

Standard Development Timeline

This section is maintained by the drafting team during the development of the standard and will be removed when the standard becomes effective.

Development Steps Completed

1. SAR posted for comment on January 15, 2014
2. Standard Drafting Team appointed on January 29, 2014
3. First 45-Day Comment and Ballot Period concluded on July 16, 2014

Description of Current Draft

This draft standard is being posted for an additional comment period and ballot. The draft includes modifications to meet the directives of FERC Order No. 791.

Anticipated Actions	Anticipated Date
Additional 45-Day Comment Period	September 2014
Final Ballot is Conducted	October/November 2014
Board of Trustees (Board) Adoption	November 2014
Filing to Applicable Regulatory Authorities	December 2014

Version History

Version	Date	Action	Change Tracking
1	1/16/06	R3.2 — Change “Control Center” to “control center.”	3/24/06
2	9/30/09	<p>Modifications to clarify the requirements and to bring the compliance elements into conformance with the latest guidelines for developing compliance elements of standards.</p> <p>Removal of reasonable business judgment.</p> <p>Replaced the RRO with the RE as a responsible entity.</p> <p>Rewording of Effective Date.</p> <p>Changed compliance monitor to Compliance Enforcement Authority.</p>	
3	12/16/09	<p>Updated Version Number from -2 to -3</p> <p>In Requirement 1.6, deleted the sentence pertaining to removing component or system from service in order to perform testing, in response to FERC order issued September 30, 2009.</p>	
3	12/16/09	Approved by the NERC Board of Trustees.	
3	3/31/10	Approved by FERC.	
4	1/24/11	Approved by the NERC Board of Trustees.	
5	11/26/12	Adopted by the NERC Board of Trustees.	Modified to coordinate with other CIP standards and to revise format to use RBS Template.
5	11/22/13	FERC Order issued approving CIP-003-5.	
6	June 2014	Responding to FERC Order No. 791.	Revised

When this standard has received ballot approval, the text boxes will be moved to the Application Guidelines Section of the Standard.

A. Introduction

- 1. Title:** Cyber Security — Security Management Controls
- 2. Number:** CIP-003-6
- 3. Purpose:** To specify consistent and sustainable security management controls that establish responsibility and accountability to protect BES Cyber Systems against compromise that could lead to misoperation or instability in the BES.
- 4. Applicability:**
 - 4.1. Functional Entities:** For the purpose of the requirements contained herein, the following list of functional entities will be collectively referred to as “Responsible Entities.” For requirements in this standard where a specific functional entity or subset of functional entities are the applicable entity or entities, the functional entity or entities are specified explicitly.
 - 4.1.1 Balancing Authority**
 - 4.1.2 Distribution Provider** that owns one or more of the following Facilities, systems, and equipment for the protection or restoration of the BES:
 - 4.1.2.1** Each underfrequency Load shedding (UFLS) or undervoltage Load shedding (UVLS) system that:
 - 4.1.2.1.1** is part of a Load shedding program that is subject to one or more requirements in a NERC or Regional Reliability Standard; and
 - 4.1.2.1.2** performs automatic Load shedding under a common control system owned by the Responsible Entity, without human operator initiation, of 300 MW or more.
 - 4.1.2.2** Each Special Protection System or Remedial Action Scheme where the Special Protection System or Remedial Action Scheme is subject to one or more requirements in a NERC or Regional Reliability Standard.
 - 4.1.2.3** Each Protection System (excluding UFLS and UVLS) that applies to Transmission where the Protection System is subject to one or more requirements in a NERC or Regional Reliability Standard.
 - 4.1.2.4** Each Cranking Path and group of Elements meeting the initial switching requirements from a Blackstart Resource up to and including the first interconnection point of the starting station service of the next generation unit(s) to be started.
 - 4.1.3 Generator Operator**
 - 4.1.4 Generator Owner**

4.1.5 Interchange Coordinator or Interchange Authority

4.1.6 Reliability Coordinator

4.1.7 Transmission Operator

4.1.8 Transmission Owner

4.2. Facilities: For the purpose of the requirements contained herein, the following Facilities, systems, and equipment owned by each Responsible Entity in 4.1 above are those to which these requirements are applicable. For requirements in this standard where a specific type of Facilities, system, or equipment or subset of Facilities, systems, and equipment are applicable, these are specified explicitly.

4.2.1 Distribution Provider: One or more of the following Facilities, systems and equipment owned by the Distribution Provider for the protection or restoration of the BES:

4.2.1.1 Each UFLS or UVLS System that:

4.2.1.1.1 is part of a Load shedding program that is subject to one or more requirements in a NERC or Regional Reliability Standard; and

4.2.1.1.2 performs automatic Load shedding under a common control system owned by the Responsible Entity, without human operator initiation, of 300 MW or more.

4.2.1.2 Each Special Protection System or Remedial Action Scheme where the Special Protection System or Remedial Action Scheme is subject to one or more requirements in a NERC or Regional Reliability Standard.

4.2.1.3 Each Protection System (excluding UFLS and UVLS) that applies to Transmission where the Protection System is subject to one or more requirements in a NERC or Regional Reliability Standard.

4.2.1.4 Each Cranking Path and group of Elements meeting the initial switching requirements from a Blackstart Resource up to and including the first interconnection point of the starting station service of the next generation unit(s) to be started.

4.2.2 Responsible Entities listed in 4.1 other than Distribution Providers:

All BES Facilities.

4.2.3 Exemptions: The following are exempt from Standard CIP-003-6:

4.2.3.1 Cyber Assets at Facilities regulated by the Canadian Nuclear Safety Commission.

4.2.3.2 Cyber Assets associated with communication networks and data communication links between discrete Electronic Security Perimeters.

4.2.3.3 The systems, structures, and components that are regulated by the Nuclear Regulatory Commission under a cyber security plan pursuant to 10 C.F.R. Section 73.54.

4.2.3.4 For Distribution Providers, the systems and equipment that are not included in section 4.2.1 above.

5. Effective Dates:

Reliability Standard CIP-003-6 shall become effective on the later of April 1, 2016 or the first day of the first calendar quarter that is three calendar months after the date that the standard is approved by an applicable governmental authority, or as otherwise provided for in a jurisdiction where approval by an applicable governmental authority is required for a standard to go into effect. Where approval by an applicable governmental authority is not required, the standard shall become effective on the later of April 1, 2016 or the first day of the first calendar quarter that is three calendar months after the date the standard is adopted by the NERC Board of Trustees, or as otherwise provided for in that jurisdiction.

Registered Entities shall not be required to comply with Reliability Standard CIP-003-6, Requirement R1, Part 1.2 until the later of April 1, 2017 or nine calendar months after the effective date of Reliability Standard CIP-003-6.

