

Project 2007-02: Operating Personnel Communication Protocols

Mapping Document

COM-001-1.1 to COM-002-4

Board Approved Standard	Proposed Replacement Requirement(s)
<p>COM-001-1.1</p> <p>R4. Unless agreed to otherwise, each Reliability Coordinator, Transmission Operator, and Balancing Authority shall use English as the language for all communications between and among operating personnel responsible for the real-time generation control and operation of the interconnected Bulk Electric System. Transmission Operators and Balancing Authorities may use an alternate language for internal operations.</p>	<p>COM-002-4</p> <p>R1. Each Balancing Authority, Reliability Coordinator, and Transmission Operator shall have documented communications protocols. The protocols shall, at a minimum: <i>[Violation Risk Factor: Low][Time Horizon: Long-term Planning]</i></p> <p>1.2. Require the issuer and receiver of an oral or written Operating Instruction to use the English language, unless agreed to otherwise. An alternate language may be used for internal operations</p> <p>R2. Each Distribution Provider and Generator Operator shall have documented communications protocols. The protocols shall, at a minimum: <i>[Violation Risk Factor: Low][Time Horizon: Long-term Planning]</i></p> <p>2.1. Require the receiver of an oral or written Operating Instruction to use the English language, unless agreed to otherwise. An alternate language may be used for</p>

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	internal operations
Notes: Moved COM-001-1 R4 into COM 002-4 Requirement R1 Part 1.2 and Requirement R2 Part 2.1	

COM-002-2 to COM-002-3

Board Approved Standard	Proposed Replacement Requirement(s)
<p>COM-002-2</p> <p>R1. Each Transmission Operator, Balancing Authority, and Generator Operator shall have communications (voice and data links) with appropriate Reliability Coordinators, Balancing Authorities, and Transmission Operators. Such communications shall be staffed and available for addressing a real-time emergency condition. <i>[Violation Risk Factor: High]</i></p> <p>R1.1 Each Balancing Authority and Transmission Operator shall notify its Reliability Coordinator, and all other potentially affected Balancing Authorities and Transmission Operators through predetermined communication paths of any condition that could threaten the reliability of its area or when firm load shedding is anticipated. <i>[Violation Risk Factor: High]</i></p>	<p>The RC SDT retired COM-002-2, R1 and R1.1. The following rational was provided by that drafting team:</p> <p>The communications requirements of R1 are addressed in existing COM-001-1.1 as well as the proposed COM-001-2 requirements. Additionally, IRO-010-1a addresses data provisions.</p> <p>The RC SDT contends that COM-002-2, R1.1 is a low level facilitating requirement that is more appropriately and inherently monitored under various higher level performance-based reliability requirements for each entity throughout the body of standards. Examples include:</p> <ul style="list-style-type: none"> • EOP-002-1, R3 – outlines BA to RC communications. IRO-001-1, R3 requires adequate telecommunication for the Reliability Coordinator to direct actions of multiple entities, including TOPs and BAs. • TOP-001-1, R3 requires adequate telecommunications facilities for the TOP, BA, and GOP to be able to receive directives from the RC.

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	<ul style="list-style-type: none"> • TOP-001-1, R5 requires communications between TOPs and RCs for emergency situations. • TOP-005-1, R1 and R3 require adequate telecommunications for BAs and TOPs to provide each other with operating data as well as providing data to the RC. • TOP-006-1, R1 requires adequate telecommunications for the GOP to inform the BA and TOP of resources. The BA and TOP will then inform the RC, other TOP and BAs of all transmission and generation available for use. • PER-001-1, R1 and PER-004-1, R1 set forth the staffing requirements.
<p>Notes: The RC SDT contends that COM-002-2, R1 and its sub-requirements are low level facilitating requirements that are more appropriately and inherently monitored under various higher-level performance-based reliability requirements for each entity throughout the body of standards. These include standards within the COM, IRO, and TOP body of standards and are specifically identified in the mapping table below.</p>	
<p>COM-002-2</p> <p>R2. Each Reliability Coordinator, Transmission Operator, and Balancing Authority shall issue directives in a clear, concise, and definitive manner; shall ensure the recipient of the directive repeats the information back correctly; and shall acknowledge the response as correct or repeat the original statement to resolve any misunderstandings. <i>[Violation Risk Factor: Medium]</i></p>	<p>COM-002-3</p> <p>The RC SDT expanded COM-002-2 R2 into three requirements in COM-002-3:</p> <p>R1. When a Reliability Coordinator, Transmission Operator or Balancing Authority requires actions to be executed as a Reliability Directive, the Reliability Coordinator, Transmission Operator or Balancing Authority shall identify the action as a Reliability Directive to the recipient. <i>[Violation Risk Factor: High][Time Horizon: Real-Time]</i></p>

