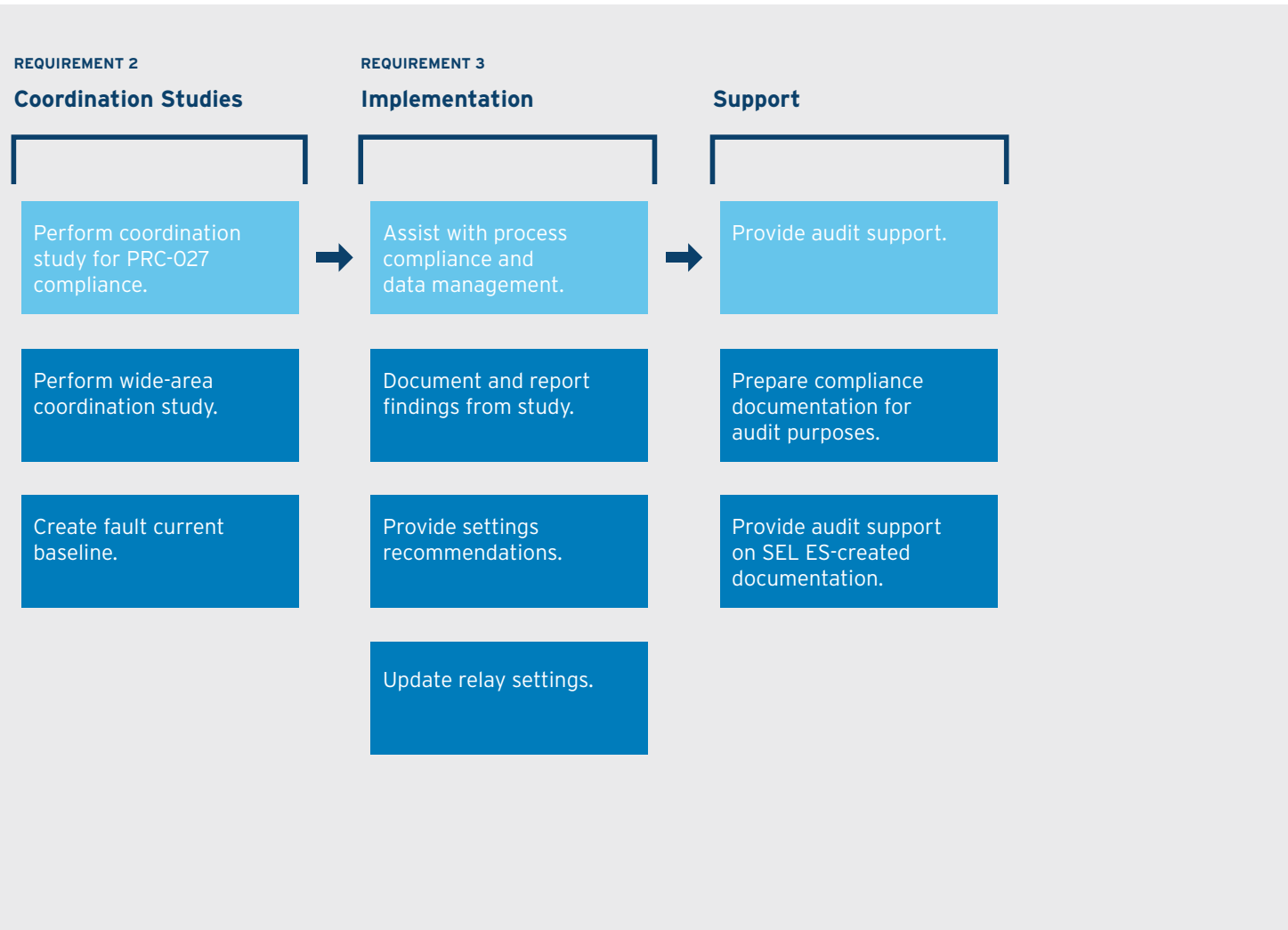


SEL Can Help

SEL Engineering Services (ES) offers transmission and generation owners professional and complete NERC PRC-027 compliance services. Our service offerings include compliance roadmaps, settings process development, short-circuit model reviews and updates, compliance reporting, mitigation deployment, and audit support. Our focused teams will review your existing protection and control designs, relay settings, modeling data, and operational practices and will provide you with timely, continuous, and system-wide compliance assessments. In addition, we provide audit support services to guide you during the audit process and help you address and respond to arising questions or requests.

Our PRC-027 compliance services include helping your organization do the following:

- Develop robust processes for new and revised protection system settings.
- Perform comprehensive, detailed system- or plant-wide protection system coordination studies.
- Implement protection system study recommendations.
- Maintain compliance as you modify and expand your system.
- Address audit questions, and prepare audit reports and deliverables.



Compliance Standards Covered

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

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



Making Electric Power Safer, More Reliable, and More Economical
+1.509.332.1890 | es-info@selinc.com | selinc.com

© 2020 by Schweitzer Engineering Laboratories, Inc.
PF00659 • 20200727