Registered Entities shall not be required to comply with Reliability Standard CIP-003-6, Requirement R2 until the later of April 1, 2017 or nine calendar months after the effective date of Reliability Standard CIP-003-6.

Registered Entities shall not be required to comply with Reliability Standard CIP-003-6, Attachment 1, element 1 until the later of April 1, 2017 or nine calendar months after the effective date of Reliability Standard CIP-003-6.

Registered Entities shall not be required to comply with Reliability Standard CIP-003-6, Attachment 1, element 2 until the later of April 1, 2018 or nine calendar months after the effective date of Reliability Standard CIP-003-6.

Registered Entities shall not be required to comply with Reliability Standard CIP-003-6, Attachment 1, element 3 until the later of September 1, 2018 or nine calendar months after the effective date of Reliability Standard CIP-003-6.

Registered Entities shall not be required to comply with Reliability Standard CIP-003-6, Attachment 1, element 4 until the later of April 1, 2017 or nine calendar months after the effective date of Reliability Standard CIP-003-6.

6. Background:

Standard CIP-003 exists as part of a suite of CIP Standards related to cyber security, which require the initial identification and categorization of BES Cyber Systems and require a minimum level of organizational, operational, and procedural controls to mitigate risk to BES Cyber Systems.

The term *policy* refers to one or a collection of written documents that are used to communicate the Responsible Entities' management goals, objectives and expectations for how the Responsible Entity will protect its BES Cyber Systems. The use of *policies* also establishes an overall governance foundation for creating a culture of security and compliance with laws, regulations, and standards.

The term *documented processes* refers to a set of required instructions specific to the Responsible Entity and to achieve a specific outcome. This term does not imply any naming or approval structure beyond what is stated in the requirements. An entity should include as much as it believes necessary in its documented processes, but it must address the applicable requirements.

The terms *program* and *plan* are sometimes used in place of *documented processes* where it makes sense and is commonly understood. For example, documented processes describing a response are typically referred to as *plans* (i.e., incident response plans and recovery plans). Likewise, a security plan can describe an approach involving multiple procedures to address a broad subject matter.

Similarly, the term *program* may refer to the organization's overall implementation of its policies, plans and procedures involving a subject matter. Examples in the standards include the personnel risk assessment program and the personnel training program. The full implementation of the CIP Cyber Security Standards could also be referred to as a program. However, the terms *program* and *plan* do not imply any additional requirements beyond what is stated in the standards.

Responsible Entities can implement common controls that meet requirements for multiple high and medium impact BES Cyber Systems. For example, a single training program could meet the requirements for training personnel across multiple BES Cyber Systems.

Measures provide examples of evidence to show documentation and implementation of the requirement. These measures serve to provide guidance to entities in acceptable records of compliance and should not be viewed as an all-inclusive list.

Throughout the standards, unless otherwise stated, bulleted items in the requirements and measures are items that are linked with an "or," and numbered items are items that are linked with an "and."

Many references in the Applicability section use a threshold of 300 MW for UFLS and UVLS. This particular threshold of 300 MW for UVLS and UFLS was provided in Version 1 of the CIP Cyber Security Standards. The threshold remains at 300 MW since it is specifically addressing UVLS and UFLS, which are last ditch efforts to save

the Bulk Electric System. A review of UFLS tolerances defined within regional reliability standards for UFLS program requirements to date indicates that the historical value of 300 MW represents an adequate and reasonable threshold value for allowable UFLS operational tolerances.

B. Requirements and Measures

Rationale for Requirement R1:

One or more security policies enable effective implementation of the standard's requirements. The purpose of policies is to provide a management and governance foundation for all requirements that apply to its BES Cyber Systems. The Responsible Entity can demonstrate through its policies that its management supports the accountability and responsibility necessary for effective implementation of the standard's requirements.

Annual review and approval of the cyber security policy ensures that the policy is kept-up-to-date and periodically reaffirms management's commitment to the protection of its BES Cyber Systems.

- 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 BES Cyber Systems, 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 BES Cyber Systems (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 BES Cyber Systems (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 BES Cyber Systems, if any:
 - 1.2.1.** Cyber security awareness;
 - 1.2.2.** Physical security controls;
 - 1.2.3.** Electronic access controls for Low Impact External Routable Connectivity and Dial-up Connectivity; and
 - 1.2.4.** Cyber Security Incident Response

- 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.

Rationale for Requirement R2:

The requirement to implement a cyber security plan for assets containing low impact BES Cyber Systems provides a minimum set of cyber security controls for assets containing low impact BES Cyber Systems. Individually, these low impact BES Cyber Systems pose a relatively lower risk to the BES than other BES Cyber Systems, but in aggregate or through communication dependencies, they have the potential to create an adverse reliability impact if compromised. To that end, Requirement R2 requires Responsible Entities to implement documented cyber security plans covering four subject matter areas – (1) cyber security awareness, (2) physical access controls, (3) electronic access controls, and (4) cyber security incident response. In response to directives in FERC Order No. 791, Requirement R2 provides for the specific elements that must be included in the cyber security plan(s). Attachment 1 provides these elements. These plans, along with the cyber security policies required under Requirement R1, Part 1.2, provide sufficient operational, procedural, and technical safeguards for assets containing low impact BES Cyber Systems.

Considering the varied types of low impact BES Cyber Systems across the Bulk-Power System, Attachment 1 provides Responsible Entities flexibility on how to apply the required security controls. Additionally, the SDT recognizes that many Responsible Entities have multiple impact rated BES Cyber Systems and has provided the ability to use high and medium impact BES Cyber System policies, procedures, and processes to implement the objective criteria within Attachment 1.

Responsible Entities will utilize their list of assets that contain low impact BES Cyber System(s) that is created as a result of applying CIP-002 to substantiate the sites or locations associated with low impact BES Cyber Systems. However, there continues to be no compliance expectation for Responsible Entities to maintain a list(s) of individual low impact BES Cyber Systems and their associated cyber assets or to maintain a list of authorized users.

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

Note: An inventory, list, or discrete identification of low impact BES Cyber Systems or their BES Cyber Assets 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 elements in Attachment 1 and additional evidence to demonstrate implementation of cyber security plan(s). Additional examples of evidence per element are located in Attachment 2.

Rationale for Requirement R3:

The identification and documentation of the single CIP Senior Manager ensures that there is clear authority and ownership for the CIP program within an organization, as called for in Blackout Report Recommendation 43. The language that identifies CIP Senior Manager responsibilities is included in the *Glossary of Terms used in NERC Reliability Standards* so that it may be used across the body of CIP standards without an explicit cross-reference.

