

Reliability Standard Audit Worksheet¹

CIP-003-11 – Cyber Security — Security Management Controls

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

	BA	DP	GO	GOP	PA/PC	RC	RP	RSG	TO	TOP	TP	TSP
R1	X	*	X	X		X			X	X		
R2	X	*	X	X		X			X	X		
R3	X	*	X	X		X			X	X		
R4	X	*	X	X		X			X	X		

* CIP-003-11 is only applicable to DPs that own certain UFLS, UVLS, RAS, Protection Systems, or Cranking Paths. See CIP-003-11 Section 4, Applicability, for details.

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

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.

The RSAW may provide 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 reserve the right to request additional evidence from the registered entity that is not included in this RSAW. This RSAW may include excerpts from FERC Orders and other regulatory references which 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.

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

NERC Reliability Standard Audit Worksheet

Findings

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

Req.	Finding	Summary and Documentation	Functions Monitored
R1			
R2			
R3			
R4			

Req.	Areas of Concern

Req.	Recommendations

Req.	Positive Observations

NERC Reliability Standard Audit Worksheet

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)

NERC Reliability Standard Audit Worksheet

R1 Supporting Evidence and Documentation

- R1.** Each Responsible Entity shall review and obtain CIP Senior Manager approval at least once every 15 calendar months for one or more documented cyber security policies that collectively address the following topics:
[Violation Risk Factor: Medium] [Time Horizon: Operations Planning]
- 1.1.** For its high impact and medium impact (BCS), if any:
 - 1.1.1.** Personnel and training (CIP-004);
 - 1.1.2.** Electronic Security Perimeters (CIP-005) including Interactive Remote Access;
 - 1.1.3.** Physical security of BCS (CIP-006);
 - 1.1.4.** System security management (CIP-007);
 - 1.1.5.** Incident reporting and response planning (CIP-008);
 - 1.1.6.** Recovery plans for BCS (CIP-009);
 - 1.1.7.** Configuration change management and vulnerability assessments (CIP-010);
 - 1.1.8.** Information protection (CIP-011); and
 - 1.1.9.** Declaring and responding to CIP Exceptional Circumstances.
 - 1.2.** For its assets identified in CIP-002 containing low impact BCS, if any:
 - 1.2.1.** Cyber security awareness;
 - 1.2.2.** Physical security controls;
 - 1.2.3.** Electronic access controls;
 - 1.2.4.** Cyber Security Incident response;
 - 1.2.5.** Transient Cyber Assets (TCA) and Removable Media malicious code risk mitigation; and
 - 1.2.6.** Declaring and responding to CIP Exceptional Circumstances.
- M1.** Examples of evidence may include, but are not limited to, policy documents; revision history, records of review, or workflow evidence from a document management system that indicate review of each cyber security policy at least once every 15 calendar months; and documented approval by the CIP Senior Manager for each cyber security policy.

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.

NERC Reliability Standard Audit Worksheet

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

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

NERC Reliability Standard Audit Worksheet

Compliance Assessment Approach Specific to CIP-003-11, R1

This section to be completed by the Compliance Enforcement Authority

	<p>For its high impact and medium impact BCS, if any, verify the Responsible Entity has documented one or more cyber security policies that collectively address the following topics:</p> <ol style="list-style-type: none"> 1. Personnel and training (CIP-004); 2. Electronic Security Perimeters (CIP-005) including Interactive Remote Access; 3. Physical security of BCS (CIP-006); 4. System security management (CIP-007); 5. Incident reporting and response planning (CIP-008); 6. Recovery plans for BCS (CIP-009); 7. Configuration change management and vulnerability assessments (CIP-010); 8. Information protection (CIP-011); and 9. Declaring and responding to CIP Exceptional Circumstances.
	<p>For its assets identified in CIP-002 containing low impact BCS, if any, verify the Responsible Entity has documented one or more cyber security policies that collectively address the following topics:</p> <ol style="list-style-type: none"> 1. Cyber security awareness; 2. Physical security controls; 3. Electronic access controls; 4. Cyber Security Incident response; 5. TCA and Removable Media malicious code risk mitigation; and 6. Declaring and responding to CIP Exceptional Circumstances.
	<p>Verify each policy used to meet this Requirement has been reviewed at least once every 15 calendar months.</p>
	<p>Verify the CIP Senior Manager has approved each policy used to meet this Requirement at least once every 15 calendar months.</p>
	<p>Verify the Responsible Entity has achieved the security objective of instituting cyber security policies that will preserve the availability, integrity, and confidentiality of systems that support the reliable operation of the BES.</p>
<p>Note to Auditor: Per Attachment 1, “Responsible Entities with multiple-impact BCS ratings can utilize policies, procedures, and processes for their high or medium impact BCS to fulfill the sections for the development of low impact cyber security plan(s). Each Responsible Entity can develop a cyber security plan(s) either by individual asset or groups of assets.”</p>	

