

Reliability Standard Audit Worksheet¹

TOP-009-1 – Knowledge of Composite Protection Systems and Remedial Action Schemes and Their Effects

This section to be completed by the Compliance Enforcement Authority.

Audit ID: Audit ID if available; or REG-NCRnnnnn-YYYYMMDD

Registered Entity: Registered name of entity being audited

NCR Number: NCRnnnnn

Compliance Enforcement Authority: Region or NERC performing audit
Compliance Assessment Date(s)²: Month DD, YYYY, to Month DD, YYYY

Compliance Monitoring Method: [On-site Audit | Off-site Audit | Spot Check]

Names of Auditors: Supplied by CEA

Applicability of Requirements

	ВА	DP	GO	GOP	IA	LSE	PA/PC	PSE	RC	RP	RSG	то	ТОР	TP	TSP
R1													Х		
R2	Х														
R3				Χ											

Legend:

Text with blue background:	Fixed text – do not edit
Text entry area with Green background:	Entity-supplied information
Text entry area with white background:	Auditor-supplied information

The NERC RSAW language contained within this document provides a non-exclusive list, for informational purposes only, of examples of the types of evidence a registered entity may produce or may be asked to produce to demonstrate compliance with the Reliability Standard. A registered entity's adherence to the examples contained within this RSAW does not necessarily constitute compliance with the applicable Reliability Standard, and NERC and the Regional Entity using this RSAW reserves the right to request additional evidence from the registered entity that is not included in this RSAW. Additionally, this RSAW includes excerpts from FERC Orders and other regulatory references. The FERC Order cites are provided for ease of reference only, and this document does not necessarily include all applicable Order provisions. In the event of a discrepancy between FERC Orders, and the language included in this document, FERC Orders shall prevail.

¹ NERC developed this Reliability Standard Audit Worksheet (RSAW) language in order to facilitate NERC's and the Regional Entities' assessment of a registered entity's compliance with this Reliability Standard. The NERC RSAW language is written to specific versions of each NERC Reliability Standard. Entities using this RSAW should choose the version of the RSAW applicable to the Reliability Standard being assessed. While the information included in this RSAW provides some of the methodology that NERC has elected to use to assess compliance with the requirements of the Reliability Standard, this document should not be treated as a substitute for the Reliability Standard or viewed as additional Reliability Standard requirements. In all cases, the Regional Entity should rely on the language contained in the Reliability Standard itself, and not on the language contained in this RSAW, to determine compliance with the Reliability Standard. NERC's Reliability Standards can be found on NERC's website. Additionally, NERC Reliability Standards are updated frequently, and this RSAW may not necessarily be updated with the same frequency. Therefore, it is imperative that entities treat this RSAW as a reference document only, and not as a substitute or replacement for the Reliability Standard. It is the responsibility of the registered entity to verify its compliance with the latest approved version of the Reliability Standards, by the applicable governmental authority, relevant to its registration status.

² Compliance Assessment Date(s): The date(s) the actual compliance assessment (on-site audit, off-site spot check, etc.) occurs.

Findings

(This section to be completed by the Compliance Enforcement Authority)

Req.	Finding	Summary and Documentation	Functions Monitored
R1			
R2			
R3			

Req.	Areas of Concern

Req.	Recommendations

Req.	Positive Observations

Subject Matter Experts

Identify the Subject Matter Expert(s) responsible for this Reliability Standard.

Registered Entity Response (Required; Insert additional rows if needed):

SME Name	Title	Organization	Requirement(s)

R1 Supporting Evidence and Documentation

- R1. Each Transmission Operator shall ensure that its personnel (responsible for Reliable Operation of its Transmission Operator Area) have knowledge of operational functionality and effects of Composite Protection Systems and Remedial Action Schemes that are necessary to perform its Operational Planning Analyses, Real-time monitoring, and Real-time Assessments in order to maintain the reliability of the BES.
- M1. Each Transmission Operator shall provide evidence to demonstrate the method(s) used to ensure its personnel have knowledge according to Requirement R1. Evidence may include, but is not limited to, the following: training (including the effects on the BES), operating guides, manuals, procedures, output of operational tools (e.g., databases or analysis programs), or outcomes of analyses, monitoring, and assessments that identify the impacts on the BES.

Registered Entity Response (Required):

Compliance Narrative:

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requestedi:

Provide the following evidence, or other evidence to demonstrate compliance.

Evidence that the entity identified the responsible personnel and set of applicable Composite Protection Systems and Remedial Action Schemes necessary to perform the entity's Operational Planning Analysis, Real-time monitoring, and Real-time Assessments.

