Mapping Document

Project 2015-08 Emergency Operations

Standard: EOP-005-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
EOP-005-2, Requirement R1 **R1.** Each Transmission Operator shall have a restoration plan approved by its Reliability Coordinator. The restoration plan shall allow for restoring the Transmission Operator's System following a Disturbance in which one or more areas of the Bulk Electric System (BES) shuts down and the use of Blackstart Resources is required to restore the shut down area to service, to a state whereby the choice of the next Load to be restored is not driven by the need to control frequency or voltage regardless of whether the Blackstart Resource is located within the Transmission Operator's System. The restoration plan shall include: [Violation Risk Factor = High] [Time Horizon = Operations Planning]	EOP-005-3, Requirement R1 **R1.** Each Transmission Operator shall develop and implement a restoration plan approved by its Reliability Coordinator. The restoration plan shall be implemented to restore the Transmission Operator's System following a Disturbance in which one or more areas of the Bulk Electric System (BES) shuts down and the use of Blackstart Resources is required to restore the shutdown area ~~to service~~, to a state whereby the choice of the next Load to be restored is not driven by the need to control frequency or voltage regardless of whether the Blackstart Resource is located within the Transmission Operator's System. The restoration plan shall include: *[Violation Risk Factor = High] [Time Horizon = Operations Planning, Real-time Operations]*	EOP-005-3, Requirement R1 In this industry it is widely understood that "*have a restoration plan*," is not simply to be in possession of a restoration plan. The intent of the EOP SDT to add the language "develop and implement" is for the TOP to develop its restoration plan and for the restoration plan to be utilized. Due to the addition of the word "implement," the phrase, "Real-time Operations" was added to the Time Horizon. The EOP SDT agrees with the Independent Experts Review Panel (IERP) recommendation to retire EOP-005-2, Requirement R7 as redundant. By adding the language: "develop and implement" and "be implemented to restore" to EOP-005-3 Requirement R1,

Standard: EOP-005-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
		EOP-005-2 Requirement R7, is redundant to EOP-005-3 Requirement R1.
EOP-005-2, Requirement R1, Part 1.1 **1.1.** Strategies for System restoration that are coordinated with the Reliability Coordinator's high level strategy for restoring the Interconnection.	EOP-005-3, Requirement R1, Part 1.1 **1.1.** Strategies for System restoration that are coordinated with ~~the~~ its Reliability Coordinator's high level strategy for restoring the Interconnection.	"The Reliability Coordinator" has been updated to "its Reliability Coordinator" for consistency throughout the standard.
EOP-005-2, Requirement R1, Part 1.3 **1.3.** Procedures for restoring interconnections with other Transmission Operators under the direction of the Reliability Coordinator.	EOP-005-3, Requirement R1, Part 1.3 **1.3.** Procedures for restoring interconnections with other Transmission Operators under the direction of ~~the~~ its Reliability Coordinator.	"The Reliability Coordinator" has been updated to "its Reliability Coordinator" for consistency throughout the standard.
EOP-005-2, Requirement R1, Part 1.9 **1.9.** Operating Processes for transferring authority back to the Balancing Authority in accordance with the Reliability Coordinator's criteria.	EOP-005-3, Requirement R1, Part 1.9 **1.9.** Operating Processes for transferring operations back to the Balancing Authority in accordance with ~~the~~ its Reliability Coordinator's criteria.	Since the Balancing Authority does not relinquish any BA authority to the TOP, language was revised to: "1.9 Processes for transferring **operations** ~~authority~~ back to the Balancing Authority in accordance with the Reliability Coordinator's criteria."