Auditor Notes:

NERC Reliability Standard Audit Worksheet

R2 Supporting Evidence and Documentation

R2. Each Responsible Entity with at least one asset identified in CIP-002 containing low impact BCS shall implement one or more documented cyber security plan(s) for its low impact BCS, and Shared Cyber Infrastructure (SCI) that supports a low impact BCS, that include the sections in Attachment 1. *[Violation Risk Factor: Lower] [Time Horizon: Operations Planning]*

Note: An inventory, list, or discrete identification of low impact BCS or their BES Cyber Assets (BCA) is not required. Lists of authorized users are not required.

M2. Evidence shall include each of the documented cyber security plan(s) that collectively include each of the sections in Attachment 1 and additional evidence to demonstrate implementation of the cyber security plan(s). Additional examples of evidence per section are located in Attachment 2.

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.

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

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

NERC Reliability Standard Audit Worksheet

Compliance Assessment Approach Specific to CIP-003-11, R2

This section to be completed by the Compliance Enforcement Authority

<p><u>Attachment 1, Section 1</u> For each asset containing a low impact BCS, verify that the Responsible Entity has documented a plan to reinforce cyber security practices (which may include associated physical security practices) at least once every 15 calendar months.</p>
<p><u>Attachment 1, Section 1</u> For each asset containing a low impact BCS, verify that the Responsible Entity has implemented its plan to reinforce cyber security practices (which may include associated physical security practices) at least once every 15 calendar months.</p>
<p><u>Attachment 1, Section 1</u> For each asset containing a low impact BCS, verify that the Responsible Entity has achieved the security objective of ensuring personnel with access to low impact BCS remain aware of cyber security practices.</p>
<p><u>Attachment 1, Section 2</u> For each asset containing a low impact BCS, verify that the Responsible Entity has documented a plan to control physical access, based on need as determined by the Responsible Entity, to:</p> <ol style="list-style-type: none"> 1. The asset or the locations of the low impact BCS within the asset; and 2. The Cyber Asset(s) or Virtual Cyber Asset (VCA), as specified by the Responsible Entity, that provide electronic access control(s) implemented for Section 3.1.1, if any.
<p><u>Attachment 1, Section 2</u> For each asset containing a low impact BCS, verify that the Responsible Entity has implemented its plan to control physical access.</p>
<p><u>Attachment 1, Section 2</u> For each asset containing a low impact BCS, verify that the Responsible Entity has achieved the security objective of controlling physical access to:</p> <ol style="list-style-type: none"> 1. The asset or the locations of the low impact BCS within the asset; and 2. The Cyber Asset(s) or VCA, as specified by the Responsible Entity, that provide electronic access control(s) implemented for Section 3.1, if any.
<p><u>Attachment 1, Section 3.1</u> For each asset containing a low impact BCS and for SCI that supports a low impact BCS, if any, verify that the Responsible Entity has documented a plan to control electronic access as outlined below:</p> <ol style="list-style-type: none"> i. Between: <ul style="list-style-type: none"> • a low impact BCS; or • an SCI that supports a low impact BCS; and a Cyber System(s) outside the asset containing: <ul style="list-style-type: none"> • the low impact BCS(s); or • the SCI that supports a low impact BCS. ii. Using a routable protocol when entering or leaving the asset containing the low impact BCS or SCI that supports a low impact BCS; and

