

Periodic Review of EOP-005-2 – System Restoration from Blackstart Resources

Project 2015-02 Emergency Operations Periodic Review

Introduction

NERC is required to conduct a periodic review of each NERC Reliability Standard at least once every ten years, or once every five years for Reliability Standards approved by the American National Standards Institute as an American National Standard. The Reliability Standard identified below has been included in the current cycle of periodic reviews. The Review Team is instructed to use the background information and the questions below, along with any associated worksheets or reference documents, to guide a comprehensive review that results in a recommendation that the Reliability Standard should be: (1) reaffirmed as is (i.e., no changes needed); (2) revised (which may include revising or retiring one or more requirements); or (3) retired. If the Review Team recommends a revision to the Reliability Standard, it must also develop a draft Standard Authorization Request (SAR) outlining the proposed scope and technical justification for the revision.

A completed Periodic Review Template and any associated documentation should be submitted by email to the NERC Standards Developer assigned to the project.

Applicable Reliability Standard: EOP-005-2 – System Restoration from Blackstart Resources

Review Team Members (include name and organization):

- 1. David McRee (Chair), Duke Energy
- 2. Connie Lowe (Vice Chair), Dominion Resources Services, Inc.
- 3. Mark Atkins, VELCO
- 4. Matthew Beilfuss, We Energies
- 5. Richard Cobb, MISO
- 6. Bobby Crump, Luminant Generation Company
- 7. Charles Jen, CenterPoint Energy Houston Electric
- 8. David Mahlmann, New York ISO
- 9. Robert Staton, Xcel Energy

NERC standard developers: Laura Anderson and Steve Crutchfield

Date Review Completed: March 24, 2015

¹ NERC Standard Processes Manual 45 (2013), posted at http://www.nerc.com/pa/Stand/Documents/Appendix 3A StandardsProcessesManual.pdf.



Background Information (to be completed initially by NERC staff) 1. Are there any outstanding Federal Energy Regulatory Commission directives associated with the Reliability Standard? (If so, NERC staff will attach a list of the directives with citations to associated FERC orders for inclusion in a SAR.) Yes ⊠ No 2. Have stakeholders requested clarity on the Reliability Standard in the form of an Interpretation (outstanding, in progress, or approved), Compliance Application Notice (CAN) (outstanding, in progress, or approved), or an outstanding submission to NERC's Issues Database? (If there are, NERC staff will include a list of the Interpretation(s), CAN(s), or stakeholder-identified issue(s) contained in the NERC Issues Database that apply to the Reliability Standard.) Yes ⊠ No 3. Is the Reliability Standard one of the most violated Reliability Standards? If so, does the root cause of the frequent violation appear to be a lack of clarity in the language? Yes No. Please explain: 4. Does the Reliability Standard need to be modified or converted to the results-based standard (RBS) format as outlined in Attachment 1: Results-Based Standards? Note that this analysis is two-fold and requires collaboration among NERC staff and the Review Team. First, does the substance of the Reliability Standard comport to the RBS principles described in Attachment 1? Second, does the formatting of the Reliability Standard need to be changed to comply with the RBS format used for new and revised Reliability Standards? If the answer to either part of this question is "Yes," the standard should be revised. In the comment field, please indicate what kind of revision will be necessary.

X Yes

No



Please explain: EOP-005-2 – System Restoration from Blackstart Resources needs to be converted to the results-based standard (RBS) format as outlined in *Attachment 1: Results-Based Standards*.

Questions for the Subject Matter Expert (SME) Review Team

If NERC staff answered "Yes" to any of the questions above, the Reliability Standard probably requires revision. The questions below are intended to further guide the SME review. Some of the questions reference documents provided by NERC staff as indicated in the Background questions above.

1.	Paragraph 81 : Does one or more of the requirements in the Reliability Standard meet criteria for retirement or modification based on Paragraph 81 concepts? Use <i>Attachment 2: Paragraph 81 Criteria</i> to make this determination.
	∑ Yes ☐ No

Please summarize your application of Paragraph 81 Criteria, if any:

Requirement R10: The EOP Periodic Review Team (PRT) recommends retirement of Requirement R10, and all of its subparts (requirement parts), as duplicative of proposed PER-005-2. The four identified tasks identified in Requirement R10, reviewed every year, provide for elements of the training; per P81 Criteria B7² this is redundant.

