

Project 2007-2 – Operating Personnel Communications Protocol

VRF and VSL Justifications

This document provides the drafting team's justification for assignment of violation risk factors (VRFs) and violation severity levels (VSLs) for each requirement in COM 003-1 Operating Personnel Communications Protocols.

Each primary requirement is assigned a VRF and a set of one or more VSLs. These elements support the determination of an initial value range for the Base Penalty Amount regarding violations of requirements in FERC-approved Reliability Standards, as defined in the ERO Sanction Guidelines.

The Operations Personnel Communications Protocol Standard Drafting Team applied the following NERC criteria and FERC Guidelines when proposing VRFs and VSLs for the requirements under this project:

NERC Criteria - Violation Risk Factors

High Risk Requirement

A requirement that, if violated, could directly cause or contribute to bulk electric system instability, separation, or a cascading sequence of failures, or could place the bulk electric system at an unacceptable risk of instability, separation, or cascading failures; or, a requirement in a planning time frame that, if violated, could, under emergency, abnormal, or restorative conditions anticipated by the preparations, directly cause or contribute to bulk electric system instability, separation, or a

cascading sequence of failures, or could place the bulk electric system at an unacceptable risk of instability, separation, or cascading failures, or could hinder restoration to a normal condition.

Medium Risk Requirement

A requirement that, if violated, could directly affect the electrical state or the capability of the bulk electric system, or the ability to effectively monitor and control the bulk electric system. However, violation of a medium risk requirement is unlikely to lead to bulk electric system instability, separation, or cascading failures; or, a requirement in a planning time frame that, if violated, could, under emergency, abnormal, or restorative conditions anticipated by the preparations, directly and adversely affect the electrical state or capability of the bulk electric system, or the ability to effectively monitor, control, or restore the bulk electric system. However, violation of a medium risk requirement is unlikely, under emergency, abnormal, or restoration conditions anticipated by the preparations, to lead to bulk electric system instability, separation, or cascading failures, nor to hinder restoration to a normal condition.

Lower Risk Requirement

A requirement that is administrative in nature and a requirement that, if violated, would not be expected to adversely affect the electrical state or capability of the bulk electric system, or the ability to effectively monitor and control the bulk electric system; or, a requirement that is administrative in nature and a requirement in a planning time frame that, if violated, would not, under the emergency, abnormal, or restorative conditions anticipated by the preparations, be expected to adversely affect the electrical state or capability of the bulk electric system, or the ability to effectively monitor, control, or restore the bulk electric system. A planning requirement that is administrative in nature.

FERC Violation Risk Factor Guidelines

Guideline (1) — Consistency with the Conclusions of the Final Blackout Report

The Commission seeks to ensure that Violation Risk Factors assigned to Requirements of Reliability Standards in these identified areas appropriately reflect their historical critical impact on the reliability of the Bulk-Power System.

In the VSL Order, FERC listed critical areas (from the Final Blackout Report) where violations could severely affect the reliability of the Bulk-Power System:

- Emergency operations
- Vegetation management
- Operator personnel training
- Protection systems and their coordination
- Operating tools and backup facilities
- Reactive power and voltage control
- System modeling and data exchange
- Communication protocol and facilities
- Requirements to determine equipment ratings
- Synchronized data recorders
- Clearer criteria for operationally critical facilities
- Appropriate use of transmission loading relief

Guideline (2) — Consistency within a Reliability Standard

The Commission expects a rational connection between the sub-Requirement Violation Risk Factor assignments and the main Requirement Violation Risk Factor assignment.

Guideline (3) — Consistency among Reliability Standards

The Commission expects the assignment of Violation Risk Factors corresponding to Requirements that address similar reliability goals in different Reliability Standards would be treated comparably.

Guideline (4) — Consistency with NERC's Definition of the Violation Risk Factor Level

Guideline (4) was developed to evaluate whether the assignment of a particular Violation Risk Factor level conforms to NERC's definition of that risk level.