Evidence that demonstrates the method(s) used, such as training, operating guides, manuals, procedures, output of operational tools, or outcomes of analyses, monitoring and assessments, to ensure the entity's personnel have knowledge of operational functionality and effects of those Composite Protection Systems and Remedial Action Schemes.

Registered Entity Evidence (Required):

The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.

File Name	Document Title	Revision or Version	Document Date	Relevant Page(s) or Section(s)	Description of Applicability of Document

e completed by the Compliance Enforcement Authority	/):
e completed by the Compliance Enforcement Author	ritv

Compliance Assessment Approach Specific to TOP-009-1, R1

This section to be completed by the Compliance Enforcement Authority

Review evidence and verify the entity has identified its responsible personnel and set of applicable Composite Protection Systems and Remedial Action Schemes necessary to perform the entity's Operational Planning Analysis, Real-time monitoring, and Real-time Assessments.

For all, or a sample, review evidence and verify the entity's methods to ensure its personnel have knowledge of operational functionality and effects of those Composite Protection Systems and Remedial Action Schemes that are necessary to perform its Operational Planning Analysis, Real-time monitoring, and Real-time Assessments.

Note to Auditor: Auditors shall use their professional judgment to determine whether the Transmission Operator personnel have knowledge of operational functionality and effects of those Composite Protection Systems and Remedial Action Schemes that are necessary to perform its Operational Planning Analyses, Real-time monitoring, and Real-time Assessments.

The documentation provided, including training if provided, should be specific to the operational functionality and effects of those Composite Protection Systems and Remedial Action Schemes that are necessary for the entity to perform its Operational Planning Analyses, Real-time monitoring, and Real-time Assessments.

Auditor Notes:	

R2 Supporting Evidence and Documentation

- **R2.** Each Balancing Authority shall ensure its personnel (responsible for Reliable Operation of its Balancing Authority Area) have knowledge of operational functionality and effects of Composite Protection Systems and Remedial Action Schemes that are necessary to perform its Real-time monitoring in order to maintain generation, Load, and Interchange balance.
- M2. Each Balancing Authority shall provide evidence to demonstrate the method(s) used to ensure its personnel have the knowledge according to Requirement R2. Evidence may include, but is not limited to, the following: training (including the effects on the BES), operating guides, manuals, procedures, output of operational tools (e.g., databases or analysis programs), or outcomes of Real-time monitoring that identify the impacts on the BES.

Registered Entity Response (Required):

Compliance Narrative:

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requestedi:

Provide the following evidence, or other evidence to demonstrate compliance.

Evidence that the entity identified the responsible personnel and set of applicable Composite Protection Systems and Remedial Action Schemes necessary to perform the entity's Real-time monitoring.

Evidence that demonstrates the method(s) used, such as training, operating guides, manuals, procedures, output of operational tools, or outcomes of analyses, monitoring and assessments, to ensure the entity's personnel have the knowledge of operational functionality and effects of those Composite Protection Systems and Remedial Action Schemes.

Registered Entity Evidence (Required):

The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.

	File Name	Document Title	Revision or Version	Document Date	Relevant Page(s) or Section(s)	Description of Applicability of Document
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Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):

Compliance Assessment Approach Specific to TOP-009-1, R2

This section to be completed by the Compliance Enforcement Authority

Review evidence and verify the entity has identified its responsible personnel and set of applicable Composite Protection Systems and Remedial Action Schemes necessary to perform the entity's Real-time monitoring.

For all, or a sample, review evidence and verify the entity's methods to ensure its personnel have knowledge of operational functionality and effects of those Composite Protection Systems and Remedial Action Schemes that are necessary to perform its Real-time monitoring.

Note to Auditor: Auditors shall use their professional judgment to determine whether the Balancing Authority personnel have knowledge of operational functionality and effects of those Composite Protection Systems and Remedial Action Schemes that are necessary to perform Real-time monitoring to maintain generation, Load, and Interchange balance.

The documentation provided, including training if provided, should be specific to the operational functionality and effects of those Composite Protection Systems and Remedial Action Schemes that are necessary for the entity to perform Real-time monitoring to maintain generation, Load, and Interchange balance.