The EOP PRT does not recommend retirement of the following requirements identified in the Independent Expert Review Project (IERP):

- IERP: Requirement R7 The EOP PRT discussed the following possible scenario: if a Disturbance occurs and the TOP does nothing Requirement R7 requires the TOP to implement the plan. The EOP PRT recommends that the future SDT consider revising Requirement R7 for consistency by using already-approved industry terminology, "Develop, maintain and implement," from Standards such as proposed EOP-011-1 and EOP-010-1 to replace the strict implementation requirement.
- IERP: The IERP determined Requirement R8 to be duplicative with EOP-005-2 Requirement 1.3. The EOP PRT does not find Requirement R8 to be duplicative with EOP-005-2 Requirement R1.3. EOP-005-2 R1.3 is a requirement that requires the following: (a) the TOP plan requires Reliability Coordinator approval for resynchronizing, and (b) that when the event occurs, that portion of the plan be adhered to. The EOP PRT recommends that the future SDT consider

² NERC Periodic Review Template: Attachment 2: Paragraph 81 Criteria



revising Requirement R7 for consistency by using already-approved industry terminology, "Develop, maintain and implement," from Standards, such as proposed EOP-011-1 and EOP-010-1. This language captures the implementation aspect of Requirement R8, and adds the requirement for Reliability Coordinator approval of the plan, as required under Requirement R1.3.

- IERP: The IERP determined Requirement R12 to be duplicative with PER-005-1 Requirement R3. The EOP PRT does not recommend retirement of EOP-005-2 Requirement R12. Requirement R12 is not a training requirement, it is a testing requirement ("drill, exercise, or simulation"), which determines the necessity for personnel training under PER-005-1 Requirement R3.
- 2. **Clarity:** If the Reliability Standard has an Interpretation, CAN, or issue associated with it, or is frequently violated because of ambiguity, it probably needs to be revised for clarity. Beyond these indicators, is there any reason to believe that the Reliability Standard should be modified to address a lack of clarity? Consider:
 - a. Is this a Version 0 Reliability Standard?
 - b. Does the Reliability Standard have obviously ambiguous language or language that requires performance that is not measurable?
 - c. Are the requirements consistent with the purpose of the Reliability Standard?
 Yes
 No
 - a. The EOP PRT recommends Requirement R4 be reviewed for clarity regarding the application of when the 90 calendar days applies and update the associated Measure, if applicable.
 - b. The EOP PRT recommends that the future SDT look at Requirement R5 and its associated Measure for consideration of the use of "Implementation Date" versus "Effective Date" or "Approval Date" and consider if the plan should contain the specific term "Implementation Date."
 - c. The EOP PRT recommends that the future SDT reword Measure M5 for clarity:
 - **M5.** Each Transmission Operator shall have documentation that it has made the latest Reliability Coordinator approved copy of its restoration plan, in electronic or hardcopy format, available in its primary and backup control rooms and its System Operators prior to its implementation date in accordance with Requirement R5.



- d. The EOP PRT recommends that the future SDT review the use of the terms "plans" and "procedures" used throughout the standard for consistency.
- e. The EOP PRT recommends the future SDT add a Rationale Box to clarify Requirement R6 and the use of the phrase "dynamic simulations". In addition, the EOP PRT recommends that the future SDT verify that the RSAW is appropriate to capture the intent of the requirement.
 - **R6.** Each Transmission Operator shall verify through analysis of actual events, steady state and dynamic simulations, or testing that its restoration plan accomplishes its intended function. This shall be completed every five years at a minimum. Such analysis, simulations or testing shall verify: [Violation Risk Factor = Medium] [Time Horizon = Long-term Planning]

Proposed Rationale Box: Dynamic simulations should simulate your frequency and voltage response beyond the transient period of time. It is the intent of the (future) EOP SDT that the simulation provides for the feedback of the System performance as generation and Load are added.

- f. The EOP PRT recommends that the future SDT review the language of Requirement R7 for clarity, and update the associated Measure:
 - **R7.** Following a Disturbance in which one or more areas of the BES shuts down and the use of Blackstart Resources the restoration plan, pursuant to Requirement R1, is required to restore the shut down area to service, each affected Transmission Operator shall implement its restoration plan. If the restoration plan cannot be executed as expected the Transmission Operator shall utilize its restoration strategies to facilitate restoration. [Violation Risk Factor = High] [Time Horizon = Real-time Operations]
- g. The EOP PRT recommends the future SDT review the language of Requirement R8 for clarity, and update the associated Measure:
 - **R8:** Following a Disturbance in which one or more areas of the BES shuts down and the use of Blackstart Resources the restoration plan, pursuant to Requirement R1, is required to restore the shut down area to service, the Transmission Operator shall resynchronize area(s) with neighboring Transmission Operator area(s) only with the authorization of the Reliability Coordinator or in accordance with the established procedures of the Reliability Coordinator. [Violation Risk Factor = High] [Time Horizon = Real-time Operations]
- h. The EOP PRT recommends a review of the associated Reliability Standard Audit Worksheet (RSAW), in collaboration with NERC Compliance Assurance, to ensure any changes to the Standard are captured.



