

Standard Development Timeline

This section is maintained by the drafting team during the development of the standard and will be removed when the standard is adopted by the NERC Board of Trustees (Board).

Description of Current Draft

CIP-014-4 is posted for a 45-day formal comment period with additional ballot.

Completed Actions	Date
Standards Committee approved Standard Authorization Request (SAR) for posting	June 21, 2023
SAR posted for comment	July 26, 2023 – August 24, 2023
Accepted Revised SAR	January 17, 2024
45-day formal or informal comment period with ballot	May 20, 2024 – July 3, 2024
45-day formal or informal comment period with additional ballot	September 23, 2024 – November 6, 2024

Anticipated Actions	Date
45-day formal comment period with additional ballot	June 6, 2025 – July 21, 2025
10-day final ballot	August 11, 2025 – August 20, 2025
Board adoption	February 11, 2026

New or Modified Term(s) Used in NERC Reliability Standards

This section includes all new or modified terms used in the proposed standard that will be included in the *Glossary of Terms Used in NERC Reliability Standards* upon applicable regulatory approval. Terms used in the proposed standard that are already defined and are not being modified can be found in the *Glossary of Terms Used in NERC Reliability Standards*. The new or revised terms listed below will be presented for approval along with the proposed standard. Upon Board adoption, this section will be removed.

Term(s):

None.

A. Introduction

1. **Title:** Physical Security
2. **Number:** CIP-~~014~~-2014-4
3. **Purpose:** To identify and protect Transmission stations and Transmission substations, and their associated primary control centers, that if rendered inoperable or damaged ~~as a result of~~ due to a physical attack, could ~~result in~~ cause instability, uncontrolled separation, or Cascading within an Interconnection.

4. **Applicability:**

- 4.1. **Functional Entities:**

~~4.1.1. 4.1.1~~ Transmission Owner that owns ~~a~~ or jointly owns one or more Transmission ~~station~~stations or Transmission ~~substation that meets any of the following~~substations that meet the applicability criteria of Attachment 1.

~~4.1.1.1~~ Transmission Facilities operated at 500 kV or higher. For the purpose of this criterion, the collector bus for a generation plant is not considered a Transmission Facility, but is part of the generation interconnection Facility.

~~4.1.1.2~~ Transmission Facilities that are operating between 200 kV and 499 kV at a single station or substation, where the station or substation is connected at 200 kV or higher voltages to three or more other Transmission stations or substations and has an "aggregate weighted value" exceeding 3000 according to the table below. The "aggregate weighted value" for a single station or substation is determined by summing the "weight value per line" shown in the table below for each incoming and each outgoing BES Transmission Line that is connected to another Transmission station or substation. For the purpose of this criterion, the collector bus for a generation plant is not considered a Transmission Facility, but is part of the generation interconnection Facility.

Voltage Value of a Line	Weight Value per Line
less than 200 kV (not applicable)	(not applicable)
200 kV to 299 kV	700
300 kV to 499 kV	1300
500 kV and above	0

~~4.1.1.3~~ Transmission Facilities at a single station or substation location that are identified by its Reliability Coordinator, Planning Coordinator, or Transmission Planner as critical to the derivation of Interconnection

~~Reliability Operating Limits (IROLs) and their associated contingencies.~~

~~4.1.1.4 Transmission Facilities identified as essential to meeting Nuclear Plant Interface Requirements.~~

~~4.1.2. 4.1.2~~ Transmission Operator.

Exemption: Facilities in a “protected area,” as defined in 10 C.F.R. § 73.2, within the scope of a security plan approved or accepted by the Nuclear Regulatory Commission (NRC) are not subject to this Standard; or, Facilities within the scope of a security plan approved or accepted by the Canadian Nuclear Safety Commission are not subject to this Reliability Standard.

5. ~~5.~~ Effective ~~Dates~~Date:

See Implementation Plan for CIP-~~014~~ 2014-4.

~~6.~~ Background:

~~This Reliability Standard addresses the directives from the FERC order issued March 7, 2014, Reliability Standards for Physical Security Measures, 146 FERC ¶ 61,166 (2014), which required NERC to develop a physical security reliability standard(s) to identify and protect facilities that if rendered inoperable or damaged could result in instability, uncontrolled separation, or Cascading within an Interconnection.~~

B. Requirements and Measures

- R1.** Each Transmission Owner, at least once every 36 calendar months, shall identify each applicable Transmission station and Transmission substation meeting any of the criteria in Attachment 1 that is either existing or planned to be in service within 36 calendar months. *[Violation Risk Factor: High; Time-Horizon: Long-term Planning]*
- M1.** Examples of evidence may include, but are not limited to, dated written or electronic documentation of the Transmission station(s) and Transmission substation(s) (existing and those planned to be in service within 36 calendar months) that meet any of the criteria in Attachment 1.
- R2.** Each Transmission Owner shall identify proximate Transmission station(s) and Transmission substation(s), irrespective of ownership, within 1500 feet or 457 meters (the shortest distance, measured substation fence line to substation fence line) of an applicable Transmission station or Transmission substation identified in Requirement R1. *[Violation Risk Factor: Medium; Time-Horizon: Long-term Planning]*
- M2.** Examples of evidence may include, but are not limited to, dated written or electronic documentation of the Transmission stations or Transmission substations determined in Requirement R2.
- R3.** Each Transmission Owner shall have a documented risk assessment methodology for evaluating the loss of each applicable Transmission station or Transmission substation identified in Requirement R1. The methodology shall include, at a minimum, the following: *[Violation Risk Factor: High; Time-Horizon: Long-term Planning]*
- 3.1.** Documented criteria for assessing instability, uncontrolled separation, or Cascading within an Interconnection. The criteria shall include, at a minimum, thresholds identifying unacceptable generation and load loss within an Interconnection.
 - 3.2.** A provision that steady-state and dynamic simulations shall each be performed using a System peak Load case and a System Off-Peak Load case.
 - 3.3.** A specification for Fault simulations, including:
 - 3.3.1.** For each applicable Transmission station or Transmission substation listed in accordance with Requirement R1, a Fault at the applicable Transmission station or Transmission substation.
 - 3.3.2.** For each Transmission station or Transmission substation determined in accordance with Requirement R2 as being in proximity to an applicable Transmission station or Transmission substation, Faults at both the applicable and proximate Transmission station(s) or Transmission substation(s).
 - 3.4.** A specification that Fault simulations assume the loss of communication and Protection Systems at the applicable Transmission station(s) or Transmission

substation(s) prior to or simultaneous with the Fault(s) studied under Requirement R3, Parts 3.3.1 and 3.3.2.

3.4.1. Removal of all Elements that Protection Systems and other controls are expected to automatically disconnect for each event.

3.4.2. Delayed (remote) clearing times shall be used unless otherwise technically substantiated.

3.4.3. Actual or more conservative clearing times shall be used unless otherwise technically substantiated.

M3. Each Transmission Owner shall provide dated evidence, such as electronic or hard copies, of a risk assessment methodology satisfying Requirement R3.

R4. Each Transmission Owner with applicable Transmission station(s) and Transmission substation(s) identified in Requirement R1 containing Bulk Electric System (BES) Elements owned by multiple Transmission Owners shall coordinate with each appropriate Transmission Owner(s) to determine and document their individual and joint responsibilities for documenting a risk assessment methodology under Requirement R3 and for performing any required risk assessments per Requirement R5. *[Violation Risk Factor: Medium; Time-Horizon: Operations Planning, Long-term Planning]*

M4. Examples of acceptable evidence may include, but are not limited to, dated documentation, such as meeting minutes, agreements, and email correspondence, that identifies that agreement has been reached on individual and joint responsibilities for performing the required risk assessments.

R5. At least once every 36 calendar months, each Transmission Owner shall perform a risk assessment to identify applicable Transmission station(s) and Transmission substation(s) identified in Requirement R1, that if rendered inoperable or damaged could result in instability, uncontrolled separation, or Cascading within an Interconnection, using the methodology established in Requirement R3, including any Transmission station(s) and Transmission substation(s) identified in accordance with Requirement R4. If proximate Transmission station(s) and Transmission substation(s) were identified in Requirement R2, they should also be included in the risk assessment. *[Violation Risk Factor: High; Time-Horizon: Operations Planning, Long-term Planning]*

5.1. During the current risk assessment, a Transmission station or Transmission substation identified in either the dynamic or steady-state simulation as causing instability, uncontrolled separation, or Cascading within an Interconnection when rendered inoperable or damaged requires no further simulation.

5.2. If a previous risk assessment has identified a Transmission station or Transmission substation as causing instability, uncontrolled separation, or Cascading within an Interconnection when rendered inoperable or damaged,

then the Transmission Owner may forgo additional assessments on that Transmission station or Transmission substation. Requirement R5, Part 5.3 and Requirement R7 through Requirement R10 still apply to that Transmission station or Transmission substation until a new risk assessment demonstrates otherwise.

5.3. The Transmission Owner shall identify the primary control center that operationally controls each Transmission station or Transmission substation identified as causing instability, uncontrolled separation, or Cascading within an Interconnection when rendered inoperable or damaged in the Requirement R5 risk assessment.

M5. Examples of acceptable evidence may include, but are not limited to, dated written or electronic documentation of the risk assessment satisfying Requirement R5 including the identified Transmission station(s) or Transmission substation(s). For Requirement R5, Part 5.3, examples of acceptable evidence may include, but are not limited to, dated written or electronic documentation of the identification of the primary control center that operationally controls each identified Transmission station or Transmission substation.

~~R1.— Each Transmission Owner shall perform an initial risk assessment and subsequent risk assessments of its Transmission stations and Transmission substations (existing and planned to be in service within 24 months) that meet the criteria specified in Applicability Section 4.1.1. The initial and subsequent risk assessments shall consist of a transmission analysis or transmission analyses designed to identify the Transmission station(s) and Transmission substation(s) that if rendered inoperable or damaged could result in instability, uncontrolled separation, or Cascading within an Interconnection. [VRF: High; Time Horizon: Long term Planning]~~

~~1.1.— Subsequent risk assessments shall be performed:~~

~~• At least once every 30 calendar months for a Transmission Owner that has identified in its previous risk assessment (as verified according to Requirement R2) one or more Transmission stations or Transmission substations that if rendered inoperable or damaged could result in instability, uncontrolled separation, or Cascading within an Interconnection; or~~

~~• At least once every 60 calendar months for a Transmission Owner that has not identified in its previous risk assessment (as verified according to Requirement R2) any Transmission stations or Transmission substations that if rendered inoperable or damaged could result in instability, uncontrolled separation, or Cascading within an Interconnection.~~

~~1.2.— The Transmission Owner shall identify the primary control center that operationally controls each Transmission station or Transmission substation identified in the Requirement R1 risk assessment.~~

~~M1. Examples of acceptable evidence may include, but are not limited to, dated written or electronic documentation of the risk assessment of its Transmission stations and Transmission substations (existing and planned to be in service within 24 months) that meet the criteria in Applicability Section 4.1.1 as specified in Requirement R1. Additionally, examples of acceptable evidence may include, but are not limited to, dated written or electronic documentation of the identification of the primary control center that operationally controls each Transmission station or Transmission substation identified in the Requirement R1 risk assessment as specified in Requirement R1, Part 1.2.~~

R6. ~~R2.~~ Each Transmission Owner shall have an unaffiliated third-party verify the risk assessment performed under Requirement ~~R1~~**R5**. The verification may occur ~~concurrent~~**concurrently** with or after the risk assessment performed under Requirement ~~R1.~~ *[VRF: Medium***R5. [Violation Risk Factor: Medium; Time-Horizon: Long-term Planning]**

6.1. ~~2.1.~~ Each Transmission Owner shall select an unaffiliated verifying entity that is either:

- A registered Planning Coordinator, Transmission Planner, or Reliability Coordinator; or
- An entity that has transmission planning or analysis experience.