NERC Reliability Standard Audit Worksheet

	<p>iii. Not used for time-sensitive communications of Protection Systems.</p>
	<p><u>Attachment 1, Section 3.1</u> For each asset containing a low impact BCS, and for SCI that supports a low impact BCS, if any, verify that the Responsible Entity has implemented one or more controls, where Section 3.1 Parts (i), (ii), and (iii) are met that:</p> <p>3.1.1 Permit only necessary inbound and outbound electronic access as determined by the Responsible Entity;</p> <p>3.1.2 Detect known or suspected malicious communications for both inbound and outbound electronic access;</p> <p>3.1.3 Authenticate each user prior to permitting access to a network(s) containing low impact BCS or SCI that supports a low impact BCS, through which user-initiated electronic access applicable to Section 3.1 is subsequently permitted;</p> <p>3.1.4 Protect user authentication information for user-initiated electronic access applicable to Section 3.1.3 while in transit between the Cyber System(s) outside the asset containing low impact BCS or SCI that supports a low impact BCS and</p> <ul style="list-style-type: none"> • the authentication system used to meet Section 3.1.3, or • the asset containing low impact BCS or SCI that supports a low impact BCS; <p>3.1.5 Include one or more method(s) for determining vendor electronic access, where vendor electronic access is permitted; and</p> <p>3.1.6 Include one or more methods for disabling vendor electronic access where vendor electronic access is permitted.</p>
	<p><u>Attachment 1, Section 3.1</u> For each asset containing a low impact BCS, and for SCI that supports a low impact BCS, if any, verify that the Responsible Entity has achieved the security objective of implementing one or more controls for Section 3.1, where Section 3.1. Parts (i), (ii), and (iii) are met.</p>
	<p><u>Attachment 1, Section 3.2</u> For each asset containing a low impact BCS and for SCI that supports a low impact BCS, if any, verify that the Responsible Entity has documented a plan to authenticate all Dial-up Connectivity, if any, that provides access to low impact BCS or SCI that supports a low impact BCS, per system capability.</p>
	<p><u>Attachment 1, Section 3.2</u> For each asset containing a low impact BCS and for SCI that supports a low impact BCS, if any, verify that the Responsible Entity has implemented the plan to authenticate Dial-up Connectivity.</p>
	<p><u>Attachment 1, Section 3.2</u> For each asset containing a low impact BCS and for SCI that supports a low impact BCS, if any, verify that the Responsible Entity has achieved the security objective of authenticating all Dial-up Connectivity, per system capability, where such connectivity permits access to its low impact BCS or SCI that supports a low impact BCS.</p>
	<p><u>Attachment 1, Section 4</u> For each asset containing a low impact BCS, verify that the Responsible Entity has</p>

NERC Reliability Standard Audit Worksheet

<p>documented one or more Cyber Security Incident response plan(s) that include:</p> <ol style="list-style-type: none"> 1. Identification, classification, and response to Cyber Security Incidents; 2. Determination of whether an identified Cyber Security Incident is a Reportable Cyber Security Incident and subsequent notification to the Electricity Information Sharing and Analysis Center (E-ISAC), unless prohibited by law; 3. Identification of the roles and responsibilities for Cyber Security Incident response by groups or individuals; 4. Incident handling for Cyber Security Incidents; 5. Testing each Cyber Security Incident response plan at least once every 36 calendar months by: (1) responding to an actual Reportable Cyber Security Incident; (2) using a drill or tabletop exercise of a Reportable Cyber Security Incident; or (3) using an operational exercise of a Reportable Cyber Security Incident; and 6. Updating the Cyber Security Incident response plan(s), if needed, within 180 calendar days after completion of a Cyber Security Incident response plan(s) test or actual Reportable Cyber Security Incident.
<p><u>Attachment 1, Section 4</u> For each asset containing a low impact BCS, if the Responsible Entity responded to a Cyber Security Incident, verify the Responsible Entity implemented the Cyber Security Incident response plan.</p>
<p><u>Attachment 1, Section 4.5</u> Verify the Responsible Entity tested each Cyber Security Incident response plan at least once every 36 calendar months by: (1) responding to an actual Reportable Cyber Security Incident; (2) using a drill or tabletop exercise of a Reportable Cyber Security Incident; or (3) using an operational exercise of a Reportable Cyber Security Incident.</p>
<p><u>Attachment 1, Section 4.6</u> Verify the Responsible Entity updated each Cyber Security Incident response plan, if needed, within 180 calendar days after completion of a Cyber Security Incident response plan(s) test or actual Reportable Cyber Security Incident.</p>
<p><u>Attachment 1, Section 4</u> Verify the Responsible Entity is prepared to achieve the security objective of minimizing the adverse impact to the BES of a possible Cyber Security Incident affecting low impact BCS.</p>
<p><u>Attachment 1, Section 5.1, 5.2, 5.2.1</u> Verify the Responsible Entity has documented one or more plans to mitigate the risk of the introduction of malicious code to low impact BCS through the use of TCA.</p>
<p><u>Attachment 1, Section 5.1, 5.2, 5.2.1</u> Verify the Responsible Entity has implemented its plans to mitigate the risk of the introduction of malicious code to low impact BCS through the use of TCA.</p>
<p><u>Attachment 1, Section 5.1, 5.2, 5.2.1</u> Verify the Responsible Entity has achieved the objective of mitigating the risk of the introduction of malicious code to low impact BCS through the use of</p>