- i. The EOP PRT recommends that the future SDT review EOP-005-2 for grammar, punctuation, and syntax edit revisions.
- j. The EOP PRT has reviewed the Federal Energy Regulatory Commission (Commission) request to review in EOP-005, System Restoration, Commission Order 749, Paragraphs 24 and 18:

Paragraph 18

"Requirement R11 of EOP-005-2 requires that a minimum of two hours of system restoration training be provided every two years to field switching personnel performing "unique tasks" associated with the transmission operator's restoration plan. In the NOPR, the Commission expressed concern that the applicable entities may not understand what the term "unique tasks" means. We requested comment on what is intended by that term and on whether guidance should be provided to the transmission operators, transmission owners, and distribution providers who are responsible for providing training. In addition, the NOPR sought comment as to whether the unique tasks should be identified in each transmission operator's restoration plan."

Paragraph 24

"Both EEI and APPA recognize potential benefit in the development of further guidance as to the term "unique tasks," and BPA is uncertain as to the meaning of the term and consequently unsure as to how to demonstrate compliance with its training obligation. NERC, in its comments about the term, states that it "could promote the development of a guideline to aid registered entities in complying with Requirement R11." The Commission notes that this Reliability Standard will not become effective for at least 24 months, during which time ambiguities in language or differences of opinion among affected entities may be resolved in practical ways. Once the Standard is effective, if industry determines that ambiguity with the term arises, it would be appropriate for NERC to consider its proposal to develop a guideline to aid entities in their compliance obligations."

The EOP PRT is not aware of any industry confusion regarding the application of "unique tasks." The EOP PRT recommends that the future SDT review any reported industry confusion regarding the application of "unique tasks" that may be reported subsequent to the close of the Periodic Review of Emergency Operations, Project 2015-02.

3.	Definitions : Do any of the defined terms used within the Reliability Standard need to be refined?
	Yes
	⊠No



	Please explain:
4.	Compliance Elements: Are the compliance elements associated with the requirements (Measures, Data Retention, Violation Risk Factors (VRF), and Violation Severity Levels (VSL)) consistent with the direction of the Reliability Assurance Initiative and FERC and NERC guidelines? If you answered "No," please identify which elements require revision, and why:
	Yes
	No
	P-005-2 – Section 1.4, Evidence Retention: Recommend the future drafting team review the idence retention periods.
5.	Consistency with Other Reliability Standards: Does the Reliability Standard need to be revised for formatting and language consistency among requirements within the Reliability Standard or consistency with other Reliability Standards? If you answered "Yes," please describe the changes needed to achieve formatting and language consistency:
	☐ Yes ☑ No
6.	Changes in Technology, System Conditions, or other Factors: Does the Reliability Standard need to be revised to account for changes in technology, system conditions, or other factors? If you answered "Yes," please describe the changes and specifically what the potential impact is to reliability if the Reliability Standard is not revised:
	☐ Yes ☑ No
7.	Consideration of Generator Interconnection Facilities: Is responsibility for generator interconnection Facilities appropriately accounted for in the Reliability Standard?
	∑ Yes ☐ No
	Guiding Questions:



If the Reliability Standard is applicable to GOs/GOPs, is there any ambiguity about the inclusion of generator interconnection Facilities? (If generation interconnection Facilities could be perceived to be excluded, specific language referencing the Facilities should be introduced in the Reliability Standard.)

If the Reliability Standard is not applicable to GOs/GOPs, is there a reliability-related need for treating generator interconnection Facilities as transmission lines for the purposes of this Reliability Standard? (If so, GOs and GOPs that own or operate relevant generator interconnection Facilities should be explicit in the applicability section of the Reliability Standard.)



Recommendation

The answers to the questions above, along with a preliminary recommendation of the Review Team, will be posted for a 45-day comment period, and the comments will be publicly posted. The Review Team will review the comments to evaluate whether to modify the initial recommendation, and will document the final recommendation, which will be presented to the Standards Committee.