Guideline (5) — Treatment of Requirements that Co-mingle More Than One Obligation

Where a single Requirement co-mingles a higher risk reliability objective and a lesser risk reliability objective, the VRF assignment for such Requirements must not be watered down to reflect the lower risk level associated with the less important objective of the Reliability Standard.

The following discussion addresses how the SDT considered FERC's VRF Guidelines 2 through 5. The team did not address Guideline 1 directly because of an apparent conflict between Guidelines 1 and 4. Whereas Guideline 1 identifies a list of topics that encompass nearly all topics within NERC's Reliability Standards and implies that these requirements should be assigned a "High" VRF, Guideline 4 directs assignment of VRFs based on the impact of a specific requirement to the reliability of the system. The SDT believes that Guideline 4 is reflective of the intent of VRFs in the first instance and therefore concentrated its approach on the reliability impact of the requirements.

VRF for COM-003-1:

There are ~~four~~ three requirements in COM-003-1, draft 5-6 with the addition-deletion of ~~R3 and R4~~ (draft 5). Requirements ~~R1 and R3~~ is are assigned a "Low" VRF. ~~R1 and R3~~ now reads: "*Each in each Reliability Coordinator area, shall develop, subject to the Reliability Coordinator's approval, documented communication protocols for the issuance of Operating Instructions in that Reliability Coordinator's area. shall develop and implement documented communication protocols that outline the communications expectations of its operators. The documented communication protocols will address, where applicable, the following: ". Requirements R2 and ~~R4~~ R3 are assigned a "Medium" VRF. ~~and t~~ The language change to R2 and R4, which now reads: "*Each shall implement its communication protocols developed in Requirement R1 so that the failure to use the protocols by the issuer of an Operating Instruction does not result in an operating condition that requires the issuance of a Reliability Directive by the original issuer of the Operating Instruction or by another Balancing Authority, Reliability Coordinator, or Transmission Operator. shall perform a quarterly assessment of its System Operators' communication practices and implement corrective actions necessary to meet the expectations in its documented communication protocols developed for Requirement RX -* R2 warrants raising the VRF to of "Medium" because it features evaluation and correction of operating links failed use of communication protocols to events that impact the reliability of the BES. The language change to R3, which now reads: "Each shall repeat, restate, rephrase, or recapitulate an Operating Instruction when required by the issuer of an Operating Instruction in its communication protocols developed in Requirement R1 so that the failure to repeat, restate, rephrase, or recapitulate the Operating Instruction does not result in an operating condition that requires the issuance of a Reliability Directive by the original issuer of the Operating Instruction or by another Balancing Authority, Reliability Coordinator, or Transmission Operator" warrants raising the VRF to of "Medium" because it links failed use of three-part communication to events that impact the reliability of the BES.*

NERC Criteria - Violation Severity Levels

Violation Severity Levels (VSLs) define the degree to which compliance with a requirement was not achieved. Each requirement must have at least one VSL. While it is preferable to have four VSLs for each requirement, some requirements do not have multiple "degrees" of noncompliant performance and may have only one, two, or three VSLs.

Violation severity levels should be based on the guidelines shown in the table below:

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Lower	Moderate	High	Severe
<p>Missing a minor element (or a small percentage) of the required performance</p> <p>The performance or product measured has significant value as it almost meets the full intent of the requirement.</p>	<p>Missing at least one significant element (or a moderate percentage) of the required performance.</p> <p>The performance or product measured still has significant value in meeting the intent of the requirement.</p>	<p>Missing more than one significant element (or is missing a high percentage) of the required performance or is missing a single vital component.</p> <p>The performance or product has limited value in meeting the intent of the requirement.</p>	<p>Missing most or all of the significant elements (or a significant percentage) of the required performance.</p> <p>The performance measured does not meet the intent of the requirement or the product delivered cannot be used in meeting the intent of the requirement.</p>

FERC Order on Violation Severity Levels

In its June 19, 2008 Order on Violation Severity Levels, FERC indicated it would use the following four guidelines for determining whether to approve VSLs:

Guideline 1: Violation Severity Level Assignments Should Not Have the Unintended Consequence of Lowering the Current Level of Compliance

Compare the VSLs to any prior Levels of Non-compliance and avoid significant changes that may encourage a lower level of compliance than was required when Levels of Non-compliance were used.