Auditor Notes:		

R3 Supporting Evidence and Documentation

- **R3.** Each Generator Operator shall ensure personnel responsible for Real-time control of a Facility have knowledge of operational functionality of BES Composite Protection Systems; and Remedial Action Schemes that affect output of the Facility.
- M3. Each Generator Operator shall provide evidence to demonstrate the method(s) used to ensure its personnel have the knowledge according to Requirement R3. Evidence may include, but is not limited to, the following: training (including the effects on the generating Facilities), operating guides, manuals, procedures, interconnection agreements or studies, or access to third-party documentation.

Registered Entity Response (Required):

Compliance Narrative:

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requestedⁱ:

Provide the following evidence, or other evidence to demonstrate compliance.

Evidence that the entity identified the responsible personnel and set of applicable Composite Protection Systems and Remedial Action Schemes.

Evidence that demonstrates the method(s) used, such as training, operating guides, manuals, procedures, interconnection agreements or studies, or access to third-party documentation, to ensure that the entity's personnel have knowledge of operational functionality and effects of those Composite Protection Systems and Remedial Action Schemes.

Registered Entity Evidence (Required):

The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.

File Name	Document Title	Revision or Version	Document Date	Relevant Page(s) or Section(s)	Description of Applicability of Document

Αι	Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):			

Compliance Assessment Approach Specific to TOP-009-1, R3

This section to be completed by the Compliance Enforcement Authority

Review evidence and verify the entity has identified its responsible personnel and set of applicable Composite Protection Systems and Remedial Action Schemes.

For all, or a sample, review evidence and verify the entity's methods to ensure its personnel have knowledge of operational functionality of Composite Protection Systems; and Remedial Action Schemes that affect output of the Facility.

Note to Auditor: Auditors shall use their professional judgment to determine whether the Generator Operator personnel have knowledge of Composite Protection Systems; and Remedial Action Schemes that affect output of the Facility.

The documentation provided, including training if provided, should be specific to the operational functionality of Composite Protection Systems and Remedial Action Schemes that affect output of the Facility.

Auditor Notes:	

Additional Information:

Reliability Standard

The RSAW developer should provide the following information without hyperlinks. Update the information below as appropriate.

The full text of STD-0XX-N may be found on the NERC Web Site (www.nerc.com) under "Program Areas & Departments", "Reliability Standards."

In addition to the Reliability Standard, there is an applicable Implementation Plan available on the NERC Web Site.

In addition to the Reliability Standard, there is background information available on the NERC Web Site.

Capitalized terms in the Reliability Standard refer to terms in the NERC Glossary, which may be found on the NERC Web Site.

Sampling Methodology [If developer deems reference applicable]

Sampling is essential for auditing compliance with NERC Reliability Standards since it is not always possible or practical to test 100% of either the equipment, documentation, or both, associated with the full suite of enforceable standards. The Sampling Methodology Guidelines and Criteria (see NERC website), or sample guidelines, provided by the Electric Reliability Organization help to establish a minimum sample set for monitoring and enforcement uses in audits of NERC Reliability Standards.

Regulatory Language [Developer to ensure RSAW has been provided to NERC Legal for links to appropriate Regulatory Language – See example below]

E.g. FERC Order No. 742 paragraph 34: "Based on NERC's......

E.g. FERC Order No. 742 Paragraph 55, Commission Determination: "We affirm NERC's......

Selected Glossary Terms [If developer deems applicable]

The following Glossary terms are provided for convenience only. Please refer to the NERC web site for the current enforceable terms.

Composite Protection Systems – The total complement of Protection System(s) that function collectively to protect an Element. Backup protection provided by a different Element's Protection System(s) is excluded.

Element – Any electrical device with terminals that may be connected to other electrical devices such as a generator, transformer, circuit breaker, bus section, or transmission line. An element may be comprised of one or more components.

Revision History for RSAW

Version	Date	Reviewers	Revision Description
		NERC Compliance	New Document
1	08/12/2015	Assurance, RSAW Task	
		Force	
2	10/20/2015	NERC Compliance	Revised RSAW to align with revised Reliability
		Assurance, RSAW Task	Standard – Posting 6 October 2015
		Force	

Revision History for RSAW Template

Version	Date	Reviewers	Revision Description
0.9	11/6/2013	RSAW Working Group	Initial Draft
1.0	11/20/2013	CMFG	First Review
1.1	12/1/2014	RSAW TF, CMFG	Minor text changes
1.2	2/17/2014	Jerry Hedrick	Removed Internal Controls approach for
			additional consideration

ⁱ Items in the Evidence Requested section are suggested evidence that may, but will not necessarily, demonstrate compliance. These items are not mandatory and other forms and types of evidence may be submitted at the entity's discretion.