6.2. ~~2.2.~~ The unaffiliated third-party verification shall verify the Transmission Owner's risk assessment performed under Requirement ~~R1~~**R5**, which may include recommendations for the addition or deletion of a Transmission station(s) or Transmission substation(s). The Transmission Owner shall ensure the verification is completed within 90 calendar days following the completion of the Requirement ~~R1~~**R5** risk assessment.

6.3. ~~2.3.~~ If the unaffiliated verifying entity recommends that the Transmission Owner add a Transmission station(s) or Transmission substation(s) to, or remove a Transmission station(~~s~~) or Transmission substation(~~s~~) from, its identification under Requirement ~~R1~~**R5**, the Transmission Owner shall either, within 60 calendar days of completion of the verification, for each recommended addition or removal of a Transmission station or Transmission substation:

- Modify its identification under Requirement ~~R1~~**R5** consistent with the recommendation; or
- Document the technical basis for not modifying the identification in accordance with the recommendation.

6.4. ~~2.4.~~ Each Transmission Owner shall implement procedures, such as the use of non-disclosure agreements, for protecting sensitive or confidential information made available to the unaffiliated third-party verifier and to protect or exempt

sensitive or confidential information developed pursuant to this Reliability Standard from public disclosure.

- M6. ~~M2.~~** Examples of acceptable evidence may include, but are not limited to, dated written or electronic documentation that the Transmission Owner completed an unaffiliated third party verification of the Requirement ~~R1~~**R5** risk assessment and satisfied all of the applicable provisions of Requirement ~~R2~~**R6**, including, if applicable, documenting the technical basis for not modifying the ~~Requirement R1~~ identification in Requirements **R1, R2, R3, R4, and R5** as specified under Part ~~2.36.3~~. Additionally, examples of evidence may include, but are not limited to, written or electronic documentation of procedures to protect information under Part ~~2.46.4~~.
- R7. ~~R3.~~** For a primary control center(s) identified by the Transmission Owner according to Requirement ~~R1~~**R5**, Part ~~1.25.2~~ that a) operationally controls an identified Transmission station or Transmission substation verified according to Requirement ~~R2~~**R6**, and b) is not under the operational control of the Transmission Owner: the Transmission Owner shall, within seven calendar days following completion of Requirement ~~R2~~**R6**, notify the Transmission Operator that has operational control of the primary control center of such identification and the date of completion of Requirement ~~R2.~~ *[VRF: Lower* ~~R6.~~ *[Violation Risk Factor: Lower; Time-Horizon: Long-term Planning]*
- 7.1. ~~3.1.~~** If a Transmission station or Transmission substation previously identified under ~~Requirement~~ Requirements **R1, R2, R3, R4, and R5** and verified according to Requirement ~~R2~~**R6** is removed from the identification during a subsequent risk assessment performed according to Requirement ~~R1~~**R5** or a verification according to Requirement ~~R2~~**R6**, then the Transmission Owner shall, within seven calendar days following the verification or the subsequent risk assessment, notify the Transmission Operator that has operational control of the primary control center of the removal.
- M7. ~~M3.~~** Examples of acceptable evidence may include, but are not limited to, ~~dated~~ written or electronic notifications or communications that the Transmission Owner notified each Transmission Operator, as applicable, according to Requirement ~~R3~~**R7**.
- R8. ~~R4.~~** Each Transmission Owner that identified a Transmission station, Transmission substation, or a primary control center in Requirement ~~R1~~**R5** and verified according to Requirement ~~R2~~**R6**, and each Transmission Operator notified by a Transmission Owner according to Requirement ~~R3~~**R7**, shall conduct an evaluation of the potential threats and vulnerabilities of a physical attack to each of their respective Transmission station(s), Transmission substation(s), and primary control center(s) identified in Requirement ~~R1~~**R5** and verified according to Requirement ~~R2~~**R6**. The evaluation shall consider the following: *[VRF* ~~Violation Risk Factor: Medium; Time-Horizon: Operations Planning, Long-term Planning]~~

- 8.1. ~~4.1.~~** Unique characteristics of the identified and verified Transmission station(s), Transmission substation(s), and primary control center(s);
- 8.2. ~~4.2.~~** Prior history of attack(s) on similar facilities taking into account the frequency, geographic proximity, and severity of past physical security related events; and
- 8.3. ~~4.3.~~** Intelligence or threat warnings received from sources such as law enforcement, the Electric Reliability Organization (ERO), the Electricity Sector Information Sharing and Analysis Center (~~ES~~-ISAC), U.S. federal and/or Canadian governmental agencies, or their successors.
- M4M8.** Examples of evidence may include, but are not limited to, dated written or electronic documentation that the Transmission Owner or Transmission Operator conducted an evaluation of the potential threats and vulnerabilities of a physical attack to their respective Transmission station(s), Transmission substation(s), and primary control center(s) as specified in Requirement **R4R8**.
- R9. ~~R5.~~** Each Transmission Owner that identified a Transmission station, Transmission substation, or primary control center in Requirement **R1R5** and verified according to Requirement **R2R6**, and each Transmission Operator notified by a Transmission Owner according to Requirement **R3R7**, shall develop and implement a documented physical security plan(s) that covers their respective Transmission station(s), Transmission substation(s), and primary control center(s). The physical security plan(s) shall be developed within 120 calendar days following the completion of Requirement **R2R6** and executed according to the timeline specified in the physical security plan(s). The physical security plan(s) shall include the following attributes: [~~VRF~~*Violation Risk Factor: High; Time-Horizon: Long-term Planning*]
- 9.1. ~~5.1.~~** Resiliency or security measures designed collectively to deter, detect, delay, assess, communicate, and respond to potential physical threats and vulnerabilities identified during the evaluation conducted in Requirement **R4R8**.
- 9.2. ~~5.2.~~** Law enforcement contact and coordination information.
- 9.3. ~~5.3.~~** A timeline for executing the physical security enhancements and modifications specified in the physical security plan.
- 9.4. ~~5.4.~~** Provisions to evaluate evolving physical threats, and their corresponding security measures, to the Transmission station(s), Transmission substation(s), or primary control center(s).
- M5M9.** Examples of evidence may include, but are not limited to, dated written or electronic documentation of its physical security plan(s) that covers their respective identified and verified Transmission station(s), Transmission substation(s), and primary control center(s) as specified in Requirement **R5R6**, and additional evidence demonstrating execution of the physical security plan according to the timeline specified in the physical security plan.

R10. ~~R6~~—Each Transmission Owner that identified a Transmission station, Transmission substation, or primary control center in Requirement ~~R1R5~~ and verified according to Requirement ~~R2R6~~, and each Transmission Operator notified by a Transmission Owner according to Requirement ~~R3R7~~, shall have an unaffiliated third party review the evaluation performed under Requirement ~~R4R8~~ and the security plan(s) developed under Requirement ~~R5R9~~. The review may occur concurrently with or after completion of the evaluation performed under Requirement ~~R4R8~~ and the security plan development under Requirement ~~R5~~. ~~[VRFR9. [Violation Risk Factor: Medium; Time-Horizon: Long-term Planning]~~

~~10.1.6.1~~— Each Transmission Owner and Transmission Operator shall select an unaffiliated third-party reviewer from the following:

- An entity or organization with electric industry physical security experience and whose review staff has at least one member who holds either a Certified Protection Professional (CPP) or Physical Security Professional (PSP) certification~~;~~
- An entity or organization approved by the ERO~~;~~
- A governmental agency with physical security expertise~~;~~ or
- An entity or organization with demonstrated law enforcement, government, or military physical security expertise.

~~10.2.6.2~~— The Transmission Owner or Transmission Operator, respectively, shall ensure that the unaffiliated third-party review is completed within 90 calendar days of completing the security plan(s) developed in Requirement ~~R5R9~~. The unaffiliated third-party review may, but is not required to, include recommended changes to the evaluation performed under Requirement ~~R4R8~~ or the security plan(s) developed under Requirement ~~R5R9~~.

~~10.3.6.3~~— If the unaffiliated third-party reviewer recommends changes to the evaluation performed under Requirement ~~R4R8~~ or security plan(s) developed under Requirement ~~R5R9~~, the Transmission Owner or Transmission Operator shall, within 60 calendar days of the completion of the unaffiliated third party review, for each recommendation:

- Modify its evaluation or security plan(s) consistent with the recommendation; or
- Document the reason(s) for not modifying the evaluation or security plan(s) consistent with the recommendation.

~~10.4.6.4~~— Each Transmission Owner and Transmission Operator shall implement procedures, such as the use of non-disclosure agreements, for protecting sensitive or confidential information made available to the unaffiliated ~~third party~~~~third-party~~ reviewer and to protect or exempt sensitive or confidential

information developed pursuant to this Reliability Standard from public disclosure.

~~M6~~**M10**. Examples of evidence may include, but are not limited to, written or electronic documentation that the Transmission Owner or Transmission Operator had an unaffiliated third party review the evaluation performed under Requirement ~~R4~~**R8** and the security plan(s) developed under Requirement ~~R5~~**R9** as specified in Requirement ~~R6~~**R10** including, if applicable, documenting the reasons for not modifying the evaluation or security plan(s) in accordance with a recommendation under Part ~~6.3~~**10.3**. Additionally, examples of evidence may include, but are not limited to, written or electronic documentation of procedures to protect information under Part ~~6.4~~**10.4**.

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~~

1.2. Evidence Retention: The following evidence retention ~~periods~~period(s) 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 ~~during an on-site visit~~ to show that it was compliant for the ~~full-time~~full-time period since the last audit.