Preliminary Recommendation (to be completed by the Review Team after its review and prior to posting the results of the review for industry comment):		
REAFFIRM		
□ REVISE		
RETIRE - Requirement R10: The EOP PRT recommends retirement of Requirement R10, and all of its subparts (requirement parts), as duplicative of Proposed PER-005-2. The four identified tasks identified in Requirement R10, reviewed every year, provides for elements of the training; per P81 Criterion B7 – redundant.		
Technical Justification (If the Review Team recommends that the Reliability Standard be revised, a draft SAR may be included and the technical justification included in the SAR): Please see above for the technical justification for revising this standard.		
Preliminary Recommendation posted for industry comment (date): March 27, 2015		
Final Recommendation (to be completed by the Review Team after it has reviewed industry comments on the preliminary recommendation):		
REAFFIRM (This should only be checked if there are no outstanding directives, interpretations or issues identified by stakeholders.)		
REVISE		
RETIRE		
Technical Justification (If the Review Team recommends that the Reliability Standard be revised, a draft SAR may be included and the technical justification included in the SAR):		
Date submitted to NERC Staff:		



Attachment 1: Results-Based Standards

The fourth question for NERC staff and the Review Team asks if the Reliability Standard needs to be converted to the results-based standards (RBS) format. The information below will be used by NERC staff and the Review Team in making this determination.

Transitioning the current body of standards into a clear and concise body of world-class standards will require a comprehensive application of the RBS concept. RBS concepts employ a defense-in-depth strategy for Reliability Standards development where each requirement has a role in preventing system failures, and the roles are complementary and reinforcing. Reliability Standards should be viewed as a portfolio of requirements designed to achieve an overall defense-in-depth strategy and comply with the quality objectives identified in the resource document titled, "Acceptance Criteria of a Reliability Standard."

Accordingly, the Review Team shall consider whether the Reliability Standard contains results-based requirements with sufficient clarity to hold entities accountable without being overly prescriptive as to how a specific reliability outcome is to be achieved. The RBS concept, properly applied, addresses the clarity and effectiveness aspects of a standard.

A Reliability Standard that adheres to the RBS format should strive to achieve a portfolio of performance-, risk-, and competency-based mandatory reliability requirements that support an effective defense-in-depth strategy. Each requirement should identify a clear and measurable expected outcome, such as: a) a stated level of reliability performance, b) a reduction in a specified reliability risk, or c) a necessary competency.

- a. **Performance-Based**—defines a particular reliability objective or outcome to be achieved. In its simplest form, a results-based requirement has four components: who, under what conditions (if any), shall perform what action, to achieve what particular result or outcome?
- b. **Risk-Based**—preventive requirements to reduce the risks of failure to acceptable tolerance levels. A risk-based reliability requirement should be framed as: who, under what conditions (if any), shall perform what action, to achieve what particular result or outcome that reduces a stated risk to the reliability of the bulk power system?
- c. **Competency-Based**—defines a minimum set of capabilities an entity needs to have to demonstrate it is able to perform its designated reliability functions. A competency-based reliability requirement should be framed as: who, under what conditions (if any), shall have what capability, to achieve what particular result or outcome to perform an action to achieve a result or outcome or to reduce a risk to the reliability of the bulk power system?



Additionally, each RBS-adherent Reliability Standard should enable or support one or more of the eight reliability principles listed below. Each Reliability Standard should also be consistent with all of the reliability principles.

- 1. Interconnected bulk power systems shall be planned and operated in a coordinated manner to perform reliably under normal and abnormal conditions as defined in the NERC Standards.
- 2. The frequency and voltage of interconnected bulk power systems shall be controlled within defined limits through the balancing of real and reactive power supply and demand.
- 3. Information necessary for the planning and operation of interconnected bulk power systems shall be made available to those entities responsible for planning and operating the systems reliably.
- 4. Plans for emergency operation and system restoration of interconnected bulk power systems shall be developed, coordinated, maintained, and implemented.
- 5. Facilities for communication, monitoring, and control shall be provided, used, and maintained for the reliability of interconnected bulk power systems.
- 6. Personnel responsible for planning and operating interconnected bulk power systems shall be trained, qualified, and have the responsibility and authority to implement actions.
- 7. The reliability of the interconnected bulk power systems shall be assessed, monitored, and maintained on a wide-area basis.
- 8. Bulk power systems shall be protected from malicious physical or cyber attacks.