NERC Reliability Standard Audit Worksheet

	TCA.
	<p><u>Attachment 1, Section 5.2.2</u> For any method used pursuant to 5.2.1, verify the Responsible Entity has determined whether any additional mitigation actions are necessary and has implemented such actions prior to connecting the TCA.</p>
	<p><u>Attachment 1, Section 5.3.1</u> Verify the Responsible Entity has documented one or more plans to detect malicious code on Removable Media using a Cyber Asset or VCA other than a BCS or SCI that supports a low impact BCS.</p>
	<p><u>Attachment 1, Section 5.3.2</u> Verify the Responsible Entity has documented one or more plans to mitigate the threat of detected malicious code on the Removable Media prior to connecting Removable Media to a low impact BCS or SCI that supports a low impact BCS.</p>
	<p><u>Attachment 1, Section 5.3</u> Verify the Responsible Entity has implemented its plans to mitigate the risk of the introduction of malicious code to low impact BCS or SCI that supports a low impact BCS through the use of Removable Media.</p>
	<p><u>Attachment 1, Section 5.3</u> Verify the Responsible Entity has achieved the objective of mitigating the risk of the introduction of malicious code to low impact BCS or SCI that supports a low impact BCS through the use of Removable Media.</p>
<p>Note to Auditor: <u>Attachment 1, Section 3</u></p> <ol style="list-style-type: none"> 1. For each asset identified as containing a low impact BCS per CIP-002, the list of assets should identify those assets that have routable protocol communications between low impact BCS; or an SCI that supports a low impact BCS and a Cyber System(s) outside the asset containing: the low impact BCS(s); or the SCI that supports a low impact BCS when entering or leaving the asset and not used for time-sensitive protection or time-sensitive control functions. <ol style="list-style-type: none"> a. For these identified assets, obtain as evidence the devices used to control electronic access and the low impact BCS for which they control access. 2. For each asset identified as containing a low impact BCS per CIP-002, the Responsible Entity has an obligation to determine the necessary inbound and outbound routable protocol communications between low impact BCS and SCI that supports a low impact BCS outside the asset containing: the low impact BCS when entering or leaving the asset and not used for time-sensitive protection or time-sensitive control functions. The Responsible Entity must be able to provide a technically sound explanation as to how its electronic access permissions and controls are consistent with the security objective of permitting only necessary inbound and outbound access to low impact BCS. 3. The audit team should assess the effectiveness of the Responsible Entity's electronic 	

NERC Reliability Standard Audit Worksheet

access control plan as well as the Responsible Entity's adherence to its electronic access control plan.

4. For the inbound and outbound communications that the Responsible Entity has determined to be necessary, the Responsible Entity must identify the electronic access controls used to effectively control access to and from the low impact BCS.

Attachment 1, Section 5

1. The means of verifying the mitigation of the introduction of malicious code to a low impact BCS differs depending on whether a TCA is managed by the Responsible Entity in an ongoing or an on-demand manner. The verification for a TCA managed in an ongoing manner focuses on the process of preventing malware from being introduced to the TCA. The verification for a TCA managed in an on-demand manner focuses on the process used to ensure the TCA may be safely used in a low impact BCS environment prior to such use. If the TCA is managed in both an ongoing and an on-demand manner, then both verification techniques should be employed.