FERC Order No. 706, Paragraph 296, requests consideration of whether the single senior manager should be a corporate officer or equivalent. As implicated through the defined term, the senior manager has “the overall authority and responsibility for leading and managing implementation of the requirements within this set of standards” which ensures that the senior manager is of sufficient position in the Responsible Entity to ensure that cyber security receives the prominence that is necessary. In addition, given the range of business models for responsible entities, from municipal, cooperative, federal agencies, investor owned utilities, privately owned utilities, and everything in between, the SDT believes that requiring the senior manager to be a “corporate officer or equivalent” would be extremely difficult to interpret and enforce on a consistent basis.

- 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.

Rationale for Requirement R4:

The intent of the requirement is to ensure clear accountability within an organization for certain security matters. It also ensures that delegations are kept up-to-date and that individuals do not assume undocumented authority.

In FERC Order No. 706, Paragraphs 379 and 381, the Commission notes that Recommendation 43 of the 2003 Blackout Report calls for “clear lines of authority and ownership for security matters.” With this in mind, the Standard Drafting Team has sought to provide clarity in the requirement for delegations so that this line of authority is clear and apparent from the documented delegations.

- 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.

C. Compliance

1. Compliance Monitoring Process

1.1. Compliance Enforcement Authority:

As defined in the NERC Rules of Procedure, “Compliance Enforcement Authority” (CEA) means NERC or the Regional Entity in their respective roles of monitoring and enforcing compliance with the NERC Reliability Standards.

1.2. Evidence Retention:

The following evidence retention periods identify the period of time an entity is required to retain specific evidence to demonstrate compliance. For instances where the evidence retention period specified below is shorter than the time since the last audit, the CEA may ask an entity to provide other evidence to show that it was compliant for the full time period since the last audit.

The Responsible Entity shall keep data or evidence to show compliance as identified below unless directed by its CEA to retain specific evidence for a longer period of time as part of an investigation:

- Each Responsible Entity shall retain evidence of each requirement in this standard for three calendar years.
- If a Responsible Entity is found non-compliant, it shall keep information related to the non-compliance until mitigation is complete and approved or for the time specified above, whichever is longer.
- The CEA shall keep the last audit records and all requested and submitted subsequent audit records.

1.3. Compliance Monitoring and Assessment Processes:

Compliance Audits

Self-Certifications

Spot Checking

Compliance Investigations

Self-Reporting

Complaints

1.4. Additional Compliance Information:

None

2. Table of Compliance Elements

R #	Time Horizon	VRF	Violation Severity Levels (CIP-003-6)			
			Lower VSL	Moderate VSL	High VSL	Severe VSL
R1	Operations Planning	Medium	<p>The Responsible Entity documented and implemented one or more cyber security policies for its high impact and medium impact BES Cyber Systems, but did not address one of the nine topics required by R1. (R1.1)</p> <p>OR</p> <p>The Responsible Entity did not complete its review of the one or more documented cyber security policies for its high impact and medium impact BES Cyber Systems as required by R1 within 15 calendar months but did</p>	<p>The Responsible Entity documented and implemented one or more cyber security policies for its high impact and medium impact BES Cyber Systems, but did not address two of the nine topics required by R1. (R1.1)</p> <p>OR</p> <p>The Responsible Entity did not complete its review of the one or more documented cyber security policies for its high impact and medium impact BES Cyber Systems as required by R1 within 16 calendar months but did</p>	<p>The Responsible Entity documented and implemented one or more cyber security policies for its high impact and medium impact BES Cyber Systems, but did not address three of the nine topics required by R1. (R1.1)</p> <p>OR</p> <p>The Responsible Entity did not complete its review of the one or more documented cyber security policies for its high impact and medium impact BES Cyber Systems as required by R1 within 17 calendar months but did complete this review in less than or equal to 18</p>	<p>The Responsible Entity documented and implemented one or more cyber security policies for its high impact and medium impact BES Cyber Systems, but did not address four or more of the nine topics required by R1. (R1.1)</p> <p>OR</p> <p>The Responsible Entity did not have any documented cyber security policies for its high impact and medium impact BES Cyber Systems as required by R1. (R1.1)</p> <p>OR</p>

R #	Time Horizon	VRF	Violation Severity Levels (CIP-003-6)			
			Lower VSL	Moderate VSL	High VSL	Severe VSL
			complete this review in less than or equal to 16 calendar months of the previous review. (R1.1) OR The Responsible Entity did not complete its approval of the one or more documented cyber security policies for its high impact and medium impact BES Cyber Systems as required by R1 by the CIP Senior Manager within 15 calendar months but did complete this approval in less than or equal to 16 calendar months of	complete this review in less than or equal to 17 calendar months of the previous review. (R1.1) OR The Responsible Entity did not complete its approval of the one or more documented cyber security policies for its high impact and medium impact BES Cyber Systems as required by R1 by the CIP Senior Manager within 16 calendar months but did complete this approval in less than or equal to 17 calendar months of	calendar months of the previous review. (R1.1) OR The Responsible Entity did not complete its approval of the one or more documented cyber security policies for its high impact and medium impact BES Cyber Systems as required by R1 by the CIP Senior Manager within 17 calendar months but did complete this approval in less than or equal to 18 calendar months of the previous approval. (R1) OR The Responsible Entity documented one or more cyber security policies for its assets identified in CIP-002 containing low impact	The Responsible Entity did not complete its review of the one or more documented cyber security policies as required by R1 within 18 calendar months of the previous review. (R1) OR The Responsible Entity did not complete its approval of the one or more documented cyber security policies for its high impact and medium impact BES Cyber Systems as required by R1 by the CIP Senior Manager within 18 calendar months of

R #	Time Horizon	VRF	Violation Severity Levels (CIP-003-6)			
			Lower VSL	Moderate VSL	High VSL	Severe VSL
			the previous approval. (R1.1) OR The Responsible Entity documented one or more cyber security policies for its assets identified in CIP-002 containing low impact BES Cyber Systems, but did not address one of the four topics required by R1. (R1.2) OR The Responsible Entity did not complete its review of the one or more documented cyber security policies for its assets identified in CIP-002 containing low impact BES Cyber Systems as	the previous approval. (R1.1) OR The Responsible Entity documented one or more cyber security policies for its assets identified in CIP-002 containing low impact BES Cyber Systems, but did not address two of the four topics required by R1. (R1.2) OR The Responsible Entity did not complete its review of the one or more documented cyber security policies for its assets identified in CIP-002 containing low impact BES Cyber Systems as	BES Cyber Systems, but did not address three of the four topics required by R1. (R1.2) OR The Responsible Entity did not complete its review of the one or more documented cyber security policies for its assets identified in CIP-002 containing low impact BES Cyber Systems as required by R1 within 17 calendar months but did not complete this review in less than or equal to 18 calendar months of the previous review. (R1.2) OR The Responsible Entity did not complete its approval of the one or more documented cyber security policies for its	the previous approval. (R1.1) OR The Responsible Entity documented one or more cyber security policies for its assets identified in CIP-002 containing low impact BES Cyber Systems, but did not address any of the four topics required by R1. (R1.2) OR The Responsible Entity did not have any documented cyber security policies for its assets identified in CIP-002 containing low impact BES Cyber Systems as required by R1. (R1.2)