Guideline 2: Violation Severity Level Assignments Should Ensure Uniformity and Consistency in the Determination of Penalties

Guideline 2a: A violation of a “binary” type requirement must be a “Severe” VSL.

Guideline 2b: Do not use ambiguous terms such as “minor” and “significant” to describe noncompliant performance.

Guideline 3: Violation Severity Level Assignment Should Be Consistent with the Corresponding Requirement

VSLs should not expand on what is required in the requirement.

Guideline 4: Violation Severity Level Assignment Should Be Based on A Single Violation, Not on A Cumulative Number of Violations

. . . unless otherwise stated in the requirement, each instance of non-compliance with a requirement is a separate violation. Section 4 of the Sanction Guidelines states that assessing penalties on a per violation per day basis is the “default” for penalty calculations.

The drafting team will complete the following table, providing of analysis and justification for each VRF and VSL, for each requirement.

VRF and VSL Justifications – COM 003-1, R1	
Proposed VRF	Low
NERC VRF Discussion	R1 is a requirement in a long term planning time frame that, if violated, would not, under the emergency, abnormal, or restorative conditions anticipated by the preparations, be expected to adversely affect the electrical state or capability of the bulk electric system The VRF for this requirement is “Low” which is consistent with NERC guidelines

VRF and VSL Justifications – COM 003-1, R1			
FERC VRF G1 Discussion	Guideline 1- Consistency w/ Blackout Report: R1 establishes communication protocols, which is consistent with FERC guideline G1.		
FERC VRF G2 Discussion	Guideline 2- Consistency within a Reliability Standard : The requirement has sub- requirements parts that are of equal importance and similarly address communication protocols; only one VRF was assigned so there is no conflict.		
FERC VRF G3 Discussion	Guideline 3- Consistency among Reliability Standards: This requirement calls for the development and implementation of documented communication protocols by entities that will both issue and receive “Operating Instructions” that reduce the possibility of miscommunication which could eventually lead to action or inaction harmful to the reliability of BES.		
FERC VRF G4 Discussion	Guideline 4- Consistency with NERC Definitions of VRFs: Failure to utilize communication protocols properly could directly affect the electrical state or the capability of the bulk electric system, or the ability to effectively monitor and control the bulk electric system. However, violation of the requirement is unlikely to lead to bulk electric system instability, separation, or cascading failures. The VRF for this requirement is “-Low” which is consistent with NERC guidelines for similar requirements.		
FERC VRF G5 Discussion	Guideline 5- Treatment of Requirements that Co-mingle More than One Obligation: COM-003-1, Requirement R1 contains only one objective which is to specify clear, formal and universally applied communication protocols that reduce the possibility of miscommunication which could lead to action or inaction harmful to the reliability of BES. Since the requirement has only one objective, only one VRF was assigned.		
Proposed VSL			
Lower	Moderate	High	Severe
<u>The Responsible Entity did not</u>	<u>The Responsible Entity did not</u>	<u>The Responsible Entity did not</u>	<u>The Responsible Entity did not</u>