Auditor Notes:

NERC Reliability Standard Audit Worksheet

R3 Supporting Evidence and Documentation

- R3.** Each Responsible Entity shall identify a CIP Senior Manager by name and document any change within 30 calendar days of the change. *[Violation Risk Factor: Medium] [Time Horizon: Operations Planning]*
- M3.** An example of evidence may include, but is not limited to, a dated and approved document from a high-level official designating the name of the individual identified as the CIP Senior Manager.

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.

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

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

Compliance Assessment Approach Specific to CIP-003-11, R3

This section to be completed by the Compliance Enforcement Authority

	Verify the CIP Senior Manager has been identified by name.
	Verify that any changes made to the CIP Senior Manager were dated and documented within 30 calendar days of the change.
	Verify the CIP Senior Manager is a single senior management official with overall authority and responsibility for leading and managing implementation of and continuing adherence to the requirements within the NERC CIP Standards, CIP-002 through CIP-015.

Auditor Notes:

NERC Reliability Standard Audit Worksheet

R4 Supporting Evidence and Documentation

- R4.** The Responsible Entity shall implement a documented process to delegate authority, unless no delegations are used. Where allowed by the CIP Standards, the CIP Senior Manager may delegate authority for specific actions to a delegate or delegates. These delegations shall be documented, including the name or title of the delegate, the specific actions delegated, and the date of the delegation; approved by the CIP Senior Manager; and updated within 30 days of any change to the delegation. Delegation changes do not need to be reinstated with a change to the delegator. *[Violation Risk Factor: Lower] [Time Horizon: Operations Planning]*
- M4.** An example of evidence may include, but is not limited to, a dated document, approved by the CIP Senior Manager, listing individuals (by name or title) who are delegated the authority to approve or authorize specifically identified items.

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.

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

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

Compliance Assessment Approach Specific to CIP-003-11, R4

This section to be completed by the Compliance Enforcement Authority

	Verify that the Responsible Entity has documented a process to delegate authority, unless no delegations are used.
	Verify that all delegates have been identified by name or title.
	Verify that the delegation of authority includes the specific action delegated.
	Verify specific actions delegated by the CIP Senior Manager are allowed by the CIP Standards.
	Verify that the dates for all delegations have been recorded.
	Verify that the CIP Senior Manager approved all delegations.

NERC Reliability Standard Audit Worksheet

	Verify that any changes made to delegations were dated and documented within 30 days of the change.
Note to Auditor: Delegations of the CIP Senior Manager’s authority are permitted for the required approvals in CIP-002-7, Requirement R2, CIP-007-7, Requirement R2, Part 2.4, and CIP-013-3 R3.	

Auditor Notes:

NERC Reliability Standard Audit Worksheet

Additional Information:

Reliability Standard

The full text of CIP-003-11 may be found on the NERC Web Site (www.nerc.com) under “Program Areas & Departments”, “Standards”, “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

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

See FERC Order 822

Attachment 1

Required Sections for Cyber Security Plan(s)

Responsible Entities shall include each of the sections provided below in the cyber security plan(s) required under Requirement R2.

Responsible Entities with multiple-impact BCS ratings can utilize policies, procedures, and processes for their high or medium impact BCS including any supporting SCI to fulfill the sections for the development of low impact cyber security plan(s). Each Responsible Entity can develop a cyber security plan(s) either by individual asset or groups of assets.

Section 1. Cyber Security Awareness: Each Responsible Entity shall reinforce, at least once every 15 calendar months, cyber security practices (which may include associated physical security practices).

Section 2. Physical Security Controls: Each Responsible Entity shall control physical access, based on need, as determined by the Responsible Entity, to (1) the asset or the locations of the low impact BCS within the asset, and (2) the Cyber Asset(s) or Virtual Cyber Asset (VCA), as specified by the Responsible Entity, that provide electronic access control(s) implemented for Section 3.1.1, if any.

Section 3. Electronic Access Controls: Each Responsible Entity shall control electronic access as outlined below.