The Transmission Owner and Transmission Operator shall keep data or evidence to show compliance, as identified below, unless directed by its ~~Compliance Enforcement Authority (CEA)~~ to retain specific evidence for a longer period of time as part of an investigation~~—~~:

The responsible entities shall retain ~~documentation as~~ evidence, as per ~~Requirements R1 through R10~~, for three 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, ~~subject to the confidentiality provisions of Section 1500 of the Rules of Procedure and the provisions of Section 1.4 below.~~

~~1.3. Compliance Monitoring and Assessment Processes:~~

~~Compliance Audits~~

~~Self-Certifications~~

~~Spot-Checking~~

1.3. Compliance Monitoring and Enforcement Program: “Compliance Monitoring Enforcement Program” or “CMEP” means, depending on the context (1) the NERC Compliance Monitoring and Enforcement Program (Appendix 4C to the NERC Rules of Procedure) or the Commission-approved program of a Regional Entity, as applicable, or (2) the program, department or organization within NERC or a Regional Entity that is responsible for performing compliance monitoring and enforcement activities with respect to Registered Entities’ compliance with Reliability Standards.

~~Compliance~~ **Violation** ~~Investigations~~ **Severity Levels**
~~Self-Reporting~~
~~Complaints-Text~~

2. Table of Compliance Elements

R-#	Time Horizon	Violation Severity Levels (CIP-014-3)			
		Lower VSL	Moderate VSL	High VSL	Severe VSL
R1	Long-term Planning	<p>The Transmission Owner performed an initial risk assessment but did so after the date specified in the implementation plan for performing the initial risk assessment but less than or equal to two calendar months after that date;</p> <p>OR</p> <p>The Transmission Owner that has identified in its previous risk assessment one or more Transmission stations or Transmission substations that if rendered inoperable or damaged could result in instability, uncontrolled</p>	<p>The Transmission Owner performed an initial risk assessment but did so more than two calendar months after the date specified in the implementation plan for performing the initial risk assessment but less than or equal to four calendar months after that date;</p> <p>OR</p> <p>The Transmission Owner that has identified in its previous risk assessment one or more Transmission stations or Transmission substations that if rendered inoperable or damaged could result in instability, uncontrolled separation,</p>	<p>The Transmission Owner performed an initial risk assessment but did so more than four calendar months after the date specified in the implementation plan for performing the initial risk assessment but less than or equal to six calendar months after that date;</p> <p>OR</p> <p>The Transmission Owner that has identified in its previous risk assessment one or more Transmission stations or Transmission substations that if rendered inoperable or damaged could result in instability, uncontrolled separation,</p>	<p>The Transmission Owner performed an initial risk assessment but did so more than six calendar months after the date specified in the implementation plan for performing the initial risk assessment;</p> <p>OR</p> <p>The Transmission Owner failed to perform an initial risk assessment;</p> <p>OR</p> <p>The Transmission Owner that has identified in its previous risk assessment one or more Transmission stations or Transmission substations that if rendered</p>

R-#	Time Horiz on	Violation Severity Levels (CIP-014-3)			
		Lower VSL	Moderate VSL	High VSL	Severe VSL
		<p>separation, or Cascading within an Interconnection performed a subsequent risk assessment but did so after 30 calendar months but less than or equal to 32 calendar months;</p> <p>OR</p> <p>The Transmission Owner that has not identified in its previous risk assessment any Transmission stations or Transmission substations that if rendered inoperable or damaged could result in instability, uncontrolled separation, or Cascading within an Interconnection</p>	<p>or Cascading within an Interconnection performed a subsequent risk assessment but did so after 32 calendar months but less than or equal to 34 calendar months;</p> <p>OR</p> <p>The Transmission Owner that has not identified in its previous risk assessment any Transmission stations or Transmission substations that if rendered inoperable or damaged could result in instability, uncontrolled separation, or Cascading within an Interconnection performed a subsequent risk assessment but did so after 62 calendar months</p>	<p>or Cascading within an Interconnection performed a subsequent risk assessment but did so after 34 calendar months but less than or equal to 36 calendar months;</p> <p>OR</p> <p>The Transmission Owner that has not identified in its previous risk assessment any Transmission stations or Transmission substations that if rendered inoperable or damaged could result in instability, uncontrolled separation, or Cascading within an Interconnection performed a subsequent risk assessment but did so after 64 calendar</p>	<p>inoperable or damaged could result in instability, uncontrolled separation, or Cascading within an Interconnection performed a subsequent risk assessment but did so after more than 36 calendar months;</p> <p>OR</p> <p>The Transmission Owner that has identified in its previous risk assessment one or more Transmission stations or Transmission substations that if rendered inoperable or damaged could result in instability, uncontrolled separation, or Cascading within an Interconnection failed to perform a risk assessment;</p>

R-#	Time Horizon	Violation Severity Levels (CIP-014-3)			
		Lower VSL	Moderate VSL	High VSL	Severe VSL
		performed a subsequent risk assessment but did so after 60 calendar months but less than or equal to 62 calendar months.	but less than or equal to 64 calendar months.	months but less than or equal to 66 calendar months; OR The Transmission Owner performed a risk assessment but failed to include Part 1.2.	OR The Transmission Owner that has not identified in its previous risk assessment any Transmission stations or Transmission substations that if rendered inoperable or damaged could result in instability, uncontrolled separation, or Cascading within an Interconnection performed a subsequent risk assessment but did so after more than 66 calendar months; OR The Transmission Owner that has not identified in its previous risk assessment any Transmission station and Transmission substations that if rendered

R-#	Time Horizon	Violation Severity Levels (CIP-014-3)			
		Lower VSL	Moderate VSL	High VSL	Severe VSL
					inoperable or damaged could result in instability, uncontrolled separation, or cascading within an interconnection failed to perform a subsequent risk assessment.
R1.	Long-term Planning	<p>The Transmission Owner identified each applicable Transmission station(s) or Transmission substation(s) per Attachment 1, but did so after 36 calendar months, but less than or equal to 38 calendar months.</p> <p>OR</p> <p>The Transmission Owner identified each applicable Transmission station(s) or Transmission substation(s), but failed to identify less than or equal to 10% of the applicable Transmission station(s) or Transmission</p>	<p>The Transmission Owner identified each applicable Transmission station(s) or Transmission substation(s) per Attachment 1, but did so after 38 calendar months, but less than or equal to 40 calendar months.</p> <p>OR</p> <p>The Transmission Owner identified each applicable Transmission station(s) or Transmission substation(s), but failed to identify more than 10% and less than or equal to 20% of the applicable Transmission</p>	<p>The Transmission Owner identified each applicable Transmission station(s) or Transmission substation(s) per Attachment 1, but did so after 40 calendar months, but less than or equal to 42 calendar months.</p> <p>OR</p> <p>The Transmission Owner identified each applicable Transmission station(s) or Transmission substation(s), but failed to identify more than 20% and less than or equal to 30% of the applicable Transmission</p>	<p>The Transmission Owner failed to identify each applicable Transmission station(s) or Transmission substation(s) per Attachment 1.</p> <p>OR</p> <p>The Transmission Owner identified each applicable Transmission station(s) or Transmission substation(s) per Attachment 1, but did so after more than 42 calendar months.</p> <p>OR</p> <p>The Transmission Owner identified each applicable</p>

R-#	Time Horizon	Violation Severity Levels (CIP-014-3)			
		Lower VSL	Moderate VSL	High VSL	Severe VSL
		substation(s) per Attachment 1.	station(s) or Transmission substation(s) per Attachment 1.	station(s) or Transmission substation(s) per Attachment 1.	Transmission station(s) or Transmission substation(s), but failed to identify more than 30% of the applicable Transmission station(s) or Transmission substation(s) per Attachment 1.

	Violation Severity Levels			
	Lower VSL	Moderate VSL	High VSL	Severe VSL
R2.	N/A	N/A	N/A	<u>The Transmission Owner did not identify proximate Transmission station(s) and Transmission substation(s), irrespective of ownership, within 1500 feet or 457 meters (the shortest distance, measured substation fence line to substation fence line) of an applicable Transmission station</u>

				<u>or Transmission substation identified in Requirement R1.</u>
R3.	<u>The Transmission Owner has a risk assessment methodology that failed to include one of the requirements listed in Parts 3.1 through 3.4.</u>	<u>The Transmission Owner has a risk assessment methodology that failed to include two of the requirements listed in Parts 3.1 through 3.4.</u>	<u>The Transmission Owner has a risk assessment methodology that failed to include three of the requirements listed in Parts 3.1 through 3.4.</u>	<u>The Transmission Owner has a risk assessment methodology that failed to include four of the requirements listed in Parts 3.1 through 3.4.</u> <u>OR</u> <u>The Transmission Owner does not have a risk assessment methodology.</u>

	Violation Severity Levels			
	Lower VSL	Moderate VSL	High VSL	Severe VSL
R4.	<u>The Transmission Owner with applicable Transmission station(s) and Transmission substation(s) identified in Requirement R1 containing Bulk Electric System (BES) Elements owned by multiple Transmission Owners failed to coordinate with each appropriate Transmission Owner(s) to determine and document their individual and joint responsibilities for documenting a risk assessment methodology under Requirement R3 and for performing any required risk assessments per Requirement R5 for less than or equal to 25% of jointly owned applicable Transmission station(s) and Transmission substation(s).</u>	<u>The Transmission Owner with applicable Transmission station(s) and Transmission substation(s) identified in Requirement R1 containing Bulk Electric System (BES) Elements owned by multiple Transmission Owners failed to coordinate with each appropriate Transmission Owner(s) to determine and document their individual and joint responsibilities for documenting a risk assessment methodology under Requirement R3 and for performing any required risk assessments per Requirement R5 for more than 25% and less than or equal to 50% of jointly owned applicable Transmission station(s) and Transmission substation(s).</u>	<u>The Transmission Owner with applicable Transmission station(s) and Transmission substation(s) identified in Requirement R1 containing Bulk Electric System (BES) Elements owned by multiple Transmission Owners failed to coordinate with each appropriate Transmission Owner(s) to determine and document their individual and joint responsibilities for documenting a risk assessment methodology under Requirement R3 and for performing any required risk assessments per Requirement R5 for more than 50% and less than or equal to 75% of jointly owned applicable Transmission station(s) and Transmission substation(s).</u>	<u>The Transmission Owner with applicable Transmission station(s) and Transmission substation(s) identified in Requirement R1 containing Bulk Electric System (BES) Elements owned by multiple Transmission Owners failed to coordinate with each appropriate Transmission Owner(s) to determine and document their individual and joint responsibilities for documenting a risk assessment methodology under Requirement R3 and for performing any required risk assessments per Requirement R5 for more than 75% and less than or equal to 100% any evidence of jointly owned applicable Transmission station(s) and Transmission substation(s).</u>
R5.	<u>The Transmission Owner performed a risk assessment, but did so after 36 calendar</u>	<u>The Transmission Owner performed a risk assessment, but did so after 38 calendar</u>	<u>The Transmission Owner performed a risk assessment, but did so after 40 calendar</u>	<u>The Transmission Owner performed a risk assessment, but did so after more than 42 calendar months.</u>