VRF and VSL Justifications – COM 003-1, R1

<p><u>develop one (1) of the five (5) parts of Requirement R1 in their documented communication protocols as required in Requirement R1</u></p> <p>The Responsible Entity did not address one (1) of the nine(9) parts of Requirement R1 in their documented communication protocols as required in Requirement R1</p> <p>OR</p> <p>The Responsible Entity did not implement one (1) of the nine (9) parts of Requirement R1 in their documented communication protocols as required in Requirement R1</p>	<p><u>develop two (2) of the five (5) parts of Requirement R1 in their documented communication protocols as required in Requirement R1</u></p> <p>The Responsible Entity did not address two (2) of the nine (9) parts of Requirement R1 in their documented communication protocols as required in Requirement R1</p> <p>OR</p> <p>The Responsible Entity did not implement two (2) of the nine (9) parts of Requirement R1 in</p>	<p><u>develop three of the five (5) parts of Requirement R1 in their documented communication protocols as required in Requirement R1</u></p> <p>The Responsible Entity did not address three (3) of the nine (9) parts of Requirement R1 in their documented communication protocols as required in Requirement R1</p> <p>OR</p> <p>The Responsible Entity did not implement three (3) of the nine (9) parts of Requirement R1 in their documented communication protocols as required in Requirement R1</p>	<p><u>develop four or more of the five (5) parts of Requirement R1 in their documented communication protocols as required in Requirement R1</u></p> <p>The Responsible Entity did not address four (4) or more of the nine (9) parts of Requirement R1 in their documented communication protocols as required in Requirement R1</p> <p>OR</p> <p>The Responsible Entity did not have any documented communication protocols as required in Requirement R1</p> <p>OR</p> <p>The Responsible Entity did not</p>
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VRF and VSL Justifications – COM 003-1, R1

	their documented communication protocols as required in Requirement R1		implement any documented communication protocols as required in Requirement R1
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VRF and VSL Justifications – COM 003-1, R1

VRF and VSL Justifications – COM 003-1, R1	
<p>FERC VSL G1 Violation Severity Level Assignments Should Not Have the Unintended Consequence of Lowering the Current Level of Compliance</p>	<p>Based on the VSL Guidance, the SDT developed four VSLs based on misapplication or absence of common communication protocols. If no communication protocols were addressed at all or if the number of required protocols falls below the listed thresholds, then the VSL is Severe.</p>
<p>FERC VSL G2 Violation Severity Level Assignments Should Ensure Uniformity and Consistency in the Determination of Penalties Guideline 2a: The Single Violation Severity Level Assignment Category for "Binary" Requirements Is Not Consistent Guideline 2b: Violation Severity Level Assignments that Contain Ambiguous Language</p>	<p>Guideline 2a: The VSL assignment for R1 is not binary.</p> <p>Guideline 2b: The proposed VSL does not use any ambiguous terminology, thereby supporting uniformity and consistency in the determination of similar penalties for similar violations.</p>
<p>FERC VSL G3 Violation Severity Level Assignment Should Be Consistent with the</p>	<p>The proposed VSL uses the same terminology as used in the associated requirement, and is, therefore, consistent with the requirement</p>

VRF and VSL Justifications – COM 003-1, R1	
Corresponding Requirement	
<p>FERC VSL G4 Violation Severity Level Assignment Should Be Based on A Single Violation, Not on A Cumulative Number of Violations</p>	The VSL is based on a single violation and not cumulative violations
<p>FERC VSL G5 Requirements where a single lapse in protection can compromise computer network security, i.e., the ‘weakest link’ characteristic, should apply binary VSLs</p>	Non CIP
<p>FERC VSL G6 VSLs for cyber security requirements containing interdependent tasks of documentation and implementation should account for their interdependence</p>	Non CIP

VRF and VSL Justifications – COM 003-1, R2	
Proposed VRF	Medium
NERC VRF Discussion	R2 is a requirement in an Operations planning and Operations Assessment <u>Real Time, Operations-</u> time frame that, <u>if violated, could directly affect the electrical state or the capability of the bulk electric system, or the ability to effectively monitor and control the bulk electric system.</u> However, <u>violation of a medium risk requirement is unlikely to lead to bulk electric system instability, separation, or cascading failures.</u> if violated, would not, under the emergency, abnormal, or restorative conditions anticipated by the preparations, be expected to adversely affect the electrical state or capability of the bulk electric system The VRF for this requirement is “Medium” which is consistent with NERC guidelines.
FERC VRF G1 Discussion	Guideline 1- Consistency w/ Blackout Report: R2 falls under Recommendation 26 of the Blackout Report. The VRF for this requirement is “Medium” which is consistent with FERC guideline G1.
FERC VRF G2 Discussion	Guideline 2- Consistency within a Reliability Standard : The requirement has no sub-requirements; only one VRF was assigned so there is no conflict.
FERC VRF G3 Discussion	Guideline 3- Consistency among Reliability Standards: This requirement calls for <u>implementation of communication protocols developed in Requirement R1 so that the failure to use the protocols by the issuer of an Operating Instruction does not result in an operating condition that requires the issuance of a Reliability Directive by the original issuer of the Operating Instruction or by another Balancing Authority, Reliability Coordinator, or Transmission Operator</u> the assessment and correction of System Operators’ performance with documented communication protocols by entities that will both issue and receive “Operating Instructions” <u>in order</u> to reduce the possibility of miscommunication which could eventually lead to action or inaction harmful to the reliability of BES.
FERC VRF G4 Discussion	Guideline 4- Consistency with NERC Definitions of VRFs: Failure <u>to implement communication protocols developed in Requirement R1 so that the failure to use the protocols by the issuer of an Operating Instruction results in an operating condition that requires the</u>