Standard: EOP-005-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
		"The Reliability Coordinator" has been updated to "its Reliability Coordinator" for consistency throughout the standard.
EOP-005-2, Requirement R2 **R2.** Each Transmission Operator shall provide the entities identified in its approved restoration plan with a description of any changes to their roles and specific tasks prior to the implementation date of the plan. *[Violation Risk Factor = Medium] [Time Horizon = Operations Planning]*	EOP-005-3, Requirement R2 **R2.** Each Transmission Operator shall provide the entities identified in its approved restoration plan with a description of any changes to their roles and specific tasks prior to the effective date of the plan. *[Violation Risk Factor = Medium] [Time Horizon = Operations Planning]*	"Implementation date" was revised to "effective date" to clarify that the approved restoration plan is provided to entities prior to its effective date, rather than prior to any given implementation date of the restoration plan.
EOP-005-2, Measure M2 **M2.** Each Transmission Operator shall have evidence such as emails with receipts or registered mail receipts that it provided the entities identified in its approved restoration plan with a description of any changes to their roles and specific tasks prior to the implementation date of the plan in accordance with Requirement R2.	EOP-005-3, Measure M2 **M2.** Each Transmission Operator shall have evidence such as dated electronic receipts or registered mail receipts that it provided the entities identified in its approved restoration plan with a description of any changes to their roles and specific tasks prior to the effective date of the plan in accordance with Requirement R2.	The word "email" doesn't capture the universe of electronic receipts; verification for submitting entity, as opposed to receiving entity. Submitting entity is TOP.

Standard: EOP-005-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
EOP-005-2, Requirement R3 **R3.** Each Transmission Operator shall review its restoration plan and submit it to its Reliability Coordinator annually on a mutually-agreed, predetermined schedule. *[Violation Risk Factor = Medium] [Time Horizon = Operations Planning]* EOP-005-2, Requirement R3, Part 3.1 **3.1** If there are no changes to the previously submitted restoration plan, the Transmission Operator shall confirm annually on a predetermined schedule to its Reliability Coordinator that it has reviewed its restoration plan and no changes were necessary.	EOP-005-3, Requirement R3 **R3.** Each Transmission Operator shall review its restoration plan and submit it to its Reliability Coordinator annually on a mutually-agreed, predetermined schedule. *[Violation Risk Factor = Medium] [Time Horizon = Operations Planning]*	Retirement of EOP-005-2, Requirement R3, and Part 3.1 was approved by FERC with an effective date of January 21, 2014.
EOP-005-2, Requirement R4 **R4.** Each Transmission Operator shall update its restoration plan within 90 calendar days after identifying any unplanned permanent System modifications, or prior to	EOP-005-3, Requirement R4 **R4.** Transmission Operator shall ~~update and~~ submit its revised restoration plan to its Reliability Coordinator for approval, when	As previously written, Requirement R4 addressed (in one sentence) two restoration plan updates that a Transmission Operator must perform: (1) the restoration plan must be updated within 90 calendar days after identifying any unplanned permanent

Standard: EOP-005-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
implementing a planned BES modification, that would change the implementation of its restoration plan. *[Violation Risk Factor = Medium] [Time Horizon = Operations Planning]*	the revision would change its ability to implement its restoration plan, as follows	System modifications and (2) the restoration plan must be updated prior to implementing a planned BES modification. ~~The changes made in Requirement R4 and the requirement parts do not refer to outages.~~ The references to unplanned ~~unplanned~~ and planned BES modifications that will change the ability to implement the RC-approved restoration plan are intended to require a ~~Responsible Entity~~TOP to ~~update and~~ submit a revised restoration plan to the RC when the modification would substantively change the TOP's ability to implement the restoration plan or impact the RC's ability to monitor and direct restoration efforts. The intent is not to require a TOP to ~~update and~~ submit changes that do not substantively change the restoration plan~~, the TOP's ability to implement the plan,~~ or the RCs ability to monitor and direct the restoration efforts. Examples of instances that do not require update and submission of a restoration plan include element number

Standard: EOP-005-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
		changes, ~~or~~ device changes, or administrative changes that have no significance to the implementation of the plan. The timeframes referenced in Requirement R4, Part 4.2 for a permanent planned BES modification directs the Responsible Entity to EOP-006-2, Requirement R5.1 and draft EOP-006-3, Requirement R5, Part 5.1, which states that the RC shall approve or disapprove the TOPs submitted restoration plan within 30 days of receipt. This allows the Responsible Entity to coordinate submission with the RC based on the RCs specific requirements.
EOP-005-2, Requirement R4, Part 4.1 **R4.1** Each Transmission Operator shall submit its revised restoration plan to its Reliability Coordinator for approval within the same 90 calendar day period.	EOP-005-3, Requirement R4, Parts 4.1 and 4.2 **4.1** Within 90 calendar days after identifying any unplanned permanent BES modifications. **4.2** Prior to implementing a planned permanent BES modification subject	The EOP SDT revisions harmonize the use of "BES modification" and clarify the timing for unplanned permanent and planned permanent BES modifications.