	Violation Severity Levels			
	Lower VSL	Moderate VSL	High VSL	Severe VSL
	<u>months, but less than or equal to 38 calendar months.</u> <u>OR</u> <u>The Transmission Owner performed a risk assessment inconsistent with one of the methodology requirements listed in Requirement R3, Parts 3.1 through 3.4.</u>	<u>months, but less than or equal to 40 calendar months.</u> <u>OR</u> <u>The Transmission Owner performed a risk assessment inconsistent with two of the methodology requirements listed in Requirement R3, Parts 3.1 through 3.4.</u>	<u>months, but less than or equal to 42 calendar months.</u> <u>OR</u> <u>The Transmission Owner performed a risk assessment inconsistent with three of the methodology requirements listed in Requirement R3, Parts 3.1 through 3.4.</u> <u>OR</u> <u>The Transmission Owner performed a risk assessment but failed to include the primary control center identified in Part 5.2.</u>	<u>OR</u> <u>The Transmission Owner performed a risk assessment inconsistent with four of the methodology requirements listed in Requirement R3, Parts 3.1 through 3.4.</u>
R2 Long-term Planning MediumR6.	The Transmission Owner had an unaffiliated third party verify the risk assessment performed under Requirement R1 R5, but did so in more than 90 calendar days, but less than or equal to 100 calendar days following completion of Requirement R1 R5.	The Transmission Owner had an unaffiliated third party verify the risk assessment performed under Requirement R1 R5, but did so more than 100 calendar days, but less than or equal to 110 calendar days following completion of Requirement R1 R5.	The Transmission Owner had an unaffiliated third party verify the risk assessment performed under Requirement R1 R5, but did so more than 110 calendar days, but less than or equal to 120 calendar days following completion of Requirement R1 R5.	The Transmission Owner had an unaffiliated third party verify the risk assessment performed under Requirement R1 R5, but did so more than 120 calendar days following completion of Requirement R1 R5. OR

	Violation Severity Levels			
	Lower VSL	Moderate VSL	High VSL	Severe VSL
	<p>OR</p> <p>The Transmission Owner had an unaffiliated third party verify the risk assessment performed under Requirement R1R5 and modified or documented the technical basis for not modifying its identification under Requirement R1R5 as required by Part 2.3Part6.3, but did so more than 60 calendar days and less than or equal to 70 calendar days from completion of the third party verification.</p>	<p>OR</p> <p>The Transmission Owner had an unaffiliated third party verify the risk assessment performed under Requirement R1R5 and modified or documented the technical basis for not modifying its identification under Requirement R1R5 as required by Part 2.3Part6.3, but did so more than 70 calendar days and less than or equal to 80 calendar days from completion of the third party verification.</p>	<p>OR</p> <p>The Transmission Owner had an unaffiliated third party verify the risk assessment performed under Requirement R1R5 and modified or documented the technical basis for not modifying its identification under Requirement R1R5 as required by Part 2.36.3, but did so more than 80 calendar days from completion of the third party verification.</p> <p>OR</p> <p>The Transmission Owner had an unaffiliated third party verify the risk assessment performed under Requirement R1R5, but failed to modify or document the technical basis for not modifying its identification under R1R4 as required by Part 2.36.3.</p>	<p>The Transmission Owner failed to have an unaffiliated third party verify the risk assessment performed under Requirement R1R5.</p> <p>OR</p> <p>The Transmission Owner had an unaffiliated third party verify the risk assessment performed under Requirement R1R5, but failed to implement procedures for protecting information per Part 2.46.4.</p>
R3	The Transmission Owner notified the Transmission	The Transmission Owner notified the Transmission	The Transmission Owner notified the Transmission	The Transmission Owner notified the Transmission

	Violation Severity Levels			
	Lower VSL	Moderate VSL	High VSL	Severe VSL
<p>Long-term Planning Lower R7.</p>	<p>Operator that operates the primary control center as specified in Requirement R3R7, but did so more than seven calendar days and less than or equal to nine calendar days following the completion of Requirement R2R6.</p> <p>OR</p> <p>The Transmission Owner notified the Transmission Operator that operates the primary control center of the removal from the identification in Requirement R1R5, but did so more than seven calendar days and less than or equal to nine calendar days following the verification or the subsequent risk assessment.</p>	<p>Operator that operates the primary control center as specified in Requirement R3R7, but did so more than nine calendar days and less than or equal to 11 calendar days following the completion of Requirement R2R6.</p> <p>OR</p> <p>The Transmission Owner notified the Transmission Operator that operates the primary control center of the removal from the identification in Requirement R1R5, but did so more than nine calendar days and less than or equal to 11 calendar days following the verification or the subsequent risk assessment.</p>	<p>Operator that operates the primary control center as specified in Requirement R3R7, but did so more than 11 calendar days and less than or equal to 13 calendar days following the completion of Requirement R2R6.</p> <p>OR</p> <p>The Transmission Owner notified the Transmission Operator that operates the primary control center of the removal from the identification in Requirement R1R5, but did so more than 11 calendar days and less than or equal to 13 calendar days following the verification or the subsequent risk assessment.</p>	<p>Operator that operates the primary control center as specified in Requirement R3R7, but did so more than 13 calendar days following the completion of Requirement R2R6.</p> <p>OR</p> <p>The Transmission Owner failed to notify the Transmission Operator that it operates a control center identified in Requirement R1R5.</p> <p>OR</p> <p>The Transmission Owner notified the Transmission Operator that operates the primary control center of the removal from the identification in Requirement R1R5, but did so more than 13 calendar days following the verification or the subsequent risk assessment.</p> <p>OR</p> <p>The Transmission Owner failed to notify the</p>

	Violation Severity Levels			
	Lower VSL	Moderate VSL	High VSL	Severe VSL
				Transmission Operator that operates the primary control center of the removal from the identification in Requirement R4 R5.

		Violation Severity Levels			
		Lower VSL	Moderate VSL	High VSL	Severe VSL
R4R 8.	Operations Planning, Long-term Planning	Medium N/A	The Responsible Entity responsible entity conducted an evaluation of the potential physical threats and vulnerabilities to each of its Transmission station(s), Transmission substation(s), and primary control center(s) identified in Requirement R1R5 , but failed to consider one of Parts 4-18.1 through 4-38.3 in the evaluation.	The Responsible Entity responsible entity conducted an evaluation of the potential physical threats and vulnerabilities to each of its Transmission station(s), Transmission substation(s), and primary control center(s) identified in Requirement R1R5 , but failed to consider two of Parts 4-18.1 through 4-38.3 in the evaluation.	The Responsible Entity responsible entity failed to conduct an evaluation of the potential physical threats and vulnerabilities to each of its Transmission station(s), Transmission substation(s), and primary control center(s) identified in Requirement R1R5 . OR The Responsible Entity responsible entity conducted an evaluation of the potential physical threats and vulnerabilities to each of its Transmission station(s), Transmission substation(s), and primary control center(s) identified in Requirement R1R5 , but failed to consider Parts 4-18.1 through 4-38.3 .

		Violation Severity Levels			
		Lower VSL	Moderate VSL	High VSL	Severe VSL
R5R 9.	Long-term Planning	<p>High</p> <p>The Responsible Entity responsible entity developed and implemented a documented physical security plan(s) that covers each of its Transmission station(s), Transmission substation(s), and primary control center(s) identified in Requirement R1R5, but did so more than 120 calendar days, but less than or equal to 130 calendar days after completing Requirement R2R6.</p> <p>OR</p> <p>The Responsible Entity responsible entity developed and implemented a documented physical security plan(s) that covers its Transmission station(s), Transmission substation(s), and primary control center(s) identified in Requirement R1R5 and</p>	<p>The Responsible Entity responsible entity developed and implemented a documented physical security plan(s) that covers each of its Transmission station(s), Transmission substation(s), and primary control center(s) identified in Requirement R1R5, but did so more than 130 calendar days, but less than or equal to 140 calendar days after completing Requirement R2R6.</p> <p>OR</p> <p>The Responsible Entity responsible entity developed and implemented a documented physical security plan(s) that covers its Transmission station(s), Transmission substation(s), and primary control center(s) identified in Requirement R1R5 and verified according to Requirement R2R6, but</p>	<p>The Responsible Entity responsible entity developed and implemented a documented physical security plan(s) that covers each of its Transmission station(s), Transmission substation(s), and primary control center(s) identified in Requirement R1R5, but did so more than 140 calendar days, but less than or equal to 150 calendar days after completing Requirement R2R6.</p> <p>OR</p> <p>The Responsible Entity responsible entity developed and implemented a documented physical security plan(s) that covers its Transmission station(s), Transmission substation(s), and primary control center(s) identified in Requirement R1R5 and verified according to Requirement R2R6, but</p>	<p>The Responsible Entity responsible entity developed and implemented a documented physical security plan(s) that covers each of its Transmission station(s), Transmission substation(s), and primary control center(s) identified in Requirement R1R5, but did so more than 150 calendar days after completing the verification in Requirement R2R6.</p> <p>OR</p> <p>The Responsible Entity responsible entity failed to develop and implement a documented physical security plan(s) that covers its Transmission station(s), Transmission substation(s), and primary control center(s) identified in Requirement R1R5 and verified according to Requirement R2R6.</p>

		Violation Severity Levels			
		Lower VSL	Moderate VSL	High VSL	Severe VSL
		verified according to Requirement R2 R6, but failed to include one of Parts 5-19.1 through 5-49.4 in the plan.	failed to include two of Parts 5-19.1 through 5-49.4 in the plan.	failed to include three of Parts 5-19.1 through 5-49.4 in the plan.	OR The Responsible Entity responsible entity developed and implemented a documented physical security plan(s) that covers its Transmission station(s), Transmission substation(s), and primary control center(s) identified in Requirement R1 R5 and verified according to Requirement 2 R6, but failed to include Parts 5-19.1 through 5-49.4 in the plan.
R6 R 10.	Long-term Planning	Medium The Responsible Entity responsible entity had an unaffiliated third party review the evaluation performed under Requirement R4 R8 and the security plan(s) developed under Requirement R5 R9, but did so in more than 90 calendar days, but less than or equal to 100 calendar days ; .	The Responsible Entity responsible entity had an unaffiliated third party review the evaluation performed under Requirement R4 R8 and the security plan(s) developed under Requirement R5 R9, but did so in more than 100 calendar days, but less than or equal to 110 calendar days ; . OR	The Responsible Entity responsible entity had an unaffiliated third party review the evaluation performed under Requirement R4 R8 and the security plan(s) developed under Requirement R5 R9, but did so more than 110 calendar days, but less than or equal to 120 calendar days ; . OR	The Responsible Entity responsible entity failed to have an unaffiliated third party review the evaluation performed under Requirement R4 R8 and the security plan(s) developed under Requirement R5 R9 in more than 120 calendar days ; . OR