R #	Time Horizon	VRF	Violation Severity Levels (CIP-003-6)			
			Lower VSL	Moderate VSL	High VSL	Severe VSL
			<p>required by Requirement R1 within 15 calendar months but did not complete this review in less than or equal to 16 calendar months of the previous review. (R1.2)</p> <p>OR</p> <p>The Responsible Entity did not complete its approval of the one or more documented cyber security policies for its assets identified in CIP-002 containing low impact BES Cyber Systems as required by Requirement R1 by the CIP Senior Manager within 15 calendar months but did not complete this</p>	<p>required by Requirement R1 within 16 calendar months but did not complete this review in less than or equal to 17 calendar months of the previous review. (R1.2)</p> <p>OR</p> <p>The Responsible Entity did not complete its approval of the one or more documented cyber security policies for its assets identified in CIP-002 containing low impact BES Cyber Systems as required by Requirement R1 by the CIP Senior Manager within 16 calendar months but</p>	<p>assets identified in CIP-002 containing low impact BES Cyber Systems as required by Requirement R1 by the CIP Senior Manager within 17 calendar months but did not complete this approval in less than or equal to 18 calendar months of the previous approval. (R1.2)</p>	<p>OR</p> <p>The Responsible Entity did not complete its approval of the one or more documented cyber security policies for its assets identified in CIP-002 containing low impact BES Cyber Systems as required by Requirement R1 by the CIP Senior Manager within 18 calendar months of the previous approval. (R1.2)</p>

R #	Time Horizon	VRF	Violation Severity Levels (CIP-003-6)			
			Lower VSL	Moderate VSL	High VSL	Severe VSL
			approval in less than or equal to 16 calendar months of the previous approval. (R1.2)	did complete this approval in less than or equal to 17 calendar months of the previous approval. (R1.2)		
R2	Operations Planning	Lower	<p>The Responsible Entity documented its cyber security plan(s) for its assets containing low impact BES Cyber Systems, but failed to document cyber security awareness according to CIP-003-6, Requirement R2, Attachment 1, element 1. (R2)</p> <p>OR</p> <p>The Responsible Entity documented its cyber security plan(s) for its assets containing low impact BES Cyber</p>	<p>The Responsible Entity documented its cyber security plan(s) for its assets containing low impact BES Cyber Systems, but failed to reinforce cyber security practices at least once every 15 calendar months according to CIP-003-6, Requirement R2, Attachment 1, element 1. (R2)</p> <p>OR</p> <p>The Responsible Entity documented one or more incident response plans</p>	<p>The Responsible Entity documented one or more incident response plans within its cyber security plan(s) for its assets containing low impact BES Cyber Systems, but failed to test each Cyber Security Incident response plan(s) at least once every 36 calendar months according to CIP-003-6, Requirement R2, Attachment 1, element 4. (R2)</p> <p>OR</p> <p>The Responsible Entity documented the determination of</p>	<p>The Responsible Entity failed to document or implement one or more cyber security plan(s) for its assets containing low impact BES Cyber Systems according to CIP-003-6, Requirement R2, Attachment 1. (R2)</p>

R #	Time Horizon	VRF	Violation Severity Levels (CIP-003-6)			
			Lower VSL	Moderate VSL	High VSL	Severe VSL
			Systems, but failed to document one or more Cyber Security Incident response plans according to CIP-003-6, Requirement R2, Attachment 1, element 4. (R2)	within its cyber security plan(s) for its assets containing low impact BES Cyber Systems, but failed to include the process for identification, classification, and response to Cyber Security Incidents according to CIP-003-6, Requirement R2, Attachment 1, element 4. (R2) OR The Responsible Entity documented one or more incident response plans within its cyber security plan(s) for its assets containing low impact BES Cyber Systems, but failed to update each Cyber Security	whether an identified Cyber Security Incident is a Reportable Cyber Security Incident, but failed to notify the Electricity Sector Information Sharing and Analysis Center (ES-ISAC) according to CIP-003-6, Requirement R2, Attachment 1, element 4. (R2) OR The Responsible Entity documented and implemented electronic access controls for Low Impact External Routable Connectivity, but failed to establish a Low Impact Electronic Access Point, or permit inbound and outbound access and deny all other access, or other electronic access controls that provide	

R #	Time Horizon	VRF	Violation Severity Levels (CIP-003-6)			
			Lower VSL	Moderate VSL	High VSL	Severe VSL
				Incident response plan(s) within 180 days according to CIP-003-6, Requirement R2, Attachment 1, element 4. (R2) OR The Responsible Entity documented its cyber security plan(s) for its assets containing low impact BES Cyber Systems, but failed to document the determination of whether an identified Cyber Security Incident is a Reportable Cyber Security Incident and subsequent notification to the Electricity Sector Information Sharing and Analysis Center	equal or greater level of protection according to CIP-003-6, Requirement R2, Attachment 1, element 3. (R2) OR The Responsible Entity documented and implemented electronic access controls for its assets containing low impact BES Cyber Systems, but failed to document and implement authentication of all Dial-up Connectivity that provides access to low impact BES Cyber Systems according to CIP-003, Requirement R2, Attachment 1, element 3. (R2) OR The Responsible Entity documented the physical	

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			Lower VSL	Moderate VSL	High VSL	Severe VSL
				<p>(ES-ISAC) according to CIP-003-6, Requirement R2, Attachment 1, element 4.</p> <p>OR</p> <p>The Responsible Entity documented its cyber security plan(s) for its assets containing low impact BES Cyber Systems, but failed to document physical access controls according to CIP-003-6, Requirement R2, Attachment 1, element 2. (R2)</p> <p>OR</p> <p>The Responsible Entity documented its cyber security plan(s) for its assets containing low</p>	<p>access controls for its assets containing low impact BES Cyber Systems, but failed to implement the physical access controls according to CIP-003, Requirement R2, Attachment 1, element 2. (R2)</p>	

R #	Time Horizon	VRF	Violation Severity Levels (CIP-003-6)			
			Lower VSL	Moderate VSL	High VSL	Severe VSL
				impact BES Cyber Systems, but failed to document electronic access controls according to CIP-003-6, Requirement R2, Attachment 1, element 3. (R2)		
R3	Operations Planning	Medium	The Responsible Entity has identified by name a CIP Senior Manager, but did not document changes to the CIP Senior Manager within 30 calendar days but did document this change in less than 40 calendar days of the change. (R3)	The Responsible Entity has identified by name a CIP Senior Manager, but did not document changes to the CIP Senior Manager within 40 calendar days but did document this change in less than 50 calendar days of the change. (R3)	The Responsible Entity has identified by name a CIP Senior Manager, but did not document changes to the CIP Senior Manager within 50 calendar days but did document this change in less than 60 calendar days of the change. (R3)	The Responsible Entity has not identified, by name, a CIP Senior Manager. OR The Responsible Entity has identified by name a CIP Senior Manager, but did not document changes to the CIP Senior Manager within 60 calendar