VRF and VSL Justifications – COM 003-1, R2			
	<p>issuance of a Reliability Directive to assess and correct System Operators' performance with proper utilization of communication protocols could directly affect the electrical state or the capability of the bulk electric system, or the ability to effectively monitor and control the bulk electric system. However, violation of the requirement is unlikely to lead to bulk electric system instability, separation, or cascading failures. The VRF for this requirement is "Medium" which is consistent with NERC guidelines</p>		
FERC VRF G5 Discussion	<p>Guideline 5- Treatment of Requirements that Co-mingle More than One Obligation: COM-003-1, Requirement R2 contains only one objective which is to specify clear, formal and universally applied communication protocols that reduce the possibility of miscommunication which could lead to action or inaction harmful to the reliability of BES. Since the requirement has only one objective, only one VRF was assigned.</p>		
Proposed VSL			
Lower	Moderate	High	Severe
<p>N/A The Responsible Entity performed periodic assessments of its System Operators' communication practices and implemented 50% or more but not all corrective action identified in Requirement R2 necessary to meet the expectations in its documented communication protocols developed for Requirement R1.</p>	<p>N/A The Responsible Entity performed periodic assessments of its System Operators' communication practices and implemented less than 50% of the corrective actions identified in Requirement R2 necessary to meet the expectations in its documented communication protocols developed for Requirement R1.</p>	<p>N/A The Responsible Entity performed periodic assessments of its System Operators' communication practices but did not implement any corrective actions identified in Requirement R2 necessary to meet the expectations in its documented communication protocols developed for Requirement R1.</p>	<p><u>The Responsible Entity failed to use the protocols developed in Requirement R1 which resulted in an operating condition that required the issuance of a Reliability Directive by the original issuer of the Operating Instruction or by another Balancing Authority, Reliability Coordinator, or Transmission Operator. The Responsible Entity did not perform periodic assessments of its System Operators' communication</u></p>

VRF and VSL Justifications – COM 003-1, R2

			practices identified in Requirement R2 necessary to meet the expectations in its documented communication protocols developed for Requirement R1.
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VRF and VSL Justifications – COM 003-1, R2

<p>FERC VSL G1 Violation Severity Level Assignments Should Not Have the Unintended Consequence of Lowering the Current Level of Compliance</p>	<p>Based on the VSL Guidance, the SDT developed four VSLs based on quarterly assessments of an entity's System Operators' communication practices and the administration of corrective actions. If no quarterly assessments of an entity's System Operators' communication practices are conducted a single binary, then theVSL, <u>therefore it</u> is Severe.</p>
<p>FERC VSL G2 Violation Severity Level Assignments Should Ensure Uniformity and Consistency in the Determination of Penalties Guideline 2a: The Single Violation Severity Level Assignment Category for "Binary" Requirements Is Not Consistent Guideline 2b: Violation Severity Level Assignments that Contain Ambiguous Language</p>	<p>Guideline 2a: The VSL assignment for R2 is not binary.</p> <p>Guideline 2b: The proposed VSL does not use any ambiguous terminology, thereby supporting uniformity and consistency in the determination of similar penalties for similar violations.</p>
<p>FERC VSL G3 Violation Severity Level Assignment Should Be Consistent with the</p>	<p>The proposed VSL uses the same terminology as used in the associated requirement, and is, therefore, consistent with the requirement</p>