		Violation Severity Levels			
		Lower VSL	Moderate VSL	High VSL	Severe VSL
		<p>OR</p> <p>The Responsible Entity responsible entity had an unaffiliated third party review the evaluation performed under Requirement R4R8 and the security plan(s) developed under Requirement R5R9 and modified or documented the reason for not modifying the security plan(s) as specified in Part 6.310.3, but did so more than 6070 calendar days and less than or equal to 7080 calendar days following completion of the third party review.</p>	<p>The Responsible Entity responsible entity had an unaffiliated third party review the evaluation performed under Requirement R4R8 and the security plan(s) developed under Requirement R5R9 and modified or documented the reason for not modifying the security plan(s) as specified in Part 6.310.3, but did so more than 70 calendar days and less than or equal to 80 calendar days following completion of the third party review.</p> <p>OR</p> <p>The responsible entity had an unaffiliated third party review the evaluation performed under Requirement R8 and the security plan(s) developed under Requirement R9, but did not document the reason for not modifying</p>	<p>The Responsible Entity responsible entity failed to have an unaffiliated third party review the evaluation performed under Requirement R4R8 and the security plan(s) developed under Requirement R5 and modified or documented the reason for not modifying the security plan(s) as specified in Part 6.3 but did so more than 80 calendar days following completion of the third party review; R9.</p> <p>OR</p> <p>The Responsible Entity responsible entity had an unaffiliated third party review the evaluation performed under Requirement R4R8 and the security plan(s) developed under Requirement R5R9, but did not document the reason for not modifying the security plan(s) as specified in failed to</p>	<p>The Responsible Entity failed to have an unaffiliated third party review the evaluation performed under Requirement R4 and the security plan(s) developed under Requirement R5;</p> <p>OR</p> <p>The Responsible Entity had an unaffiliated third party review the evaluation performed under Requirement R4 and the security plan(s) developed under Requirement R5 but failed to implement procedures for protecting information per Part 6.4.</p>

		Violation Severity Levels			
		Lower VSL	Moderate VSL	High VSL	Severe VSL
			the security plan(s) as specified in Part 10.3.	implement procedures for protecting information per Part 6.310.4.	

D. Regional Variances

None.

E. Interpretations

None.

F. Associated Documents

~~None.~~

CIP-014-4 Implementation Plan

CIP-014-4 Technical Rationale Document

Version History

Version	Date	Action	Change Tracking
1	October 1, 2015	Effective Date	New
2	April 16, 2015	Revised to meet FERC Order 802 directive to remove “widespread”.	Revision
2	May 7, 2015	Adopted by the NERC Board of Trustees	
2	July 14, 2015	FERC Letter Order in Docket No. RD15-4-000 approving CIP-014-2	
3	January 19, 2022	Revised to remove Compliance Section 1.4	Revision
3	June 16, 2022	FERC Letter Order in Docket No. RD22-3-000 approving Modifications to CIP-014-3	Revision
3	June 16, 2022	Effective Date	Revision
4	TBD	Revisions made by the Project 2023-06 drafting team	Revision

Guidelines and Technical Basis

Section 4 Attachment 1—Applicability Criteria

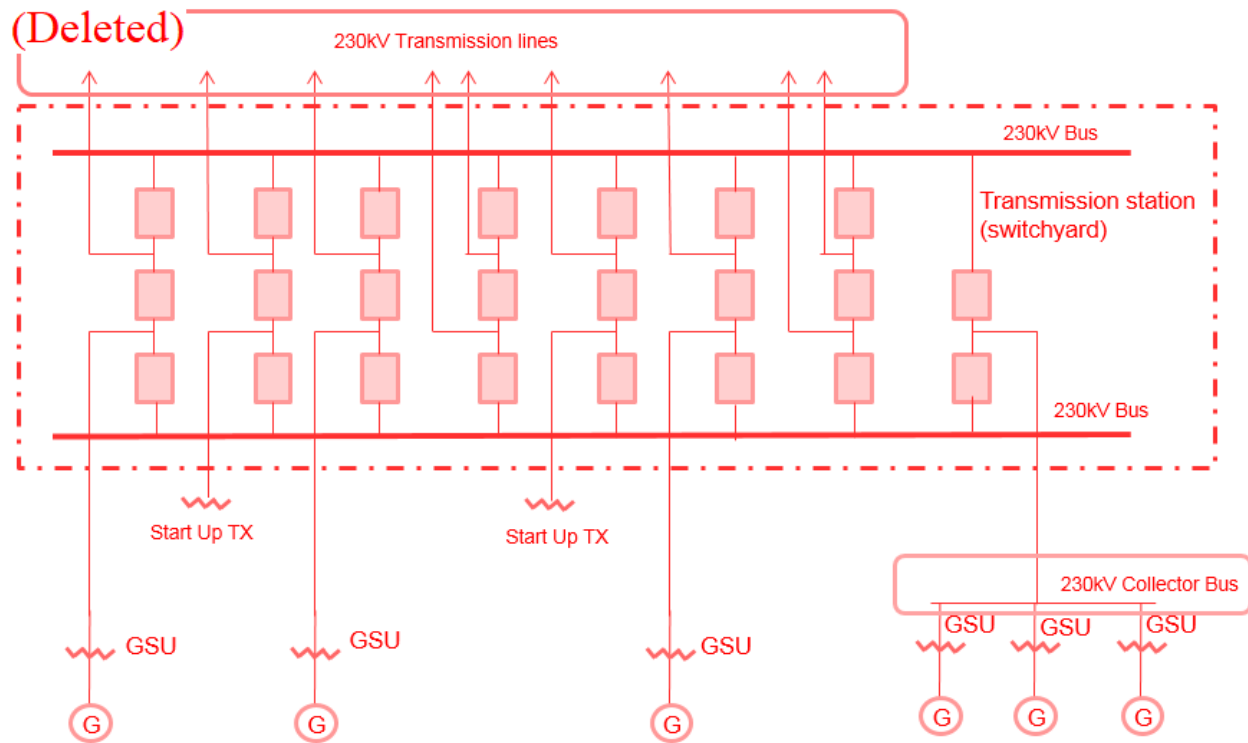
The purpose of Reliability Standard CIP-014 is to protect Transmission stations and Transmission substations, and their associated primary control centers that if rendered inoperable or damaged as a result of a physical attack could result in instability, uncontrolled separation, or Cascading within an Interconnection. To properly include those entities that own or operate such Facilities, the Reliability Standard CIP-014 first applies to Transmission Owners that own Transmission Facilities that meet the specific criteria in Applicability Section 4.1.1.1 through 4.1.1.4. The Facilities described in Applicability Section 4.1.1.1 through 4.1.1.4 mirror those Transmission Facilities that meet the bright line criteria for “Medium Impact” Transmission Facilities under Attachment 1 of Reliability Standard CIP-002-5.1. Each Transmission Owner that owns Transmission Facilities that meet the criteria in Section 4.1.1.1 through 4.1.1.4 is required to perform a risk assessment as specified in Requirement R1 to identify its Transmission stations and Transmission substations, and their associated primary control centers, that if rendered inoperable or damaged as a result of a physical attack could result in instability, uncontrolled separation, or Cascading within an Interconnection. The Standard Drafting Team (SDT) expects this population will be small and that many Transmission Owners that meet the applicability of this standard will not actually identify any such Facilities. Only those Transmission Owners with Transmission stations or Transmission substations identified in the risk assessment (and verified under Requirement R2) have performance obligations under Requirements R3 through R6.

This standard also applies to Transmission Operators. A Transmission Operator’s obligations under the standard, however, are only triggered if the Transmission Operator is notified by an applicable Transmission Owner under Requirement R3 that the Transmission Operator operates a primary control center that operationally controls a Transmission station(s) or Transmission substation(s) identified in the Requirement R1 risk assessment. A primary control center operationally controls a Transmission station or Transmission substation when the control center’s electronic actions can cause direct physical action at the identified Transmission station or Transmission substation, such as opening a breaker, as opposed to a control center that only has information from the Transmission station or Transmission substation and must coordinate direct action through another entity. Only Transmission Operators who are notified that they have primary control centers under this standard have performance obligations under Requirements R4 through R6. In other words, primary control center for purposes of this Standard is the control center that the Transmission Owner or Transmission Operator, respectively, uses as its primary, permanently-manned site to physically operate a Transmission station or Transmission substation that is identified in Requirement R1 and verified in Requirement R2. Control centers that provide back-up capability are not applicable, as they are a form of resiliency and intentionally redundant.

The SDT considered several options for bright line criteria that could be used to determine applicability and provide an initial threshold that defines the set of Transmission stations and Transmission substations that would meet the directives of the FERC order on physical security (*i.e.*, those that could cause instability, uncontrolled separation, or Cascading within an

~~Interconnection). The SDT determined that using the criteria for Medium Impact Transmission Facilities in Attachment 1 of CIP-002-5.1 would provide a conservative threshold for defining which Transmission stations and Transmission substations must be included in the risk assessment in Requirement R1 of CIP-014. Additionally, the SDT concluded that using the CIP-002-5.1 Medium Impact criteria was appropriate because it has been approved by stakeholders, NERC, and FERC, and its use provides a technically sound basis to determine which Transmission Owners should conduct the risk assessment. As described in CIP-002-5.1, the failure of a Transmission station or Transmission substation that meets the Medium Impact criteria could have the capability to result in exceeding one or more Interconnection Reliability Operating Limits (IROLs). The SDT understands that using this bright line criteria to determine applicability may require some Transmission Owners to perform risk assessments under Requirement R1 that will result in a finding that none of their Transmission stations or Transmission substations would pose a risk of instability, uncontrolled separation, or Cascading within an Interconnection. However, the SDT determined that higher bright lines could not be technically justified to ensure inclusion of all Transmission stations and Transmission substations, and their associated primary control centers that, if rendered inoperable or damaged as a result of a physical attack could result in instability, uncontrolled separation, or Cascading within an Interconnection. Further guidance and technical basis for the bright line criteria for Medium Impact Facilities can be found in the Guidelines and Technical Basis section of CIP-002-5.1.~~

~~Additionally, the SDT determined that it was not necessary to include Generator Operators and Generator Owners in the Reliability Standard. First, Transmission stations or Transmission substations interconnecting generation facilities are considered when determining applicability. Transmission Owners will consider those Transmission stations and Transmission substations that include a Transmission station on the high side of the Generator Step-up transformer (GSU) using Applicability Section 4.1.1.1 and 4.1.1.2. As an example, a Transmission station or Transmission substation identified as a Transmission Owner facility that interconnects generation will be subject to the Requirement R1 risk assessment if it operates at 500kV or greater or if it is connected at 200 kV—499kV to three or more other Transmission stations or Transmission substations and has an "aggregate weighted value" exceeding 3000 according to the table in Applicability Section 4.1.1.2. Second, the Transmission analysis or analyses conducted under Requirement R1 should take into account the impact of the loss of generation connected to applicable Transmission stations or Transmission substations. Additionally, the FERC order does not explicitly mention generation assets and is reasonably understood to focus on the most critical Transmission Facilities. The diagram below shows an example of a station.~~



Also, the SDT uses the phrase “Transmission stations or Transmission substations” to recognize the existence of both stations and substations. Many entities in industry consider a substation to be a location with physical borders (i.e. fence, wall, etc.) that contains at least an autotransformer. Locations also exist that do not contain autotransformers, and many entities in industry refer to those locations as stations (switching stations or switchyards). Therefore, the SDT chose to use both “station” and “substation” to refer to the locations where groups of Transmission Facilities exist.