R #	Time Horizon	VRF	Violation Severity Levels (CIP-003-6)			
			Lower VSL	Moderate VSL	High VSL	Severe VSL
						days of the change. (R3)
R4	Operations Planning	Lower	The Responsible Entity has identified a delegate by name, title, date of delegation, and specific actions delegated, but did not document changes to the delegate within 30 calendar days but did document this change in less than 40 calendar days of the change. (R4)	The Responsible Entity has identified a delegate by name, title, date of delegation, and specific actions delegated, but did not document changes to the delegate within 40 calendar days but did document this change in less than 50 calendar days of the change. (R4)	The Responsible Entity has identified a delegate by name, title, date of delegation, and specific actions delegated, but did not document changes to the delegate within 50 calendar days but did document this change in less than 60 calendar days of the change. (R4)	The Responsible Entity has used delegated authority for actions where allowed by the CIP Standards, but does not have a process to delegate actions from the CIP Senior Manager. (R4) OR The Responsible Entity has identified a delegate by name, title, date of delegation, and specific actions delegated, but did not document changes to the delegate within 60 calendar days of the change. (R4)

D. Regional Variances

None.

E. Interpretations

None.

F. Associated Documents

None.

CIP-003-6 - Attachment 1

Required Elements for Cyber Security Plan(s) for Assets Containing Low Impact BES Cyber Systems

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

Responsible Entities with multiple impact BES Cyber Systems ratings can utilize policies, procedures, and processes for their high or medium impact BES Cyber Systems to fulfill the elements 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.

1. **Cyber security awareness:** Each Responsible Entity shall reinforce, once every 15 calendar months, its cyber security practices, using one or a combination of the following methods:
 - Direct communications (for example, e-mails, memos, computer-based training);
 - Indirect communications (for example, posters, intranet, or brochures); or
 - Management support and reinforcement (for example, presentations or meetings).
2. **Physical access controls:** Each Responsible Entity shall implement controls to restrict physical access to (1) the asset or the locations of the low impact BES Cyber Systems within the asset, and (2) the Low Impact BES Cyber System Electronic Access Point, if any, based on need as determined by the Responsible Entity, through one or more of the following:
 - Access controls;
 - Monitoring controls; or
 - Other operational, procedural, or technical physical security controls.
3. **Electronic access controls:** Each Responsible Entity shall implement controls to restrict electronic access for Low Impact External Routable Connectivity and Dial-up Connectivity, which shall include the following, or other electronic access controls that provide an equal or greater level of protection:
 - 3.1 For any Low Impact External Routable Connectivity, establish a Low Impact BES Cyber System Electronic Access Point that permits only necessary inbound and outbound access and denies all other access; and
 - 3.2 Authentication of all Dial-up Connectivity that provides access to low impact BES Cyber Systems, per Cyber Asset capability.

- 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 Sector Information Sharing and Analysis Center (ES-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 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.
 - 4.6** Record retention related to Reportable Cyber Security Incidents.
 - 4.7** Updating the Cyber Security Incident response plan within 180 calendar days after completion of a Cyber Security Incident response plan(s) test or actual Reportable Cyber Security Incident.

CIP-003-6 - Attachment 2

Examples of Evidence for Cyber Security Plan(s) for Assets Containing Low Impact BES Cyber Systems

Element 1: An example of evidence for element 1 may include, but is not limited to documentation that the reinforcement of cyber security practices once every 15 months has been provided through dated copies of the information used to reinforce security awareness via direct communications, indirect communications or management support and reinforcement.

Element 2: Examples of evidence for element 2 may include, but are not limited to:

1. Documentation of one or more access controls (e.g. card key, special locks), monitoring controls (e.g. alarm systems, human observation), or other operational, procedural or technical physical security controls to restrict physical access to both:
 - a. The asset, if any, or the locations of the low impact BES Cyber Systems within the asset; and
 - b. The Cyber Asset, if any, containing the Low Impact BES Cyber System Electronic Access Point.
2. Documentation showing that the physical access restrictions cited above are based on need, which may include, but is not limited to, a policy describing the high level operational or business need(s) for physical access.

Element 3: Examples of evidence for element 3 may include, but are not limited to:

- Documentation showing that inbound and outbound connections (e.g. IP addresses, ports, services) for any Low Impact BES Cyber System Electronic Access Point are confined to only those the Responsible Entity deems necessary; and 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, access control on the BES Cyber System); or
- Documentation of other electronic access controls that provide an equal or greater level of protection.

Element 4: An example of evidence for element 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); 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 Sector Information Sharing and Analysis Center (ES-ISAC);

2. the identification and documentation of the roles and responsibilities for Cyber Security Incident response by groups of individuals (e.g. initiating, documenting, monitoring, reporting, etc.);
3. for incident handling of a Cyber Security Incident (e.g. containment, eradication, 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
5. to retain records related to Reportable Cyber Security Incidents (e.g. security logs, police reports, emails, response forms or checklists, forensic analysis results, restoration records, and post-incident review notes).

Also include dated revised Cyber Security Incident response plan(s) that identify that the plan(s) were updated within 180 calendar days after a completion of a test or actual Reportable Cyber Security Incident.

Guidelines and Technical Basis

Section 4 – Scope of Applicability of the CIP Cyber Security Standards

Section “4. Applicability” of the standards provides important information for Responsible Entities to determine the scope of the applicability of the CIP Cyber Security Requirements.

Section “4.1. Functional Entities” is a list of NERC functional entities to which the standard applies. If the entity is registered as one or more of the functional entities listed in Section 4.1, then the NERC CIP Cyber Security Standards apply. Note that there is a qualification in Section 4.1 that restricts the applicability in the case of Distribution Providers to only those that own certain types of systems and equipment listed in 4.2.

Section “4.2. Facilities” defines the scope of the Facilities, systems, and equipment owned by the Responsible Entity, as qualified in Section 4.1, that is subject to the requirements of the standard. In addition to the set of BES Facilities, Control Centers, and other systems and equipment, the list includes the set of systems and equipment owned by Distribution Providers. While the NERC Glossary term “Facilities” already includes the BES characteristic, the additional use of the term BES here is meant to reinforce the scope of applicability of these Facilities where it is used, especially in this applicability scoping section. This in effect sets the scope of Facilities, systems, and equipment that is subject to the standards.