VRF and VSL Justifications – COM 003-1, R2	
Corresponding Requirement	
<p>FERC VSL G4 Violation Severity Level Assignment Should Be Based on A Single Violation, Not on A Cumulative Number of Violations</p>	The VSL is based on a single violation and not cumulative violations
<p>FERC VSL G5 Requirements where a single lapse in protection can compromise computer network security, i.e., the ‘weakest link’ characteristic, should apply binary VSLs</p>	Non CIP
<p>FERC VSL G6 VSLs for cyber security requirements containing interdependent tasks of documentation and implementation should account for their interdependence</p>	Non CIP

VRF and VSL Justifications – COM 003-1, R3	
Proposed VRF	Low
NERC VRF Discussion	R3 is a requirement in a long term planning Real Time, time frame that, if violated, <u>could directly affect the electrical state or the capability of the bulk electric system, or the ability to effectively monitor and control the bulk electric system.</u> However, violation of a medium risk requirement is unlikely to lead to <u>bulk electric system instability, separation, or cascading failures</u> would not, under the emergency, abnormal, or restorative conditions anticipated by the preparations, be expected to adversely affect the electrical state or capability of the bulk electric system. The VRF for this requirement is “ <u>LowMedium</u> ” which is consistent with NERC guidelines.
FERC VRF G1 Discussion	Guideline 1- Consistency w/ Blackout Report: R3 establishes communication protocols, which is consistent with FERC guideline G1.
FERC VRF G2 Discussion	Guideline 2- Consistency within a Reliability Standard : The requirement has <u>no</u> sub-requirements that are of equal importance and similarly address communication protocols ; only one VRF was assigned so there is no conflict.
FERC VRF G3 Discussion	Guideline 3- Consistency among Reliability Standards: This requirement calls for <u>an entity to repeat, restate, rephrase, or recapitulate an Operating Instruction when required by the issuer of an Operating Instruction in its communication protocols developed in Requirement R1 so that the failure to repeat, restate, rephrase, or recapitulate the Operating Instruction does not result in an operating condition that requires the issuance of a Reliability Directive by the original issuer of the Operating Instruction or by another Balancing Authority, Reliability Coordinator, or Transmission Operator</u> the development and implementation of documented communication protocols by entities that will only receive “Operating Instructions” that to reduce the possibility of miscommunication which could eventually lead to action or inaction harmful to the reliability of BES.
FERC VRF G4 Discussion	Guideline 4- Consistency with NERC Definitions of VRFs: Failure to utilize communication protocols properly could directly affect the electrical state or the

VRF and VSL Justifications – COM 003-1, R3			
	<p>capability of the bulk electric system, or the ability to effectively monitor and control the bulk electric system. However, violation of the requirement is unlikely to lead to bulk electric system instability, separation, or cascading failures. The VRF for this requirement is “Low<u>Medium</u>” which is consistent with NERC guidelines for requirements that are administrative.</p>		
FERC VRF G5 Discussion	<p>Guideline 5- Treatment of Requirements that Co-mingle More than One Obligation: COM-003-1, Requirement R3 contains only one objective which is to specify clear, formal and universally applied communication protocols that reduce the possibility of miscommunication which could lead to action or inaction harmful to the reliability of BES. Since the requirement has only one objective, only one VRF was assigned.</p>		
Proposed VSL			
Lower	Moderate	High	Severe
<u>N/A</u>	<p>N/AThe Responsible Entity did not address one (1) of the three(3) parts of Requirement R3 in their documented communication protocols as required in Requirement R3</p> <p>OR</p> <p>The Responsible Entity did not implement one (1) of the three(3) parts of Requirement</p>	<p>N/AThe Responsible Entity did not address two (2) of the three(3) parts of Requirement R3 in their documented communication protocols as required in Requirement R3</p> <p>OR</p> <p>The Responsible Entity did not implement two (2) of the three(3) parts of Requirement R3 in their</p>	<p><u>The Responsible Entity failed repeat, restate, rephrase, or recapitulate an Operating Instruction when required by the issuer of an Operating Instruction in its communication protocols developed in Requirement R1, which resulted in an operating condition that required the issuance of a Reliability Directive by the original issuer of the Operating Instruction or another</u></p>