On the issue of joint ownership, the SDT recognizes that this issue is not unique to CIP-014, and expects that the applicable Transmission Owners and Transmission Operators will develop memorandums of understanding, agreements, Coordinated Functional Registrations, or procedures, etc., to designate responsibilities under CIP-014 when joint ownership is at issue, which is similar to what many entities have completed for other Reliability Standards.

The language contained in the applicability section regarding the collector bus is directly copied from CIP-002-5.1, Attachment 1, and has no additional meaning within the CIP-014 standard.

Requirement R1

The initial risk assessment required under Requirement R1 must be completed on or before the effective date of the standard. Subsequent risk assessments are to be performed at least once every 30 or 60 months depending on the results of the previous risk assessment per Requirement R1, Part 1.1. In performing the risk assessment under Requirement R1, the Transmission Owner should first identify their population of Transmission stations and Transmission substations that meet the criteria contained in Applicability Section 4.1.1.

~~Requirement R1 then requires the Transmission Owner to perform a risk assessment, consisting of a transmission analysis, to determine which of those Transmission stations and Transmission Substations if rendered inoperable or damaged could result in instability, uncontrolled separation, or Cascading within an Interconnection. The requirement is not to require identification of, and thus, not intended to bring within the scope of the standard a Transmission station or Transmission substation unless the applicable Transmission Owner determines through technical studies and analyses based on objective analysis, technical expertise, operating experience and experienced judgment that the loss of such facility would have a critical impact on the operation of the Interconnection in the event the asset is rendered inoperable or damaged. In the November 20, 2014 Order, FERC reiterated that “only an instability that has a “critical impact on the operation of the interconnection” warrants finding that the facility causing the instability is critical under Requirement R1.” The Transmission Owner may determine the criteria for critical impact by considering, among other criteria, any of the following:~~

- ~~• Criteria or methodology used by Transmission Planners or Planning Coordinators in TPL-001-4, Requirement R6~~
- ~~• NERC EOP-004-2 reporting criteria~~
- ~~• Area or magnitude of potential impact~~

~~The standard does not mandate the specific analytical method for performing the risk assessment. The Transmission Owner has the discretion to choose the specific method that best suites its needs. As an example, an entity may perform a Power Flow analysis and stability analysis at a variety of load levels.~~

Performing Risk Assessments

~~The Transmission Owner has the discretion to select a transmission analysis method that fits its facts and system circumstances. To mandate a specific approach is not technically desirable and may lead to results that fail to adequately consider regional, topological, and system circumstances. The following guidance is only an example on how a Transmission Owner may perform a power flow and/or stability analysis to identify those Transmission stations and Transmission substations that if rendered inoperable or damaged as a result of a physical attack could result in instability, uncontrolled separation, or Cascading within an Interconnection. An entity could remove all lines, without regard to the voltage level, to a single Transmission station or Transmission substation and review the simulation results to assess system behavior to determine if Cascading of Transmission Facilities, uncontrolled separation, or voltage or frequency instability is likely to occur over a significant area of the Interconnection. Using engineering judgment, the Transmission Owner (possibly in consultation with regional planning or operation committees and/or ISO/RTO committee input) should develop criteria (e.g. imposing a fault near the removed Transmission station or Transmission substation) to identify a contingency or parameters that result in potential instability, uncontrolled separation, or Cascading within an Interconnection. Regional consultation on these matters is likely to be helpful and informative, given that the inputs for the risk assessment and the attributes of what constitutes instability, uncontrolled separation, or Cascading within an Interconnection will~~

~~likely vary from region to region or from ISO to ISO based on topology, system characteristics, and system configurations. Criteria could also include post-contingency facilities loadings above a certain emergency rating or failure of a power flow case to converge. Available special protection systems (SPS), if any, could be applied to determine if the system experiences any additional instability which may result in uncontrolled separation. Example criteria may include:~~

- ~~(a) Thermal overloads beyond facility emergency ratings;~~
- ~~(b) Voltage deviation exceeding $\pm 10\%$; or~~
- ~~(c) Cascading outage/voltage collapse; or~~
- ~~(d) Frequency below under-frequency load shed points~~

Periodicity

~~A Transmission Owner who identifies one or more Transmission stations or Transmission substations (as verified under Requirement R2) that if rendered inoperable or damaged could result in instability, uncontrolled separation, or Cascading within an Interconnection is required to conduct a risk assessment at least once every 30 months. This period ensures that the risk assessment remains current with projected conditions and configurations in the planned system. This risk assessment, as the initial assessment, must consider applicable planned Transmission stations and Transmission substations to be in service within 24 months. The 30 month timeframe aligns with the 24 month planned to be in service date because the Transmission Owner is provided the flexibility, depending on its planning cycle and the frequency in which it may plan to construct a new Transmission station or Transmission substation to more closely align these dates. The requirement is to conduct the risk assessment at least once every 30 months, so for a Transmission Owner that believes it is better to conduct a risk assessment once every 24 months, because of its planning cycle, it has the flexibility to do so.~~

~~Transmission Owners that have not identified any Transmission stations or Transmission substations (as verified under Requirement R2) that if rendered inoperable or damaged could result in instability, uncontrolled separation, or Cascading within an Interconnection are unlikely to see changes to their risk assessment in the Near-Term Planning Horizon. Consequently, a 60 month periodicity for completing a subsequent risk assessment is specified.~~

Identification of Primary Control Centers

~~After completing the risk assessment specified in Requirement R1, it is important to additionally identify the primary control center that operationally controls each Transmission station or Transmission substation that if rendered inoperable or damaged could result in instability, uncontrolled separation, or Cascading within an Interconnection. A primary control center “operationally controls” a Transmission station or Transmission substation when the control center’s electronic actions can cause direct physical actions at the identified Transmission station and Transmission substation, such as opening a breaker.~~

Requirement R2

~~This requirement specifies verification of the risk assessment performed under Requirement R1 by an entity other than the owner or operator of the Requirement R1 risk assessment.~~

~~A verification of the risk assessment by an unaffiliated third party, as specified in Requirement R2, could consist of:~~

- ~~1. Certifying that the Requirement R1 risk assessment considers the Transmission stations and Transmission substations identified in Applicability Section 4.1.1.~~
- ~~2. Review of the model used to conduct the risk assessment to ensure it contains sufficient system topology to identify Transmission stations and Transmission substations that if rendered inoperable or damaged could cause instability, uncontrolled separation, or Cascading within an Interconnection.~~
- ~~3. Review of the Requirement R1 risk assessment methodology.~~

~~This requirement provides the flexibility for a Transmission Owner to select from unaffiliated registered and non-registered entities with transmission planning or analysis experience to perform the verification of the Requirement R1 risk assessment. The term unaffiliated means that the selected verifying entity cannot be a corporate affiliate (i.e., the verifying or third party reviewer cannot be an entity that corporately controls, is controlled by or is under common control with, the Transmission Owner). The verifying entity also cannot be a division of the Transmission Owner that operates as a functional unit.~~

~~The prohibition on registered entities using a corporate affiliate to conduct the verification, however, does not prohibit a governmental entity (e.g., a city, a municipality, a U.S. federal power marketing agency, or any other political subdivision of U.S. or Canadian federal, state, or provincial governments) from selecting as the verifying entity another governmental entity within the same political subdivision. For instance, a U.S. federal power marketing agency may select as its verifier another U.S. federal agency to conduct its verification so long as the selected entity has transmission planning or analysis experience. Similarly, a Transmission Owner owned by a Canadian province can use a separate agency of that province to perform the verification. The verifying entity, however, must still be a third party and cannot be a division of the registered entity that operates as a functional unit.~~

~~Requirement R2 also provides that the “verification may occur concurrent with or after the risk assessment performed under Requirement R1.” This provision is designed to provide the Transmission Owner the flexibility to work with the verifying entity throughout (i.e., concurrent with) the risk assessment, which for some Transmission Owners may be more efficient and effective. In other words, a Transmission Owner could collaborate with their unaffiliated verifying entity to perform the risk assessment under Requirement R1 such that both Requirement R1 and Requirement R2 are satisfied concurrently. The intent of Requirement R2 is to have an entity other than the owner or operator of the facility to be involved in the risk assessment process and have an opportunity to provide input. Accordingly, Requirement R2 is designed to allow entities the discretion to have a two-step process, where the Transmission Owner performs the risk assessment and subsequently has a third party review that~~

~~assessment, or a one-step process, where the entity collaborates with a third party to perform the risk assessment.~~

~~Characteristics to consider in selecting a third party reviewer could include:~~

- ~~• Registered Entity with applicable planning and reliability functions.~~
- ~~• Experience in power system studies and planning.~~
- ~~• The entity's understanding of the MOD standards, TPL standards, and facility ratings as they pertain to planning studies.~~
- ~~• The entity's familiarity with the Interconnection within which the Transmission Owner is located.~~

~~With respect to the requirement that Transmission owners develop and implement procedures for protecting confidential and sensitive information, the Transmission Owner could have a method for identifying documents that require confidential treatment. One mechanism for protecting confidential or sensitive information is to prohibit removal of sensitive or confidential information from the Transmission Owner's site. Transmission Owners could include such a prohibition in a non-disclosure agreement with the verifying entity.~~

~~A Technical feasibility study is not required in the Requirement R2 documentation of the technical basis for not modifying the identification in accordance with the recommendation.~~