Requirement R1:

The number of policies and their specific language are guided by a Responsible Entity's management structure and operating conditions. Policies might be included as part of a general information security program for the entire organization, or as components of specific programs. If a Responsible Entity has any high or medium impact BES Cyber Systems, the cyber security policy must cover in sufficient detail the nine topical areas required by CIP-003-6, Requirement R1.1. If a Responsible Entity has any assets from CIP-002 containing low impact BES Cyber Systems, the cyber security policy must cover in sufficient detail the four topical areas required by Requirement R1.2. The Responsible Entity has the flexibility to develop a single comprehensive cyber security policy covering these topics, or it may choose to develop a single high-level umbrella policy and provide additional policy detail in lower level documents in its documentation hierarchy. In the case of a high-level umbrella policy, the Responsible Entity would be expected to provide the high-level policy as well as the additional documentation in order to demonstrate compliance with CIP-003-6, Requirement R1. For Responsible Entities that have multiple impact rated BES Cyber Systems, they are not required to create separate cyber security policies for high or medium and low impact BES Cyber Systems. Implementation of the cyber security policy is not specifically included in CIP-003-6, Requirement R1 as it is envisioned that the implementation of this policy is evidenced through successful implementation of CIP-004 through CIP-011. However, Responsible Entities are encouraged not to limit the scope of their cyber security policies to only those requirements from CIP-004 through CIP-011, but rather to put together a holistic cyber security policy appropriate to its organization. The assessment through the Compliance Monitoring and Enforcement Program

of policy items that extend beyond the scope of CIP-004 through CIP-011 should not be considered candidates for potential violations. The Responsible Entity should consider the following for each of the required topics in its cyber security policy:

1.1 Personnel and training (CIP-004)

- Organization position on acceptable background investigations
- Identification of possible disciplinary action for violating this policy
- Account management

1.2 Electronic Security Perimeters (CIP-005) including Interactive Remote Access

- Organization stance on use of wireless networks
- Identification of acceptable authentication methods
- Identification of trusted and untrusted resources
- Monitoring and logging of ingress and egress at Electronic Access Points
- Maintaining up-to-date anti-malware software before initiating Interactive Remote Access
- Maintaining up-to-date patch levels for operating systems and applications used to initiate Interactive Remote Access
- Disabling VPN “split-tunneling” or “dual-homed” workstations before initiating Interactive Remote Access
- For vendors, contractors, or consultants: include language in contracts that requires adherence to the Responsible Entity’s Interactive Remote Access controls

1.3 Physical security of BES Cyber Systems (CIP-006)

- Strategy for protecting Cyber Assets from unauthorized physical access
- Acceptable physical access control methods
- Monitoring and logging of physical ingress

1.4 System security management (CIP-007)

- Strategies for system hardening
- Acceptable methods of authentication and access control
- Password policies including length, complexity, enforcement, prevention of brute force attempts
- Monitoring and logging of BES Cyber Systems

1.5 Incident reporting and response planning (CIP-008)

- Recognition of Cyber Security Incidents
- Appropriate notifications upon discovery of an incident

- Obligations to report Cyber Security Incidents

1.6 Recovery plans for BES Cyber Systems (CIP-009)

- Availability of spare components
- Availability of system backups

1.7 Configuration change management and vulnerability assessments (CIP-010)

- Initiation of change requests
- Approval of changes
- Break-fix processes

1.8 Information protection (CIP-011)

- Information access control methods
- Notification of unauthorized information disclosure
- Information access on a need-to-know basis

1.9 Declaring and responding to CIP Exceptional Circumstances

- Processes to invoke special procedures in the event of a CIP Exceptional Circumstance
- Processes to allow for exceptions to policy that do not violate CIP requirements

The Standard Drafting Team (SDT) has removed requirements relating to exceptions to a Responsible Entity's security policies since it is a general management issue that is not within the scope of a reliability requirement. The SDT considers it to be an internal policy requirement and not a reliability requirement. However, the SDT encourages Responsible Entities to continue this practice as a component of its cyber security policy.

In this and all subsequent required approvals in the NERC CIP Standards, the Responsible Entity may elect to use hardcopy or electronic approvals to the extent that there is sufficient evidence to ensure the authenticity of the approving party.

Requirement R2:

Using the list of assets from CIP-002, the intent of the requirement is for each Responsible Entity to create, document, and implement one or more cyber security plan(s) that addresses the protection of all low impact BES Cyber Systems. The SDT is balancing the fact that low impact BES Cyber Systems are indeed low impact to the BES, but they do meet the definition of having a 15-minute adverse impact so some protections are needed. The intent is that such protections are part of a program that covers the low impact BES Cyber Systems collectively either at an asset or site level (assets containing low impact BES Cyber Systems), not an individual device or system level.

There are four main areas detailed in Attachment 1 that must be covered by this plan: cyber security awareness, physical security, electronic access controls for Low Impact External Routable Connectivity and Dial-up Connectivity, and cyber security incident response.

Requirement R2 Attachment 1

Attachment 1 contains the elements that must be in the cyber security plan(s). The SDT's intent is to allow entities that have a combination of high, medium, and low impact BES Cyber Systems the flexibility to choose to cover their low impact BES Cyber Systems (or any subset) under their programs used for the high or medium impact BES Cyber Systems and not maintain two separate programs. Guidance for each of the 4 subject matter areas of Attachment 1 is provided below.

Requirement R2 Attachment 1 – Security Awareness

The intent of the security awareness program is for entities to reinforce good cyber security practices with their personnel at least once every 15 calendar months. It is up to the entity as to the topics and how it schedules these topics. The Responsible Entity should be able to produce the awareness material that was delivered and the delivery method(s) (posters, emails, topics at staff meetings, etc.) that were used. The SDT does not intend that the Responsible Entity must maintain lists of recipients and track the reception of the awareness material by personnel.

Although the focus of the awareness is cyber security, it does not mean that only technology-related topics can be used in the program. Appropriate physical security topics (e.g. tailgating awareness and protection of badges for physical security, "If you see something, say something" campaigns, etc.) are valid for cyber security awareness. The intent is to cover topics concerning any aspect of the protection of BES Cyber Systems.

Requirement R2 Attachment 1 – Physical Security

The Responsible Entity must document and implement controls to restrict physical access to the low impact BES Cyber Systems at a BES asset and Low Impact BES Cyber System Electronic Access Points (LEAP) (see Electronic Access Controls section below). If the LEAP is located within the BES asset and inherits the same controls outlined in element 2, this can be noted by the Responsible Entity to avoid duplicate documentation of the same controls. If the LEAP is located at another location, possibly a location without any BES Cyber Systems, then separate documentation and implementation of the physical security controls of the LEAP are required.

The Responsible Entity has flexibility in the controls used to restrict physical access to low impact BES Cyber Systems at a BES asset using one or a combination of access controls, monitoring controls, or other operational, procedural, or technical physical security controls. Entities may utilize perimeter controls (e.g., fences with locked gates, guards, site access policies, etc.) and/or more granular areas of physical access control in areas where low impact BES Cyber Systems are located, such as control rooms or control houses. User authorization programs and lists of authorized users are not required.