3.1 For each asset containing low impact BCS identified pursuant to CIP-002 and for SCI that supports a low impact BCS, if any, where electronic access is:

i. Between:

- a low impact BCS; or
- an SCI that supports a low impact BCS

and a Cyber System(s) outside the asset containing:

- the low impact BCS(s); or
- the SCI that supports a low impact BCS;

ii. using a routable protocol when entering or leaving the asset containing the low impact BCS or SCI that supports a low impact BCS; and

iii. not used for time-sensitive communications of Protection Systems;

the Responsible Entity shall implement one or more controls, where Section 3.1. Parts (i), (ii), and (iii) are met, that:

3.1.1 Permit only necessary inbound and outbound electronic access as determined by the Responsible Entity;

3.1.2 Detect known or suspected malicious communications for both inbound and outbound electronic access;

3.1.3 Authenticate each user prior to permitting access to a network(s) containing

NERC Reliability Standard Audit Worksheet

low impact BCS or SCI that supports a low impact BCS, through which user-initiated electronic access applicable to Section 3.1 is subsequently permitted;

- 3.1.4** Protect user authentication information for user-initiated electronic access applicable to Section 3.1.3 while in transit between the Cyber System(s) outside the asset containing low impact BCS or SCI that supports a low impact BCS and
- the authentication system used to meet Section 3.1.3, or
 - the asset containing low impact BCS or SCI that supports a low impact BCS;
- 3.1.5** Include one or more method(s) for determining vendor electronic access, where vendor electronic access is permitted; and
- 3.1.6** Include one or more method(s) for disabling vendor electronic access, where vendor electronic access is permitted.

- 3.2** For each asset containing low impact BCS identified pursuant to CIP-002 and for SCI that supports a low impact BCS, if any, the Responsible Entity shall implement one or more control(s) that authenticate all Dial-up Connectivity, if any, that provides access to low impact BCS or SCI that supports a low impact BCS, per system capability.

Section 4. Cyber Security Incident Response: Each Responsible Entity shall have one or more Cyber Security Incident response plan(s), either by asset or group of assets, which shall include:

- 4.1** Identification, classification, and response to Cyber Security Incidents;
- 4.2** Determination of whether an identified Cyber Security Incident is a Reportable Cyber Security Incident and subsequent notification to the Electricity Information Sharing and Analysis Center (E-ISAC), unless prohibited by law;
- 4.3** Identification of the roles and responsibilities for Cyber Security Incident response by groups or individuals;
- 4.4** Incident handling for Cyber Security Incidents;
- 4.5** Testing the Cyber Security Incident response plan(s) at least once every 36 calendar months by: (1) responding to an actual Reportable Cyber Security Incident; (2) using a drill or tabletop exercise of a Reportable Cyber Security Incident; or (3) using an operational exercise of a Reportable Cyber Security Incident; and
- 4.6** Updating the Cyber Security Incident response plan(s), if needed, within 180 calendar days after completion of a Cyber Security Incident response plan(s) test or actual Reportable Cyber Security Incident.

Section 5. TCA and Removable Media Malicious Code Risk Mitigation: Each Responsible Entity shall implement, except under CIP Exceptional Circumstances, one or more plan(s) to achieve the objective of mitigating the risk of the introduction of malicious code to low impact BCS, through the use of TCA or Removable Media. The plan(s) shall include:

NERC Reliability Standard Audit Worksheet

- 5.1** For TCA managed by the Responsible Entity, if any, the use of one or a combination of the following in an ongoing or on-demand manner (per TCA capability):
- Antivirus software, including manual or managed updates of signatures or patterns;
 - Application whitelisting; or
 - Other method(s) to mitigate the introduction of malicious code.
- 5.2** For TCA managed by a party other than the Responsible Entity, if any:
- 5.2.1** Use one or a combination of the following prior to connecting (per TCA capability):
- Review of antivirus update level;
 - Review of antivirus update process used by the party;
 - Review of application whitelisting used by the party;
 - Review of system hardening used by the party; or
 - Review of other method(s) to mitigate the risk of introduction of malicious code.
- 5.2.2** For any method used pursuant to 5.2.1, Responsible Entities shall determine whether any additional mitigation actions are necessary and implement such actions prior to connecting the TCA.
- 5.3** For Removable Media, the use of each of the following:
- 5.3.1** Method(s) to detect malicious code on Removable Media using a Cyber Asset or VCA other than a BCS or SCI that supports a low impact BCS; and
- 5.3.2** Mitigation of the threat of detected malicious code on the Removable Media prior to connecting Removable Media to a low impact BCS or SCI that supports a low impact BCS.