VRF and VSL Justifications – COM 003-1, R3

	<p>R3</p> <p>in their documented communication protocols as required in Requirement R3</p>	<p>documented communication protocols as required in Requirement R3</p>	<p>Balancing Authority, Reliability Coordinator, or Transmission Operator. The Responsible Entity did not address three (3) of the three(3) parts of Requirement R3 in their documented communication protocols as required in Requirement R3</p> <p>OR</p> <p>The Responsible Entity did not develop any documented communication protocols as required in Requirement R3</p> <p>OR</p> <p>The Responsible Entity did not implement any documented communication protocols as required in Requirement R3</p>
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VRF and VSL Justifications – COM 003-1, R3

<p>VRF and VSL Justifications – COM 003-1, R3</p>	
<p>FERC VSL G1 Violation Severity Level Assignments Should Not Have the Unintended Consequence of Lowering the Current Level of Compliance</p>	<p>Based on the VSL Guidance, the SDT developed four<u>one</u> VSLs based on <u>the failure to repeat, restate, rephrase, or recapitulate an Operating Instruction when required by the issuer of an Operating Instruction in its communication protocols developed in Requirement R1, which resulted in an operating condition that required the issuance of a Reliability Directive. Therefore, misapplication or absence of common communication protocols. If no communication protocols are used at all or if the number of required protocols falls below the listed thresholds, then the VSL is Severe.</u></p>
<p>FERC VSL G2 Violation Severity Level Assignments Should Ensure Uniformity and Consistency in the Determination of Penalties Guideline 2a: The Single Violation Severity Level Assignment Category for "Binary" Requirements Is Not Consistent Guideline 2b: Violation Severity Level Assignments that Contain Ambiguous Language</p>	<p>Guideline 2a: The VSL assignment for R1-R3 is not binary.</p> <p>Guideline 2b: The proposed VSL does not use any ambiguous terminology, thereby supporting uniformity and consistency in the determination of similar penalties for similar violations.</p>
<p>FERC VSL G3 Violation Severity Level Assignment Should Be Consistent with the</p>	<p>The proposed VSL uses the same terminology as used in the associated requirement, and is, therefore, consistent with the requirement</p>

VRF and VSL Justifications – COM 003-1, R3

VRF and VSL Justifications – COM 003-1, R3	
Corresponding Requirement	
<p>FERC VSL G4 Violation Severity Level Assignment Should Be Based on A Single Violation, Not on A Cumulative Number of Violations</p>	The VSL is based on a single violation and not cumulative violations
<p>FERC VSL G5 Requirements where a single lapse in protection can compromise computer network security, i.e., the ‘weakest link’ characteristic, should apply binary VSLs</p>	Non CIP
<p>FERC VSL G6 VSLs for cyber security requirements containing interdependent tasks of documentation and implementation should account for their interdependence</p>	Non CIP