Standard: EOP-005-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
	to ~~the~~ its Reliability Coordinator approval requirements per EOP-006.	
EOP-005-2, Requirement R5 **R5.** Each Transmission Operator shall have a copy of its latest Reliability Coordinator approved restoration plan within its primary and backup control rooms so that it is available to all of its System Operators prior to its implementation date. *[Violation Risk Factor = Lower] [Time Horizon = Operations Planning]*	EOP-005-3, Requirement R5 **R5.** Each Transmission Operator shall have a copy of its latest Reliability Coordinator approved restoration plan within its primary and backup control rooms so that it is available to all of its System Operators prior to its effective date. *[Violation Risk Factor = Lower] [Time Horizon = Operations Planning]*	"Implementation date" was revised to "effective date" to clarify that System Operators will be in possession of the most current version of a restoration plan prior to that plan becoming effective, rather than prior to any given implementation date of a restoration plan.
EOP-005-2, Requirement R6 **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]*	EOP-005-3, Requirement R6 **R6.** Each Transmission Operator shall verify through analysis of actual events, a combination of steady state and dynamic simulations, or testing that its restoration plan accomplishes its intended function. This shall be completed at least once every five years. Such analysis, simulations or testing shall verify: *[Violation Risk Factor = Medium] [Time Horizon = Long-term Planning]*	The sentence, "This shall be completed every five years at a minimum" was revised to: "This shall be completed at least once every five years" to eliminate any ambiguity in the prior language. Based on comments received from industry, the issue was raised that Requirement R6, as written, could be misinterpreted to require that every step of the restoration process must be validated through steady state and dynamic simulation, which can be an overly burdensome task. This

Standard: EOP-005-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
		interpretation could result in numerous simulations having to be performed, which was outside of the intention of the drafting team. To eliminate any unintentional misinterpretation of Requirement R6, it was revised to: "Each Transmission Operator shall verify through analysis of actual events, **a combination of** steady state and dynamic simulations…"
EOP-005-2, Requirement R7 **R7.** Following a Disturbance in which one or more areas of the BES shuts down and the use of Blackstart Resources 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]*		The EOP SDT agrees with the Independent Experts Review Panel (IERP) recommendation to retire EOP-005-2, Requirement R7 as redundant. By adding the language: "develop and implement" to EOP-005-3, Requirement R1, EOP-005-2, Requirement R7, is redundant to EOP-005-3, Requirement R1. R1. Each Transmission Operator shall have a restoration plan approved by its Reliability Coordinator. The restoration plan shall allow for restoring the Transmission Operator's System following a Disturbance in which one or more areas of the Bulk Electric System (BES) shuts down and the

Standard: EOP-005-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
		use of Blackstart Resources is required to restore the shut down area to service, to a state whereby the choice of the next Load to be restored is not driven by the need to control frequency or voltage regardless of whether the Blackstart Resource is located within the Transmission Operator's System.
EOP-005-2, Requirement R8 **R8.** Following a Disturbance in which one or more areas of the BES shuts down and the use of Blackstart Resources 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]*		The EOP SDT agrees with the IERP to retire EOP-005-2, Requirement R8 as "duplicative with EOP-005-2, Requirement R1, Part 1.3 (have a plan) and RC authority in IRO-001-1.1b, Requirement R3." The EOP SDT recommends retirement of EOP-005-2, Requirement R8 under Criterion B7 as Redundant.
EOP-005-2, Requirement R10, and Requirement R10, Parts 10.1, 10.2, 10.3, and 10.4	EOP-005-3, Requirement R8, and Requirement R, Parts 8.1, 8.2, 8.3, 8.4, and 8.5	The language, "…to assure the proper execution of its restoration plan" was removed from this requirement, as it added no additional value.