The objective is to restrict physical access based on need and the need can be established at the policy level based on higher level operational or business needs for access to the site or systems. The SDT intent is that this need at the higher level be documented such that the requirement cannot be interpreted to mean that any and all access must be restricted. The

requirement does not imply that a specific business need must be documented for each access or authorization of a user for access.

Monitoring as a physical security control can be used as a complement or an alternative to access control. Examples of monitoring controls include, but are not limited to: (i) alarm systems to detect motion or entry into a controlled area, or (ii) human observation of a controlled area. Monitoring does not imply logging and maintaining logs, but monitoring that physical access has occurred or been attempted (e.g., door alarm or human observation, etc.). The monitoring does not need to be per low impact BES Cyber System but should be at the level as determined by the entity's controls.

Requirement R2 Attachment 1 – Electronic Access Controls

Where Low Impact External Routable Connectivity (LERC) or Dial-up Connectivity exists, the Responsible Entity must document and implement controls that include the LERC and Dial-up Connectivity to the BES asset such that the low impact BES Cyber Systems located at the BES asset are protected. Two glossary terms are included in order to help clarify and simplify the language in Attachment 1. The SDT's intent in creating these terms is to avoid confusion with the similar concepts and requirements (ESP, EAP, ERC, EACMS) needed for high and medium impact BES Cyber Systems by utilizing separate terms that apply only to assets containing low impact BES Cyber Systems.

Low Impact External Routable Connectivity (LERC) – includes any bi-directional routable protocol based connectivity between low impact BES Cyber Systems within a BES asset and Cyber Assets outside the BES asset containing the low impact BES Cyber Systems. The SDT, in order to avoid future technology issues, is specifically excluding from the definition direct Intelligent Electronic Device (IED) to IED communication used for protection and/or control between low impact BES Cyber Systems at different BES assets, such as IEC 61850 messaging. The SDT does not intend for the requirement to have an electronic access point even though there is LERC or to preclude the use of such time-sensitive (for example 4 ms or less) reliability enhancing functions if they use a routable protocol in the future.

Low Impact BES Cyber System Electronic Access Point (LEAP) – is the interface on a Cyber Asset that allows and controls the LERC. Examples include, but are not limited to, the internal (facing the low impact BES Cyber Systems) interface on a firewall, the internal interface on a router that has implemented an access control list (ACL), or an internal interface on a unidirectional gateway that physically enforces outbound-only data flows. LEAP are not to be considered EACMS or meet EACMS specific requirements (as utilized for the Electronic Security Perimeter protecting high and medium impact BES Cyber Systems). However they are required, as per element 2 of the cyber security plan elements, to have physical security controls. The location of the LEAP is not prescriptive and does not have to reside at the BES asset containing low impact BES Cyber Systems. This flexibility is included so that the standard does not require a unique LEAP per BES asset. Responsible Entities can have a single LEAP that controls the LERC from more than one BES asset containing low impact BES Cyber Systems. However the LERC between assets "behind" the LEAP and another asset containing a low impact BES Cyber

System must also pass through the single LEAP. Locating the LEAP at an external location with multiple BES assets containing low impact BES Cyber Systems “behind” it should not allow unfettered access from one BES asset to all other BES assets sharing the LEAP. It is also not the intent of the SDT where low impact BES Cyber Systems do not have any LERC that additional connectivity be established nor that a LEAP be established.

The electronic access controls should address the risk of using the asset’s LERC or Dial-up Connectivity to gain access to the low impact BES Cyber Systems. For LERC, a LEAP shall be implemented that permits only necessary inbound and outbound access and denies all other access.

Examples of sufficient access controls may include:

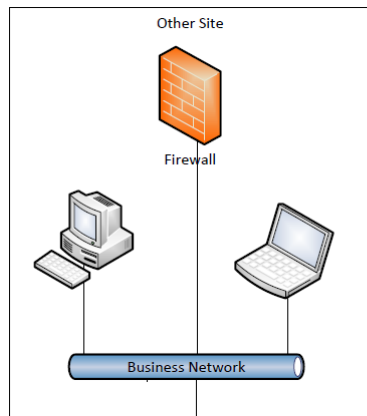
- Any LERC for the asset passes through a LEAP that denies all traffic by default with explicit inbound and outbound access permissions defined, or equivalent method by which both inbound and outbound connections are confined to only those that the Responsible Entity deems necessary (e.g. IP addresses, ports, services) for scenarios representative of the Responsible Entity's sites having Low Impact BES Cyber Systems.
- Dial-up Connectivity to a low impact BES Cyber System is set to dial out only (no autoanswer) to a preprogrammed number to deliver data. Incoming Dial-up Connectivity is to a dialback modem, a modem that must be remotely controlled by the control center or control room, has some form of access control, or the low impact BES Cyber System has access control.

Some examples of situations that would lack sufficient access controls to meet the intent of this requirement include:

- An asset has Dial-up Connectivity and a low impact BES Cyber System is reachable via an auto-answer modem that connects any caller to the Cyber Asset that has a default password. There is no access control in this instance.
- An asset has external routable connectivity due to a BES Cyber System within it having a 3G/4G wireless card on a public carrier which allows the BES Cyber System to be reachable via a public IP address. In essence, low impact BES Cyber Systems should not be accessible from the Internet and search engines such as Shodan.

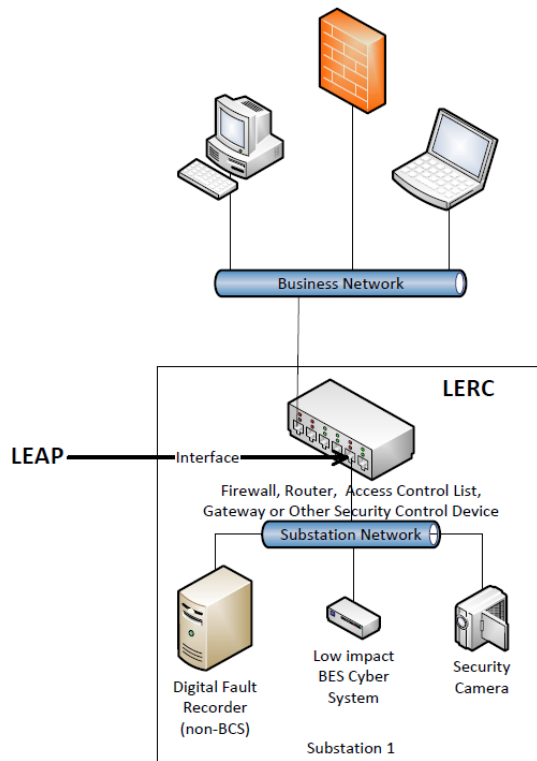
The SDT also notes it uses the term “electronic access control” in the general sense, i.e., to control access, and not in the specific technical sense requiring authentication, authorization, and auditing.