If the Reliability Standard does not provide for a portfolio of performance-, risk-, and competency-based requirements or consistency with NERC's reliability principles, NERC staff and the Review Team should recommend that the Reliability Standard be revised or reformatted in accordance with the RBS format.



Attachment 2: Paragraph 81 Criteria

The first question for the Review Team asks if one or more of the requirements in the Reliability Standard meet(s) criteria for retirement or modification based on Paragraph 81 concepts.³ Use the Paragraph 81 criteria explained below to make this determination. Document the justification for the decisions throughout and provide them in the final assessment in the Periodic Review Template.

For a Reliability Standard requirement to be proposed for retirement or modification based on Paragraph 81 concepts, it must satisfy **both**: (i) Criterion A (the overarching criterion); and (ii) at least one of the Criteria B listed below (identifying criteria). In addition, for each Reliability Standard requirement proposed for retirement or modification, the data and reference points set forth below in Criteria C should be considered for making a more informed decision.

Criterion A (Overarching Criterion)

The Reliability Standard requirement requires responsible entities ("entities") to conduct an activity or task that does little, if anything, to benefit or protect the reliable operation of the BES.

Section 215(a) (4) of the United States Federal Power Act defines "reliable operation" as: "... operating the elements of the bulk power system within equipment and electric system thermal, voltage, and stability limits so that instability, uncontrolled separation, or cascading failures of such system will not occur as a result of a sudden disturbance, including a cybersecurity incident, or unanticipated failure of system elements."

Criteria B (Identifying Criteria)

B1. Administrative

The Reliability Standard requirement requires responsible entities to perform a function that is administrative in nature, does not support reliability and is needlessly burdensome.

This criterion is designed to identify requirements that can be retired or modified with little effect on reliability and whose retirement or modification will result in an increase in the efficiency of the ERO compliance program. Administrative functions may include a task that is related to developing procedures or plans, such as establishing communication contacts. Thus, for certain requirements, Criterion B1 is closely related to Criteria B2, B3 and B4. Strictly administrative functions do not inherently negatively impact reliability directly and, where possible, should be eliminated or modified for purposes of efficiency and to allow the ERO and entities to appropriately allocate resources.

³ In most cases, satisfaction of the Paragraph 81 criteria will result in the retirement of a requirement. In some cases, however, there may be a way to modify a requirement so that it no longer satisfies Paragraph 81 criteria. Recognizing that, this document refers to both options.



B2. Data Collection/Data Retention

These are requirements that obligate responsible entities to produce and retain data which document prior events or activities, and should be collected via some other method under NERC's rules and processes.

This criterion is designed to identify requirements that can be retired or modified with little effect on reliability. The collection and/or retention of data do not necessarily have a reliability benefit and yet are often required to demonstrate compliance. Where data collection and/or data retention is unnecessary for reliability purposes, such requirements should be retired or modified in order to increase the efficiency of the ERO compliance program.

B3. Documentation

The Reliability Standard requirement requires responsible entities to develop a document (e.g., plan, policy or procedure) which is not necessary to protect reliability of the bulk power system.

This criterion is designed to identify requirements that require the development of a document that is unrelated to reliability or has no performance or results-based function. In other words, the document is required, but no execution of a reliability activity or task is associated with or required by the document.

B4. Reporting

The Reliability Standard requirement obligates responsible entities to report to a Regional Entity, NERC or another party or entity. These are requirements that obligate responsible entities to report to a Regional Entity on activities which have no discernible impact on promoting the reliable operation of the BES and if the entity failed to meet this requirement there would be little reliability impact.

B5. Periodic Updates

The Reliability Standard requirement requires responsible entities to periodically update (e.g., annually) documentation, such as a plan, procedure or policy without an operational benefit to reliability.

This criterion is designed to identify requirements that impose an updating requirement that is out of sync with the actual operations of the BES, unnecessary, or duplicative.

B6. Commercial or Business Practice

The Reliability Standard requirement is a commercial or business practice, or implicates commercial rather than reliability issues.



This criterion is designed to identify those requirements that require: (i) implementing a best or outdated business practice or (ii) implicating the exchange of or debate on commercially sensitive information while doing little, if anything, to promote the reliable operation of the BES.

B7. Redundant

The Reliability Standard requirement is redundant with: (i) another FERC-approved Reliability Standard requirement(s); (ii) the ERO compliance and monitoring program; or (iii) a governmental regulation (e.g., Open Access Transmission Tariff, North American Energy Standards Board ("NAESB"), etc.).