Standard: EOP-005-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
R10. Each Transmission Operator shall include within its operations training program, annual System restoration training for its System Operators to assure the proper execution of its restoration plan. This training program shall include training on the following: *[Violation Risk Factor = Medium] [Time Horizon = Operations Planning]* **10.1** System restoration plan including coordination with the Reliability Coordinator and Generator Operators included in the restoration plan. **10.2** Restoration priorities. **10.3** Building of cranking paths. **10.3** Synchronizing (re-energized sections of the System).	**R8.** Each Transmission Operator shall include within its operations training program, System restoration training annually for its System Operators. This training program shall include training on the following: *[Violation Risk Factor = Medium] [Time Horizon = Operations Planning]* **8.1** System restoration plan including coordination with ~~the~~ its Reliability Coordinator and Generator Operators included in the restoration plan. **8.2** Restoration priorities. **8.3** Building of cranking paths. **8.4** Synchronizing (re-energized sections of the System). **8.5** Transition of Demand and resource balance within its area to the Balancing Authority.	Requirement R8, Part 8.5 was added to Requirement R8 to address findings from the *Report on the FERC-NERC-Regional Entity Joint Review of Restoration and Recovery Plans*. Requirement R8, Part 8.5 has been revised to include language within the definition of BA, which was approved by the Board on 2/11/2016; pending FERC approval. The Board approved definition of Balancing Authority is: The responsible entity that integrates resource plans ahead of time, maintains Demand and resource balance within a Balancing Authority Area, and supports Interconnection frequency in real time. "The Reliability Coordinator" has been updated to "its Reliability Coordinator" for consistency throughout the standard.
EOP-005-2, Requirement R11	EOP-005-2, Requirement R9	"Two calendar years" was revised to "24 calendar months" for consistency in the

Standard: EOP-005-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
R11. Each Transmission Operator, each applicable Transmission Owner, and each applicable Distribution Provider shall provide a minimum of two hours of System restoration training every two calendar years to their field switching personnel identified as performing unique tasks associated with the Transmission Operator's restoration plan that are outside of their normal tasks. *[Violation Risk Factor = Medium] [Time Horizon = Operations Planning]*	**R9.** Each Transmission Operator, each applicable Transmission Owner, and each applicable Distribution Provider shall provide a minimum of two hours of System restoration training every ~~24 calendar months~~two calendar years to their field switching personnel identified as performing unique tasks associated with the Transmission Operator's restoration plan that are outside of their normal tasks. *[Violation Risk Factor = Medium] [Time Horizon = Operations Planning]*	standards. This provides flexibility for training schedules and equipment availability. This revision to Draft 3 of the standard is a revision back to the original language of EOP-005-2. Federal Energy Regulatory Commission (Commission) Order no. 749: *"[N]ERC, in its comments about the term [unique tasks], 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."*

Standard: EOP-005-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
		The Project 2015-02 Emergency Operations Periodic Review Team, as well as the Project 2015-08 Emergency Operations Standards Drafting Team determined (through conducted outreach and comment questions/responses during postings of periodic review templates and the SAR) that industry does not find ambiguity with the term "unique tasks." The industry understands "unique tasks" to be those tasks that are defined by the TOP, TO, and the DP. A rationale box was added to the requirement to clarify "unique tasks."
EOP-005-2, Measure M10 **M10.** Each Transmission Operator shall have evidence that it participated in the Reliability Coordinator's restoration drills, exercises, or simulations as requested in accordance with Requirement R10.	EOP-005-3, Measure M10 **M10.** Each Transmission Operator shall have evidence that it participated in ~~the~~ its Reliability Coordinator's restoration drills, exercises, or simulations as requested in accordance with Requirement R10.	"The Reliability Coordinator" has been updated to "its Reliability Coordinator" for consistency throughout the standard.
EOP-005-2, Measure M13 **M13.** Each Generator Operator with a Blackstart Resource shall provide evidence, such as emails with receipts or registered mail	EOP-005-3, Measure M13 **M13.** Each Generator Operator with a Blackstart Resource shall provide evidence, such as dated electronic receipts or	The word "email" doesn't capture the universe of electronic receipts; verification for submitting entity, as opposed to receiving entity. Submitting entity is GOP.