~~On the issue of the difference between a verifier in Requirement R2 and a reviewer in Requirement R6, the SDT indicates that the verifier will confirm that the risk assessment was completed in accordance with Requirement R1, including the number of Transmission stations and substations identified, while the reviewer in Requirement R6 is providing expertise on the manner in which the evaluation of threats was conducted in accordance with Requirement R4, and the physical security plan in accordance with Requirement R5. In the latter situation there is no verification of a technical analysis, rather an application of experience and expertise to provide guidance or recommendations, if needed.~~

~~Parts 2.4 and 6.4 require the entities to have procedures to protect the confidentiality of sensitive or confidential information. Those procedures may include the following elements:~~

- ~~1. Control and retention of information on site for third party verifiers/reviewers.~~
- ~~2. Only "need to know" employees, etc., get the information.~~
- ~~3. Marking documents as confidential~~
- ~~4. Securely storing and destroying information when no longer needed.~~
- ~~5. Not releasing information outside the entity without, for example, General Counsel sign-off.~~

Requirement R3

~~Some Transmission Operators will have obligations under this standard for certain primary control centers. Those obligations, however, are contingent upon a Transmission Owner first completing the risk assessment specified by Requirement R1 and the verification specified by~~

~~Requirement R2. Requirement R3 is intended to ensure that a Transmission Operator that has operational control of a primary control center identified in Requirement R1 receive notice so that the Transmission Operator may fulfill the rest of the obligations required in Requirements R4 through R6. Since the timing obligations in Requirements R4 through R6 are based upon completion of Requirement R2, the Transmission Owner must also include within the notice the date of completion of Requirement R2. Similarly, the Transmission Owner must notify the Transmission Operator of any removals from identification that result from a subsequent risk assessment under Requirement R1 or as a result of the verification process under Requirement R2.~~

Requirement R4

~~This requirement requires owners and operators of facilities identified by the Requirement R1 risk assessment and that are verified under Requirement R2 to conduct an assessment of potential threats and vulnerabilities to those Transmission stations, Transmission substations, and primary control centers using a tailored evaluation process. Threats and vulnerabilities may vary from facility to facility based on any number of factors that include, but are not limited to, location, size, function, existing physical security protections, and attractiveness as a target.~~

~~In order to effectively conduct a threat and vulnerability assessment, the asset owner may be the best source to determine specific site vulnerabilities, but current and evolving threats may best be determined by others in the intelligence or law enforcement communities. A number of resources have been identified in the standard, but many others exist and asset owners are not limited to where they may turn for assistance. Additional resources may include state or local fusion centers, U.S. Department of Homeland Security, Federal Bureau of Investigations (FBI), Public Safety Canada, Royal Canadian Mounted Police, and InfraGard chapters coordinated by the FBI.~~

~~The Responsible Entity is required to take a number of factors into account in Parts 4.1 to 4.3 in order to make a risk-based evaluation under Requirement R4.~~

~~To assist in determining the current threat for a facility, the prior history of attacks on similarly protected facilities should be considered when assessing probability and likelihood of occurrence at the facility in question.~~

~~Resources that may be useful in conducting threat and vulnerability assessments include:~~

- ~~• NERC Security Guideline for the Electricity Sector: Physical Security.~~
- ~~• NERC Security Guideline: Physical Security Response.~~
- ~~• ASIS International General Risk Assessment Guidelines.~~
- ~~• ASIS International Facilities Physical Security Measure Guideline.~~
- ~~• ASIS International Security Management Standard: Physical Asset Protection.~~
- ~~• Whole Building Design Guide — Threat/Vulnerability Assessments.~~

Requirement R5

~~This requirement specifies development and implementation of a security plan(s) designed to protect against attacks to the facilities identified in Requirement R1 based on the assessment performed under Requirement R4.~~

~~Requirement R5 specifies the following attributes for the physical security plan:—~~

- ~~• Resiliency or security measures designed collectively to deter, detect, delay, assess, communicate, and respond to potential physical threats and vulnerabilities identified during the evaluation conducted in Requirement R4.~~

~~Resiliency may include, among other things:~~

- ~~a. System topology changes,~~
- ~~b. Spare equipment,~~
- ~~c. Construction of a new Transmission station or Transmission substation.~~

~~While most security measures will work together to collectively harden the entire site, some may be allocated to protect specific critical components. For example, if protection from gunfire is considered necessary, the entity may only install ballistic protection for critical components, not the entire site.~~

- ~~• Law enforcement contact and coordination information.~~

~~Examples of such information may be posting 9 1 1 for emergency calls and providing substation safety and familiarization training for local and federal law enforcement, fire department, and Emergency Medical Services.~~

- ~~• A timeline for executing the physical security enhancements and modifications specified in the physical security plan.—~~

~~Entities have the flexibility to prioritize the implementation of the various resiliency or security enhancements and modifications in their security plan according to risk, resources, or other factors. The requirement to include a timeline in the physical security plan for executing the actual physical security enhancements and modifications does not also require that the enhancements and modifications be completed within 120 days. The actual timeline may extend beyond the 120 days, depending on the amount of work to be completed.~~

- ~~• Provisions to evaluate evolving physical threats, and their corresponding security measures, to the Applicable Transmission station(s), or Transmission substation(s), or primary control center(s). are those that meet any of the following criteria:~~

- ~~1. Transmission Facilities operated at 500 kV or higher. For the purpose of this criterion, the collector bus for a generation plant is not considered a Transmission Facility, but is part of the generation interconnection Facility.~~
- ~~2. Transmission Facilities that are operating between 200 kV and 499 kV at a single station or substation, where the station or substation is connected at 200 kV or higher voltages to three or more other Transmission stations or substations and has an "aggregate weighted~~

~~value" exceeding 3000 according to the table below. The "aggregate weighted value" for a single station or substation is determined by summing the "weight value per line" shown in the table below for each incoming and each outgoing BES Transmission Line that is connected to another Transmission station or substation. For the purpose of this criterion, the collector bus for a generation plant is not considered a Transmission Facility, but is part of the generation interconnection Facility.~~

~~A registered entity's physical security plan should include processes and responsibilities for obtaining and handling alerts, intelligence, and threat warnings from various sources. Some of these sources could include the ERO, ES-ISAC, and US and/or Canadian federal agencies. This information should be used to reevaluate or consider changes in the security plan and corresponding security measures of the security plan found in R5. Incremental changes made to the physical security plan prior to the next required third party review do not require additional third party reviews.~~

Voltage Value of a Line	Weight Value per Line
less than 200 kV (not applicable)	(not applicable)
200 kV to 299 kV	700
300 kV to 499 kV	1300
500 kV and above	N/A

Requirement R6

~~This requirement specifies review by an entity other than the Transmission Owner or Transmission Operator with appropriate expertise for the evaluation performed according to Requirement R4 and the security plan(s) developed according to Requirement R5. As with Requirement R2, the term unaffiliated means that the selected third party reviewer cannot be a corporate affiliate (i.e., the third party reviewer cannot be an entity that corporately controls, is controlled by or is under common control with, the Transmission Operator). A third party reviewer also cannot be a division of the Transmission Operator that operates as a functional unit.~~

~~As noted in the guidance for Requirement R2, the prohibition on registered entities using a corporate affiliate to conduct the review, however, does not prohibit a governmental entity from selecting as the third party reviewer another governmental entity within the same political subdivision. For instance, a city or municipality may use its local enforcement agency, so long as the local law enforcement agency satisfies the criteria in Requirement R6. The third party reviewer, however, must still be a third party and cannot be a division of the registered entity that operates as a functional unit.~~

~~The Responsible Entity can select from several possible entities to perform the review:~~

- ~~• An entity or organization with electric industry physical security experience and whose review staff has at least one member who holds either a Certified Protection Professional (CPP) or Physical Security Professional (PSP) certification.~~

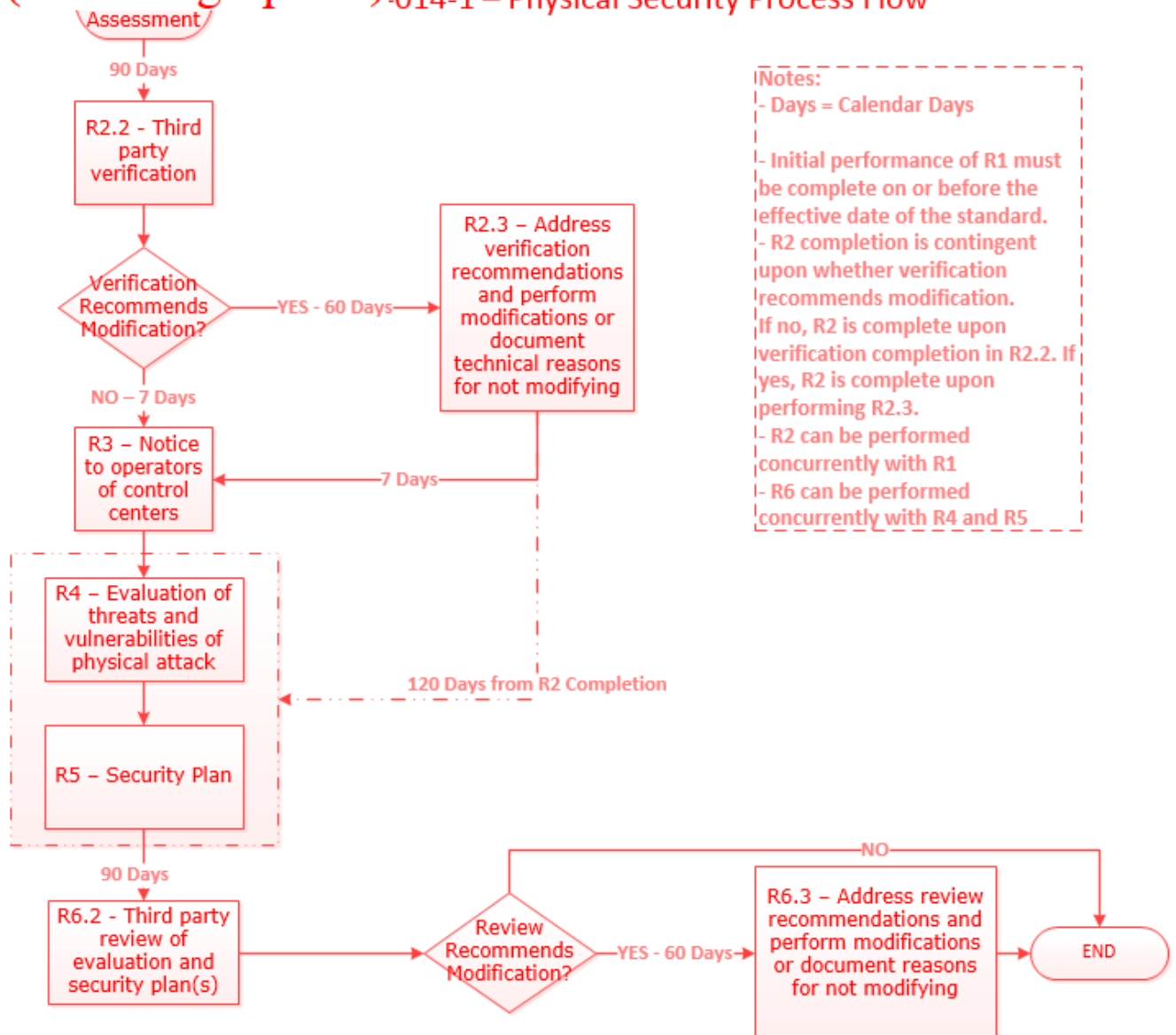
~~In selecting CPP and PSP for use in this standard, the SDT believed it was important that if a private entity such as a consulting or security firm was engaged to conduct the third party review, they must tangibly demonstrate competence to conduct the review. This includes electric industry physical security experience and either of the premier security industry certifications sponsored by ASIS International. The ASIS certification program was initiated in 1977, and those that hold the CPP certification are board certified in security management. Those that hold the PSP certification are board certified in physical security.~~