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	<p>R2. Each Balancing Authority, Transmission Operator, Generator Operator, and Distribution Provider that is the recipient of a Reliability Directive, shall repeat, restate, rephrase or recapitulate the Reliability Directive. <i>[Violation Risk Factor: High][Time Horizon: Real-Time]</i></p> <p>R3. Each Reliability Coordinator, Transmission Operator, and Balancing Authority that issues a Reliability Directive shall either: <i>[Violation Risk Factor: High][Time Horizon: Real-Time]</i></p> <ul style="list-style-type: none"> • Confirm that the response from the recipient of the Reliability Directive (in accordance with Requirement R2) was accurate, or • Reissue the Reliability Directive to resolve any misunderstandings.
<p>Notes: The RC SDT expanded the list of responsible entities to include the DP and GOP and subdivided the requirement to improve clarity.</p>	

COM-002-3 to COM-002-4

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<p>COM-002-3</p> <p>R1. When a Reliability Coordinator, Transmission Operator or Balancing Authority requires actions to be executed as a Reliability Directive, the Reliability Coordinator, Transmission Operator or Balancing Authority shall identify the action as a Reliability Directive to the recipient. <i>[Violation Risk Factor: High][Time</i></p>	<p>COM-002-4</p> <p>R1. Each Balancing Authority, Reliability Coordinator, and Transmission Operator shall have documented communications protocols. The protocols shall, at a minimum: <i>[Violation Risk Factor: Low][Time Horizon: Long-term Planning]</i></p>

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<i>Horizon: Real-Time]</i>	1.1. Require the issuer of a Reliability Directive to identify the action as a Reliability Directive to the receiver.
Notes: Moved COM-002-3 R1 into COM 002-4 Requirement 1 Part 1.1	
<p>R2. Each Balancing Authority, Transmission Operator, Generator Operator, and Distribution Provider that is the recipient of a Reliability Directive, shall repeat, restate, rephrase or recapitulate the Reliability Directive. <i>[Violation Risk Factor: High][Time Horizon: Real-Time]</i></p>	<p>R1. Each Balancing Authority, Reliability Coordinator, and Transmission Operator shall have documented communications protocols. The protocols shall, at a minimum: <i>[Violation Risk Factor: Low][Time Horizon: Long-term Planning]</i></p> <p>1.4. Require the receiver of an oral two-party, person-to-person Operating Instruction to take one of the following actions:</p> <ul style="list-style-type: none"> • Repeat the Operating Instruction and wait for confirmation from the issuer that the repetition was correct. • Request that the issuer reissue the Operating Instruction. <p>R2. Each Distribution Provider and Generator Operator shall have documented communications protocols. The protocols shall, at a minimum: <i>[Violation Risk Factor: Low][Time Horizon: Long-term Planning]</i></p> <p>2.2. Require the receiver of an oral two-party, person-to-person Operating Instruction to take one of the following actions:</p> <ul style="list-style-type: none"> • Repeat the Operating Instruction and wait for confirmation from the issuer that the repetition was

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	<p>correct.</p> <ul style="list-style-type: none"> Request that the issuer reissue the Operating Instruction.
<p>Notes: Moved COM-002-3 R2 into COM 002-4 Requirement R1 Part 1.4 and Requirement R2 Part 2.2. Additional language was added to provide clarity for the responsibility of the receiver of three-part communication.</p>	
<p>R3. Each Reliability Coordinator, Transmission Operator, and Balancing Authority that issues a Reliability Directive shall either: <i>[Violation Risk Factor: High] [Time Horizon: Real-Time]</i></p> <ul style="list-style-type: none"> Confirm that the response from the recipient of the Reliability Directive (in accordance with Requirement R2) was accurate, or Reissue the Reliability Directive to resolve any misunderstandings. 	<p>R1. Each Balancing Authority, Reliability Coordinator, and Transmission Operator shall have documented communications protocols. The protocols shall, at a minimum: <i>[Violation Risk Factor: Low][Time Horizon: Long-term Planning]</i></p> <p>1.3. Require the issuer of an oral two-party, person-to-person Operating Instruction to wait for a response from the receiver. Once a response is received, or if no response is received, require the issuer to take one of the following actions:</p> <ul style="list-style-type: none"> Confirm the receiver’s response if the repeated information is correct. Reissue the Operating Instruction if the repeated information is incorrect, if the receiver does not issue a response, or if requested by the receiver.
<p>Notes: Moved COM-002-3 R3 into COM 002-4 Requirement R1 Part 1.3. Additional language was added to provide clarity for the responsibility of the issuer of three-part communication.</p>	