Standard: EOP-005-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
receipts, showing that it notified its Transmission Operator of any known changes to its Blackstart Resource capabilities within 24 hours of such changes in accordance with Requirement R13.	registered mail receipts, showing that it notified its Transmission Operator of any known changes to its Blackstart Resource capabilities within 24 hours of such changes in accordance with Requirement R13.	
EOP-005-2, Requirement R17 **R17.** Each Generator Operator with a Blackstart Resource shall provide a minimum of two hours of training every two calendar years to each of its operating personnel responsible for the startup of its Blackstart Resource generation units and energizing a bus. The training program shall include training on the following:	EOP-005-3, Requirement R15 **R15.** Each Generator Operator with a Blackstart Resource shall provide a minimum of two hours of training every ~~24 calendar months~~two calendar years to each of its operating personnel responsible for the startup of its Blackstart Resource generation units and energizing a bus. The training program shall include training on the following:	"Two calendar years" was revised to "24 calendar months" for consistency in the standards. This provides flexibility for training schedules and equipment availability. This revision to Draft 3 of the standard is a revision back to the original language of EOP-005-2.
EOP-005-2, Measure R16 **R18.** Each Generator Operator shall participate in the Reliability Coordinator's restoration drills, exercises, or simulations as requested by the Reliability Coordinator.	EOP-005-3, Measure R16 **R16.** Each Generator Operator shall participate in ~~the~~its Reliability Coordinator's restoration drills, exercises, or simulations as requested by ~~the~~its Reliability Coordinator.	"The Reliability Coordinator" has been updated to "its Reliability Coordinator" for consistency throughout the standard.

Standard: EOP-005-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
EOP-005-2, Measure M16 **M16.** Each Generator Operator shall have evidence, such as dated training records, that it participated in the Reliability Coordinator's restoration drills, exercises, or simulations if requested to do so in accordance with Requirement R16.	EOP-005-3, Measure M16 **M16.** Each Generator Operator shall have evidence that it participated in ~~the~~ its Reliability Coordinator's restoration drills, exercises, or simulations if requested to do so in accordance with Requirement R16.	"…such as dated training records…" was deleted from the Measure for consistency with Measure M10. "The Reliability Coordinator" has been updated to "its Reliability Coordinator" for consistency throughout the standard.

Standard: EOP-006-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
EOP-006-2, Requirement R1, and Requirement R1, Parts 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8 , and 1.9 **R1.** Each Reliability Coordinator shall have a Reliability Coordinator Area restoration plan. The scope of the Reliability Coordinator's restoration plan starts when Blackstart Resources are utilized to re-energize a shut down area of the Bulk Electric System (BES), or separation has occurred between neighboring Reliability Coordinators, or an energized island has been formed on the BES within the Reliability Coordinator Area. The scope of the Reliability Coordinator's restoration plan ends when all of its Transmission Operators are interconnected and ~~it~~ its Reliability Coordinator Area is connected to all of its neighboring Reliability Coordinator Areas. The restoration plan shall include: *[Violation Risk Factor = High] [Time Horizon = Operations Planning]* **1.1** A description of the high level strategy to be employed during	EOP-006-3, Requirement R1, and Requirement R1, Parts 1.1, 1.2, 1.3, 1.4, 1.5, and 1.6 **R1.** Each Reliability Coordinator shall develop, and implement a Reliability Coordinator Area restoration plan. The scope of the Reliability Coordinator's restoration plan starts when Blackstart Resources are utilized to re-energize a shutdown area of the Bulk Electric System (BES), or separation has occurred between neighboring Reliability Coordinators, or an energized island has been formed on the BES within the Reliability Coordinator Area. The scope of the Reliability Coordinator's restoration plan ends when all of its Transmission Operators are interconnected and its Reliability Coordinator Area is connected to all of its neighboring Reliability Coordinator Areas. The restoration plan shall include: *[Violation Risk Factor = High] [Time Horizon = Operations Planning, Real-time Operations]*	EOP-006-2 Requirement R1, Parts 1.2, 1.3, and 1.4 should be retired under Paragraph 81, Criterion B7, as redundant with Requirement R1, Part 1.5. Due to the addition of the language "implement," Real-time Operations was added to the Time Horizon. The language "adjacent" in Requirement R1, Part 1.2 was removed in which the EOP SDT agreed with comments from industry. ~~:~~ Requirement R1 already establishes that restoration efforts are complete when neighboring Transmission Operators are connected. The term "neighboring" should be interpreted as "adjacent" and no further clarification is necessary.