The following diagrams explain the SDT's rationale.



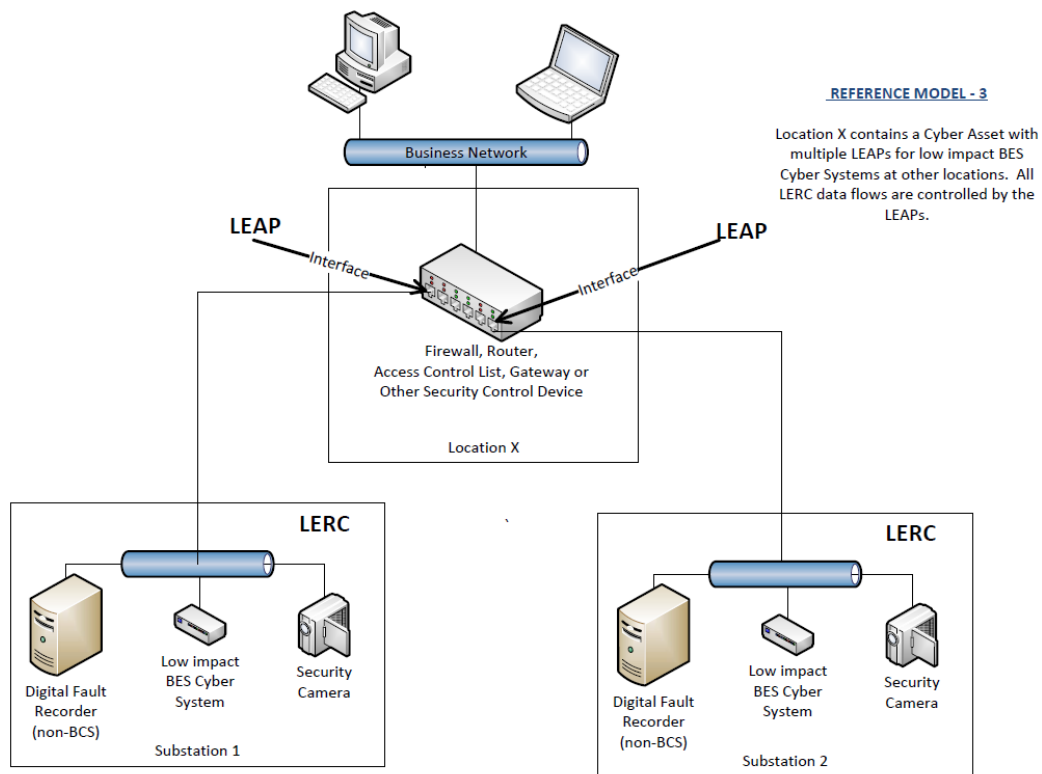
REFERENCE MODEL - 1

The low impact BES Cyber System is behind a LEAP. In this example, the LEAP is the network interface on the low impact BES Cyber System. The host-based firewall restricts electronic access for Low Impact External Routable Connectivity (LERC).



REFERENCE MODEL - 2

All LERC to the low impact BES Cyber System is controlled by an LEAP.



Requirement R2 Attachment 1 – Cyber Security Incident Response

The entity should have one or more documented cyber security incident response plans that include each of the topics listed. For assets that do not have LERC, it is not the intent to increase their risk by increasing the level of connectivity in order to have real-time monitoring. The intent is if in the normal course of business suspicious activities are noted at an asset containing low impact BES Cyber Systems, there is a cyber security incident response plan that will guide the entity through responding to the incident and reporting the incident if it rises to the level of a Reportable Cyber Security Incident.

The plan(s) must be tested once every 36 months. This is not an exercise per low impact BES Cyber Asset or per type of BES Cyber Asset but an exercise of each incident response plan the entity created to meet this requirement. An actual Reportable Cyber Security Incident counts as an exercise as well as other forms of tabletop exercises or drills. NERC-led exercises such as GridEx participation would also count as an exercise if the entity’s response plan is followed. It is the intent of the SDT to have the cyber security incident response plan(s) kept current which includes updating the plan(s) within 180 days following a test or an actual incident.

In the event of a Reportable Cyber Security Incident, Attachment 1, element 4.6 specifies entities must retain relevant records for Reportable Cyber Security Incidents. Example evidence may include, but is not limited to, dated documentation, such as security logs, police reports,

emails, response forms or checklists, forensic analysis results, restoration records, and post-incident review notes. Entities should refer to their handling procedures to determine the types of evidence to retain. The evidence retention period for records related to Reportable Cyber Security Incidents is defined in Section C.1.2 of this Standard, which is the same for all requirements in CIP-003-6.

For low impact BES Cyber Systems, the only portion of the definition of Cyber Security Incident that would apply is, “A malicious act or suspicious event that disrupts, or was an attempt to disrupt, the operation of a BES Cyber System.” The other portion of that definition is not to be used to require ESPs and PSPs for low impact BES Cyber Systems.

Requirement R3:

The intent of CIP-003-6, Requirement R3 is effectively unchanged since prior versions of the standard. The specific description of the CIP Senior Manager has now been included as a defined term rather than clarified in the Standard itself to prevent any unnecessary cross-reference to this standard. It is expected that this CIP Senior Manager play a key role in ensuring proper strategic planning, executive/board-level awareness, and overall program governance.

Requirement R4:

As indicated in the rationale for CIP-003-6, Requirement R4, this requirement is intended to demonstrate a clear line of authority and ownership for security matters. The intent of the SDT was not to impose any particular organizational structure, but, rather, the Responsible Entity should have significant flexibility to adapt this requirement to their existing organizational structure. A Responsible Entity may satisfy this requirement through a single delegation document or through multiple delegation documents. The Responsible Entity can make use of the delegation of the delegation authority itself to increase the flexibility in how this applies to its organization. In such a case, delegations may exist in numerous documentation records as long as the collection of these documentation records provides a clear line of authority back to the CIP Senior Manager. In addition, the CIP Senior Manager could also choose not to delegate any authority and meet this requirement without such delegation documentation.

The Responsible Entity must keep its documentation of the CIP Senior Manager and any delegations up to date. This is to ensure that individuals do not assume any undocumented authority. However, delegations do not have to be re-instated if the individual who delegated the task changes roles or is replaced. For instance, assume that John Doe is named the CIP Senior Manager and he delegates a specific task to the Substation Maintenance Manager. If John Doe is replaced as the CIP Senior Manager, the CIP Senior Manager documentation must be updated within the specified timeframe, but the existing delegation to the Substation Maintenance Manager remains in effect as approved by the previous CIP Senior Manager, John Doe.