VRF and VSL Justifications – COM-003-1, R4	
Proposed VRF	Medium
NERC VRF Discussion	R4 is a requirement in an Operations planning and Operations Assessment time frame that, if violated, would not, under the emergency, abnormal, or restorative conditions anticipated by the preparations, be expected to adversely affect the electrical state or capability of the bulk electric system. The VRF for this requirement is “Medium” which is consistent with NERC guidelines.
FERC VRF G1 Discussion	Guideline 1 – Consistency w/ Blackout Report: R4 falls under Recommendation 26 of the Blackout Report. The VRF for this requirement is “Medium” which is consistent with FERC guideline G1.
FERC VRF G2 Discussion	Guideline 2 – Consistency within a Reliability Standard : The requirement has sub-requirements that are of equal importance and similarly address communication protocols; only one VRF was assigned so there is no conflict.
FERC VRF G3 Discussion	Guideline 3 – Consistency among Reliability Standards: This requirement calls for the assessment and correction of operators’ performance with documented communication protocols that reduce the possibility of miscommunication which could eventually lead to action or inaction harmful to the reliability of BES.
FERC VRF G4 Discussion	Guideline 4 – Consistency with NERC Definitions of VRFs: Failure to assess and correct operators’ performance with proper utilization of communication protocols could directly affect the electrical state or the capability of the bulk electric system, or the ability to effectively monitor and control the bulk electric system. However, violation of the requirement is unlikely to lead to bulk electric system instability, separation, or cascading failures. The VRF for this requirement is “Medium” which is consistent with NERC guidelines
FERC VRF G5 Discussion	Guideline 5 – Treatment of Requirements that Co-mingle More than One Obligation: COM-003-1, Requirement R4 contains only one objective which is to specify clear, formal and universally applied communication protocols that reduce the possibility of miscommunication which could lead to action or inaction harmful to the reliability of BES. Since the requirement has only one objective, only one

VRF and VSL Justifications — COM-003-1, R4			
		VRF was assigned.	
Proposed VSL			
Lower	Moderate	High	Severe
The Responsible Entity performed periodic assessments of its operators' communication practices and implemented 50 % or more but not all corrective action identified in Requirement R4 necessary to meet the expectations in its documented communication protocols developed for Requirement R3.	The Responsible Entity performed periodic assessments of its operators' communication practices and implemented less than 50 % of the corrective actions identified in Requirement R4 necessary to meet the expectations in its documented communication protocols developed for Requirement R3.	The Responsible Entity performed periodic assessments of its operators' communication practices but did not implement any corrective actions identified in Requirement R4 necessary to meet the expectations in its documented communication protocols developed for Requirement R3.	The Responsible Entity did not perform assessments of its operators' communication practices and did not meet the expectations in its documented communication protocols developed for Requirement R3.

VRF and VSL Justifications – COM-003-1, R4

VRF and VSL Justifications – COM-003-1, R4	
<p>FERG-VSL-G1 Violation Severity Level Assignments Should Not Have the Unintended Consequence of Lowering the Current Level of Compliance</p>	<p>Based on the VSL Guidance, the SDT developed four VSLs based on misapplication or absence of quarterly assessments or correction of an entity's System Operators' communication practices. If no quarterly assessments of an entity's System Operators' communication practices are conducted, then the VSL is Severe.</p>
<p>FERG-VSL-G2 Violation Severity Level Assignments Should Ensure Uniformity and Consistency in the Determination of Penalties Guideline 2a: The Single Violation Severity Level Assignment Category for "Binary" Requirements Is Not Consistent Guideline 2b: Violation Severity Level Assignments that Contain Ambiguous Language</p>	<p>Guideline 2a: The VSL assignment for R4 is not binary.</p> <p>Guideline 2b: The proposed VSL does not use any ambiguous terminology, thereby supporting uniformity and consistency in the determination of similar penalties for similar violations.</p>
<p>FERG-VSL-G3 Violation Severity Level Assignment Should Be Consistent with the</p>	<p>The proposed VSL uses the same terminology as used in the associated requirement, and is, therefore, consistent with the requirement</p>

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Corresponding Requirement	
<p>FERC-VSL-G4 Violation Severity Level Assignment Should Be Based on A Single Violation, Not on A Cumulative Number of Violations</p>	<p>The VSL is based on a single violation and not cumulative violations</p>
<p>FERC-VSL-G5 Requirements where a single lapse in protection can compromise computer network security, i.e., the ‘weakest link’ characteristic, should apply binary VSLs</p>	<p>Non-CIP</p>
<p>FERC-VSL-G6 VSLs for cyber security requirements containing interdependent tasks of documentation and implementation should account for their interdependence</p>	<p>Non-CIP</p>