Standard: EOP-006-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
restoration events for restoring the Interconnection including minimum criteria for meeting the objectives of the Reliability Coordinator's restoration plan. **1.2** Operating Processes for restoring the Interconnection. **1.3** Descriptions of the elements of coordination between individual Transmission Operator restoration plans. **1.4** Descriptions of the elements of coordination of restoration plans with neighboring Reliability Coordinators. **1.5** Criteria and conditions for reestablishing interconnections with other Transmission Operators within its Reliability Coordinator Area, with Transmission Operators in other Reliability Coordinator Areas, and with other Reliability Coordinators.	**1.1** A description of the high-level strategy to be employed during restoration events for restoring the Interconnection, including minimum criteria for meeting the objectives of the Reliability Coordinator's restoration plan. **1.2** Criteria and conditions for re-establishing interconnections with other Transmission Operators within its Reliability Coordinator Area with Transmission Operators in other Reliability Coordinator Areas and with other Reliability Coordinators. **1.3** Reporting requirements for the entities within the Reliability Coordinator Area during a restoration event. **1.4** Criteria for sharing information regarding restoration with neighboring Reliability Coordinators and with Transmission Operators and	

Standard: EOP-006-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
1.6 Reporting requirements for the entities within the Reliability Coordinator Area during a restoration event. **1.7** Criteria for sharing information regarding restoration with neighboring Reliability Coordinators and with Transmission Operators and Balancing Authorities within its Reliability Coordinator Area. **1.8** Identification of the Reliability Coordinator as the primary contact for disseminating information regarding restoration to neighboring Reliability Coordinators, and to Transmission Operators, and Balancing Authorities within its Reliability Coordinator Area. **1.9** Criteria for transferring operations and authority back to the Balancing Authority.	Balancing Authorities within its Reliability Coordinator Area. **1.5** Identification of the Reliability Coordinator as the primary contact for disseminating information regarding restoration to neighboring Reliability Coordinators, and to Transmission Operators, and Balancing Authorities within its Reliability Coordinator Area. **1.6** Criteria for transferring operations and authority back to the Balancing Authority.	

Standard: EOP-006-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
EOP-006-2, Requirement R4, and Requirement R4, Part 4.1 **R4.** Each Reliability Coordinator shall review their neighboring Reliability Coordinator's restoration plans. *[Violation Risk Factor = Medium] [Time Horizon = Operations Planning]* **4.1** If the Reliability Coordinator finds conflicts between its restoration plans and any of its neighbors, the conflicts shall be resolved in 30 calendar days.	EOP-006-3, Requirement R4, and Requirement R4, Part 4.1 **R4.** Each Reliability Coordinator shall review its neighboring Reliability Coordinator's restoration plans and provide written notification of any conflicts discovered during that review within 60 calendar days of receipt. *[Violation Risk Factor = Medium] [Time Horizon = Operations Planning]* **4.1** If a Reliability Coordinator finds conflicts between its restoration plans and any of its neighbors, the conflicts shall be resolved within 30 calendar days of receipt of written notification.	Language for timeframe and written notification was added for clarity.
EOP-006-2, Measure M4 **M4.** Each Reliability Coordinator shall provide evidence such as dated review signature sheets or electronic receipt that it has reviewed its neighboring Reliability Coordinator's restoration plans and resolved any conflicts within 30 calendar days in accordance with Requirement R4.	EOP-006-3, Measure M4 **M4.** Each Reliability Coordinator shall provide evidence such as dated review signature sheets or electronic receipt that it has reviewed its neighboring Reliability Coordinator's restoration plans and resolved any conflicts within the timing	The language in Measure M4 was updated to align the timing requirements of Requirement R4 and Requirement R4 Part 4.1.