This criterion is designed to identify requirements that are redundant with other requirements and are, therefore, unnecessary. Unlike the other criteria listed in Criterion B, in the case of redundancy, the task or activity itself may contribute to a reliable BES, but it is not necessary to have two duplicative requirements on the same or similar task or activity. Such requirements can be retired or modified with little or no effect on reliability and removal will result in an increase in efficiency of the ERO compliance program.

Criteria C (Additional data and reference points)

Use the following data and reference points to assist in the determination of (and justification for) whether to proceed with retirement or modification of a Reliability Standard requirement that satisfies both Criteria A and B:

C1. Was the Reliability Standard requirement part of a FFT filing?

The application of this criterion involves determining whether the requirement was included in a FFT filing.

C2. Is the Reliability Standard requirement being reviewed in an ongoing Standards Development Project?

The application of this criterion involves determining whether the requirement proposed for retirement or modification is part of an active Standards Development Project, with consideration for the status of the project. If the requirement has been approved by Registered Ballot Body and is scheduled to be presented to the NERC Board of Trustees, in most cases it will not need to be addressed in the periodic review. The exception would be a requirement, such as the Critical Information Protection (CIP) requirements for Version 3 and 4, that is not due to be retired for an extended period of time. Also, for informational purposes, whether the requirement is included in a future or pending Standards Development Project should be identified and discussed.

C3. What is the VRF of the Reliability Standard requirement?

The application of this criterion involves identifying the VRF of the requirement proposed for retirement or modification, with particular consideration of any requirement that has been assigned as having a Medium or High VRF. Also, the fact that a requirement has a Lower VRF is not dispositive that



it qualifies for retirement or modification. In this regard, Criterion C3 is considered in light of Criterion C5 (Reliability Principles) and C6 (Defense in Depth) to ensure that no reliability gap would be created by the retirement or modification of the Lower VRF requirement. For example, no requirement, including a Lower VRF requirement, should be retired or modified if doing so would harm the effectiveness of a larger scheme of requirements that are purposely designed to protect the reliable operation of the BES.

C4. In which tier of the most recent Actively Monitored List (AML) does the Reliability Standard requirement fall?

The application of this criterion involves identifying whether the requirement proposed for retirement or modification is on the most recent AML, with particular consideration for any requirement in the first tier of the AML.

C5. Is there a possible negative impact on NERC's published and posted reliability principles? The application of this criterion involves consideration of the eight following reliability principles published on the NERC webpage.

Reliability Principles

NERC Reliability Standards are based on certain reliability principles that define the foundation of reliability for North American bulk power systems. Each reliability standard shall enable or support one or more of the reliability principles, thereby ensuring that each standard serves a purpose in support of reliability of the North American bulk power systems. Each reliability standard shall also be consistent with all of the reliability principles, thereby ensuring that no standard undermines reliability through an unintended consequence.

Principle 1. Interconnected bulk power systems shall be planned and operated in a coordinated manner to perform reliably under normal and abnormal conditions as defined in the NERC Standards.

Principle 2. The frequency and voltage of interconnected bulk power systems shall be controlled within defined limits through the balancing of real and reactive power supply and demand.

Principle 3. Information necessary for the planning and operation of interconnected bulk power systems shall be made available to those entities responsible for planning and operating the systems reliably.

Principle 4. Plans for emergency operation and system restoration of interconnected bulk power systems shall be developed, coordinated, maintained, and implemented.



Principle 5. Facilities for communication, monitoring, and control shall be provided, used, and maintained for the reliability of interconnected bulk power systems.

Principle 6. Personnel responsible for planning and operating interconnected bulk power systems shall be trained, qualified, and have the responsibility and authority to implement actions.

Principle 7. The reliability of the interconnected bulk power systems shall be assessed, monitored, and maintained on a wide-area basis.

Principle 8. Bulk power systems shall be protected from malicious physical or cyber attacks. (footnote omitted).

C6. Is there any negative impact on the defense in depth protection of the BES?

The application of this criterion considers whether the requirement proposed for retirement or modification is part of a defense in depth protection strategy. In order words, the assessment is to verify whether other requirements rely on the requirement proposed for retirement or modification to protect the BES.

C7. Does the retirement or modification promote results or performance based Reliability Standards?

The application of this criterion considers whether the requirement, if retired or modified, will promote the initiative to implement results- and/or performance-based Reliability Standards.