Attachment 2

Examples of Evidence for Cyber Security Plan(s)

Section 1. Cyber Security Awareness: An example of evidence for Section 1 may include, but is not limited to, documentation that the reinforcement of cyber security practices occurred at least once every 15 calendar months. The evidence could be documentation through one or more of the following methods:

- Direct communications (for example, e-mails, memos, or computer-based training);
- Indirect communications (for example, posters, intranet, or brochures); or
- Management support and reinforcement (for example, presentations or meetings).

Section 2. Physical Security Controls: Examples of evidence for Section 2 may include, but are not limited to:

- Documentation of the selected access control(s) (e.g., card key, locks, perimeter controls), monitoring controls (e.g., alarm systems, human observation), or other operational, procedural, or technical physical security controls that control physical access to both:
 - a. The asset, if any, or the locations of the low impact BCS within the asset; and
 - b. The Cyber System(s) specified by the Responsible Entity that provide(s) electronic access controls implemented for Attachment 1, Section 3.1.1, if any.

Section 3. Electronic Access Controls: Examples of evidence for Section 3 may include, but are not limited to:

1. For Section 3.1.1, documentation showing the permittance of only inbound and outbound electronic access, where electronic access meets Section 3.1, Parts (i), (ii), and (iii), that the Responsible Entity deems necessary, such as:
 - Representative diagrams that illustrate control of inbound and outbound communication(s) between the low impact BCS or SCI that supports a low impact BCS and a Cyber System outside the asset containing low impact BCS.
 - Lists of implemented electronic access controls (e.g., access control lists restricting IP addresses, ports, or services; implementing unidirectional gateways); or
 - Original equipment manufacturer (OEM) specification sheets that provide rationale around necessary electronic access.
2. For Section 3.1.2, documentation showing the ability to detect known or suspected malicious communications for both inbound and outbound electronic access, where electronic access meets Section 3.1, Parts (i), (ii), and (iii), such as:
 - Anti-malware technologies;
 - Intrusion detection system (IDS)/intrusion prevention system (IPS);
 - Monitor or alert for changes to communication baselines;
 - Logging and alerting configuration for security incident and event management (SIEM) systems or other event correlation systems;

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- Automated or manual log reviews;
 - Alerting; or
 - Other operational, procedural, or technical controls.
3. For Section 3.1.3, documentation showing the ability to authenticate each user prior to permitting access to a network(s) containing low impact BCS or SCI that supports a low impact BCS through which user-initiated electronic access applicable to Section 3.1 is subsequently permitted, such as:
- Authentication mechanism(s) including but not limited to:
 - Utilization of public key infrastructure (PKI), lightweight directory access protocol (LDAP), remote authentication dial-in user service (RADIUS), and/or similar implemented solutions; or
 - Enforcement of multi-factor authentication (MFA).
 - Virtual private network (VPN) configuration(s) with logs demonstrating enforcement of username and password parameters;
 - Terminal server, jump server, access control device, or an Intermediate System also used with a High or Medium Impact BCS; or
 - Other operational, procedural, or technical controls.
4. For Section 3.1.4, documentation showing the ability to protect user authentication information for user-initiated electronic access applicable to Section 3.1.3 while in transit between the Cyber System outside the asset containing low impact BCS or SCI that supports a low impact BCS and
- The authentication system used to meet Section 3.1.3, or
 - The asset containing low impact BCS or SCI that supports a low impact BCS,
- such as protection mechanism(s) including, but not limited to:
- Implementation of an encrypted protocol or service (hypertext transfer protocol secure (HTTPS), secure shell (SSH), etc.);
 - Implementation of an IPsec or secure sockets layer (SSL) VPN; or
 - Other operational, procedural, or technical controls.
5. For Section 3.1.5 documentation showing one or more methods for determining vendor electronic access, where vendor electronic access is permitted and electronic access meets Section 3.1, Parts (i), (ii), and (iii), such as:
- Steps to preauthorize access;
 - Alerts generated by vendor log on;
 - Session monitoring;