- ~~• An entity or organization approved by the ERO.~~
- ~~• A governmental agency with physical security expertise.~~
- ~~• An entity or organization with demonstrated law enforcement, government, or military physical security expertise.~~

~~As with the verification under Requirement R2, Requirement R6 provides that the “review may occur concurrently with or after completion of the evaluation performed under Requirement R4 and the security plan development under Requirement R5.” This provision is designed to provide applicable Transmission Owners and Transmission Operators the flexibility to work with the third party reviewer throughout (i.e., concurrent with) the evaluation performed according to Requirement R4 and the security plan(s) developed according to Requirement R5, which for some Responsible Entities may be more efficient and effective. In other words, a Transmission Owner or Transmission Operator could collaborate with their unaffiliated third party reviewer to perform an evaluation of potential threats and vulnerabilities (Requirement R4) and develop a security plan (Requirement R5) to satisfy Requirements R4 through R6 simultaneously. The intent of Requirement R6 is to have an entity other than the owner or operator of the facility to be involved in the Requirement R4 evaluation and the development of the Requirement R5 security plans and have an opportunity to provide input on the evaluation and the security plan. Accordingly, Requirement R6 is designed to allow entities the discretion to have a two-step process, where the Transmission Owner performs the evaluation and develops the security plan itself and then has a third party review that assessment, or a one-step process, where the entity collaborates with a third party to perform the evaluation and develop the security plan.~~

Timeline

(Deleted graphics).014-1 – Physical Security Process Flow



Rationale

~~During development of this standard, text boxes were embedded within the standard to explain the rationale for various parts of the standard. Upon BOT approval, the text from the rationale text boxes was moved to this section.~~

Rationale for Requirement R1:

~~This requirement meets the FERC directive from paragraph 6 of its March 7, 2014 order on physical security to perform a risk assessment to identify which facilities if rendered inoperable or damaged could impact an Interconnection through instability, uncontrolled separation, or cascading failures. The requirement is not intended to bring within the scope of the standard a Transmission station or Transmission substation unless the applicable Transmission Owner determines through technical studies and analyses based on objective analysis, technical expertise, operating experience and experienced judgment that the loss of such facility would have a critical impact on the operation of the Interconnection in the event the asset is rendered inoperable or damaged. In the November 20, 2014 Order, FERC reiterated that “only an instability that has a “critical impact on the operation of the interconnection” warrants finding that the facility causing the instability is critical under Requirement R1.” The Transmission Owner may determine the criteria for critical impact by considering, among other criteria, any of the following:~~

- ~~• Criteria or methodology used by Transmission Planners or Planning Coordinators in TPL-001-4, Requirement R6~~
- ~~• NERC EOP-004-2 reporting criteria~~
- ~~• Area or magnitude of potential impact~~

~~Requirement R1 also meets the FERC directive for periodic reevaluation of the risk assessment by requiring the risk assessment to be performed every 30 months (or 60 months for an entity that has not identified in a previous risk assessment any Transmission stations or Transmission substations that if rendered inoperable or damaged could result in instability, uncontrolled separation, or Cascading within an Interconnection).~~

~~After identifying each Transmission station and Transmission substation that meets the criteria in Requirement R1, it is important to additionally identify the primary control center that operationally controls that Transmission station or Transmission substation (i.e., the control center whose electronic actions can cause direct physical actions at the identified Transmission station and Transmission substation, such as opening a breaker, compared to a control center that only has the ability to monitor the Transmission station and Transmission substation and, therefore, must coordinate direct physical action through another entity).~~

Rationale for Requirement R2:

~~This requirement meets the FERC directive from paragraph 11 in the order on physical security~~

~~requiring verification by an entity other than the owner or operator of the risk assessment performed under Requirement R1.~~

~~This requirement provides the flexibility for a Transmission Owner to select registered and non-registered entities with transmission planning or analysis experience to perform the verification of the Requirement R1 risk assessment. The term “unaffiliated” means that the selected verifying entity cannot be a corporate affiliate (i.e., the verifying entity cannot be an entity that controls, is controlled by, or is under common control with, the Transmission owner). The verifying entity also cannot be a division of the Transmission Owner that operates as a functional unit. The term “unaffiliated” is not intended to prohibit a governmental entity from using another government entity to be a verifier under Requirement R2.~~

~~Requirement R2 also provides the Transmission Owner the flexibility to work with the verifying entity throughout the Requirement R1 risk assessment, which for some Transmission Owners may be more efficient and effective. In other words, a Transmission Owner could coordinate with their unaffiliated verifying entity to perform a Requirement R1 risk assessment to satisfy both Requirement R1 and Requirement R2 concurrently.~~

~~Planning Coordinator is a functional entity listed in Part 2.1. The Planning Coordinator and Planning Authority are the same entity as shown in the NERC Glossary of Terms Used in NERC Reliability Standards.~~

Rationale for Requirement R3:

~~Some Transmission Operators will have obligations under this standard for certain primary control centers. Those obligations, however, are contingent upon a Transmission Owner first identifying which Transmission stations and Transmission substations meet the criteria specified by Requirement R1, as verified according to Requirement R2. This requirement is intended to ensure that a Transmission Operator that has operational control of a primary control center identified in Requirement R1, Part 1.2 of a Transmission station or Transmission substation verified according to Requirement R2 receives notice of such identification so that the Transmission Operator may timely fulfill its resulting obligations under Requirements R4 through R6. Since the timing obligations in Requirements R4 through R6 are based upon completion of Requirement R2, the Transmission Owner must also include notice of the date of completion of Requirement R2. Similarly, the Transmission Owner must notify the Transmission Operator of any removals from identification that result from a subsequent risk assessment under Requirement R1 or the verification process under Requirement R2.~~

Rationale for Requirement R4:

~~This requirement meets the FERC directive from paragraph 8 in the order on physical security that the reliability standard must require tailored evaluation of potential threats and vulnerabilities to facilities identified in Requirement R1 and verified according to Requirement R2. Threats and vulnerabilities may vary from facility to facility based on factors such as the facility’s location, size, function, existing protections, and attractiveness of the target. As such,~~

~~the requirement does not mandate a one-size-fits-all approach but requires entities to account for the unique characteristics of their facilities.~~

~~Requirement R4 does not explicitly state when the evaluation of threats and vulnerabilities must occur or be completed. However, Requirement R5 requires that the entity's security plan(s), which is dependent on the Requirement R4 evaluation, must be completed within 120 calendar days following completion of Requirement R2. Thus, an entity has the flexibility when to complete the Requirement R4 evaluation, provided that it is completed in time to comply with the requirement in Requirement R5 to develop a physical security plan 120 calendar days following completion of Requirement R2.~~

Rationale for Requirement R5:

~~This requirement meets the FERC directive from paragraph 9 in the order on physical security requiring the development and implementation of a security plan(s) designed to protect against attacks to the facilities identified in Requirement R1 based on the assessment performed under Requirement R4.~~

Rationale for Requirement R6:

~~This requirement meets the FERC directive from paragraph 11 in the order on physical security requiring review by an entity other than the owner or operator with appropriate expertise of the evaluation performed according to Requirement R4 and the security plan(s) developed according to Requirement R5.~~

~~As with the verification required by Requirement R2, Requirement R6 provides Transmission Owners and Transmission Operators the flexibility to work with the third-party reviewer throughout the Requirement R4 evaluation and the development of the Requirement R5 security plan(s). This would allow entities to satisfy their obligations under Requirement R6 concurrent with the satisfaction of their obligations under Requirements R4 and R5.~~

- ~~3. Transmission Facilities at a single station or substation location that are identified by its Reliability Coordinator, Planning Coordinator, or Transmission Planner as critical to the derivation of Interconnection Reliability Operating Limits (IROLs) and their associated contingencies.~~
- ~~4. Transmission Facilities identified as essential to meeting Nuclear Plant Interface Requirements (NPIRs).~~

Attachment 1 – Applicability Criteria

Applicable Transmission station(s) or Transmission substation(s) are those that meet any of the following criteria:

1. Transmission Facilities operated at 500 kV or higher. For the purpose of this criterion, the collector bus for a generation plant is not considered a Transmission Facility, but is part of the generation interconnection Facility.
2. Transmission Facilities that are operating between 200 kV and 499 kV at a single station or substation, where the station or substation is connected at 200 kV or higher voltages to three or more other Transmission stations or substations and has an "aggregate weighted value" exceeding 3000 according to the table below. The "aggregate weighted value" for a single station or substation is determined by summing the "weight value per line" shown in the table below for each incoming and each outgoing BES Transmission Line that is connected to another Transmission station or substation. For the purpose of this criterion, the collector bus for a generation plant is not considered a Transmission Facility, but is part of the generation interconnection Facility.

<u>Voltage Value of a Line</u>	<u>Weight Value per Line</u>
<u>less than 200 kV (not applicable)</u>	<u>(not applicable)</u>
<u>200 kV to 299 kV</u>	<u>700</u>
<u>300 kV to 499 kV</u>	<u>1300</u>
<u>500 kV and above</u>	<u>N/A</u>

3. Transmission Facilities at a single station or substation location that are identified by its Reliability Coordinator, Planning Coordinator, or Transmission Planner as critical to the derivation of Interconnection Reliability Operating Limits (IROLs) and their associated contingencies.
4. Transmission Facilities identified as essential to meeting Nuclear Plant Interface Requirements (NPIRs).