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- Security information management logging alerts;
 - Time-of-need session initiation;
 - Session recording;
 - System logs; or
 - Other operational, procedural, or technical controls.
6. For Section 3.1.6, documentation showing one or more methods for disabling vendor electronic access, where vendor electronic access is permitted and electronic access meets Section 3.1, Parts (i), (ii), and (iii), such as:
- Disabling vendor electronic access user or system accounts;
 - Disabling inbound and/or outbound hardware or software ports, services, or access permissions on applications, firewall, IDS/IPS, router, switch, VPN, remote desktop, remote control, or other hardware or software used for providing vendor electronic access;
 - Disabling communications protocols (such as IP) used for systems which establish and/or maintain vendor electronic access;
 - Removing physical layer connectivity (e.g., disconnect an Ethernet cable, power down equipment);
 - Administrative control documentation listing the methods, steps, or systems used to disable vendor electronic access; or
 - Other operational, procedural, or technical controls.
7. For Section 3.2, documentation of authentication for Dial-up Connectivity (e.g., dial out only to a preprogrammed number to deliver data, dial-back modems, modems that must be remotely controlled by the control center or control room, or access control on the BCS).

Section 4. Cyber Security Incident Response: An example of evidence for Section 4 may include, but is not limited to, dated documentation, such as policies, procedures, or process documents of one or more Cyber Security Incident response plan(s) developed either by asset or group of assets that include the following processes:

1. to identify, classify, and respond to Cyber Security Incidents; to determine whether an identified Cyber Security Incident is a Reportable Cyber Security Incident and for notifying the Electricity Information Sharing and Analysis Center (E-ISAC);
2. to identify and document the roles and responsibilities for Cyber Security Incident response by groups or individuals (e.g., initiating, documenting, monitoring, reporting, etc.);
3. for incident handling of a Cyber Security Incident (e.g., containment, eradication, or recovery/incident resolution);
4. for testing the plan(s) along with the dated documentation that a test has been completed at least once every 36 calendar months; and

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5. to update, as needed, Cyber Security Incident response plan(s) within 180 calendar days after completion of a test or actual Reportable Cyber Security Incident.

Section 5. TCA and Removable Media Malicious Code Risk Mitigation:

1. Examples of evidence for Section 5.1 may include, but are not limited to, documentation of the method(s) used to mitigate the introduction of malicious code such as antivirus software and processes for managing signature or pattern updates, application whitelisting practices, processes to restrict communication, or other method(s) to mitigate the introduction of malicious code. If a TCA does not have the capability to use method(s) that mitigate the introduction of malicious code, evidence may include documentation by the vendor or Responsible Entity that identifies that the TCA does not have the capability.
2. Examples of evidence for Section 5.2.1 may include, but are not limited to, documentation from change management systems, electronic mail or procedures that document a review of the installed antivirus update level; memoranda, electronic mail, system documentation, policies or contracts from the party other than the Responsible Entity that identify the antivirus update process, the use of application whitelisting, use of system hardening performed by the party other than the Responsible Entity; evidence from change management systems, electronic mail or contracts that identifies the Responsible Entity's acceptance that the practices of the party other than the Responsible Entity are acceptable; or documentation of other method(s) to mitigate malicious code for TCA managed by a party other than the Responsible Entity. If a TCA does not have the capability to use method(s) that mitigate the introduction of malicious code, evidence may include documentation by the Responsible Entity or the party other than the Responsible Entity that identifies that the TCA does not have the capability.

Examples of evidence for Attachment 1, Section 5.2.2 may include, but are not limited to, documentation from change management systems, electronic mail, or contracts that identifies a review to determine whether additional mitigation is necessary and has been implemented prior to connecting the TCA managed by a party other than the Responsible Entity.

3. Examples of evidence for Section 5.3.1 may include, but are not limited to, documented process(es) of the method(s) used to detect malicious code such as results of scan settings for Removable Media, or implementation of on-demand scanning. Examples of evidence for Section 5.3.2 may include, but are not limited to, documented process(es) for the method(s) used for mitigating the threat of detected malicious code on Removable Media, such as logs from the method(s) used to detect malicious code that show the results of scanning and the mitigation of detected malicious code on Removable Media or documented confirmation by the entity that the Removable Media was deemed to be free of malicious code.

Revision History for RSAW

Version	Date	Reviewers	Revision Description
DRAFT1v0	10/31/2024		Initial Draft