Standard: EOP-006-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
.	requirements of Requirement R4 and Requirement R4 Part 4.1.	
EOP-006-2, Requirement R5, Part 5.1 **5.1.** The Reliability Coordinator shall determine whether the Transmission Operator's restoration plan is coordinated and compatible with the Reliability Coordinator's restoration plan and other Transmission Operators' restoration plans within its Reliability Coordinator Area. The Reliability Coordinator shall approve or disapprove, with stated reasons, the Transmission Operator's submitted restoration plan within 30 calendar days following the receipt of the restoration plan from the Transmission Operator.	EOP-006-3, Requirement R5, Part 5.1 **5.1.** The Reliability Coordinator shall determine whether the Transmission Operator's restoration plan is coordinated and compatible with the Reliability Coordinator's restoration plan and other Transmission Operators' restoration plans within its Reliability Coordinator Area. The Reliability Coordinator shall provide notification to the Transmission Operator of approval or disapproval, with stated reasons, of the Transmission Operator's submitted restoration plan within 30 calendar days following the receipt of the restoration plan from the Transmission Operator.	To align the requirement to the measure in Requirement R5, Part 5.1.
EOP-006-2, Requirement R6 **R6.** Each Reliability Coordinator shall have a copy of its latest restoration plan and copies of the latest approved restoration plan of	EOP-006-3, Requirement R6 **R6.** Each Reliability Coordinator shall have a copy of its latest restoration plan and copies of the	"Implementation date" was revised to "effective date" for clarity.

Standard: EOP-006-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
each Transmission Operator in its Reliability Coordinator Area within its primary and backup control rooms so that it is available to all of its System Operators prior to the implementation date. *[Violation Risk Factor = Lower] [Time Horizon = Operations Planning]*	latest approved restoration plan of each Transmission Operator in its Reliability Coordinator Area within its primary and backup control rooms so that it is available to all of its System Operators prior to the effective date. *[Violation Risk Factor = Lower] [Time Horizon = Operations Planning]*	
EOP-006-2, Requirement R7 **R7.** Each Reliability Coordinator shall work with its affected Generator Operators~~,~~ and Transmission Operators as well as neighboring Reliability Coordinators to monitor restoration progress, coordinate restoration, and take actions to restore the BES frequency within acceptable operating limits. If the restoration plan cannot be completed as expected the Reliability Coordinator shall utilize its restoration plan strategies to facilitate System restoration.		The EOP SDT agrees with the IERP to retire EOP-006-2, Requirement R7 as "a logical action that does not require a standard." The EOP SDT recommends retirement of EOP-006-2, Requirement R7 under Criterion A (Overreaching Criterion). In addition, by adding the language: "develop and implement" to EOP-006-3, Requirement R1, EOP-006-2, Requirement R7, is redundant to EOP-006-3, Requirement R1.

Standard: EOP-006-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
[Violation Risk Factor = High] [Time Horizon = Real-time Operations]		
EOP-006-2, Requirement R8 **R8.** The Reliability Coordinator shall coordinate or authorize resynchronizing islanded areas that bridge boundaries between Transmission Operators or Reliability Coordinators. If the resynchronization cannot be completed as expected the Reliability Coordinator shall utilize its restoration plan strategies to facilitate resynchronization. *[Violation Risk Factor = High] [Time Horizon = Real-time Operations]*		The EOP SDT agrees with the IERP to retire EOP-006-2, Requirement R8 as "a logical action that does not require a standard." The EOP SDT recommends retirement of EOP-006-2, Requirement R8 under Criterion A (Overreaching Criterion). In addition, by adding the language: "develop and implement" to EOP-006-3, Requirement R1, EOP-006-2, Requirement R8, is redundant to EOP-006-3, Requirement R1.
EOP-006-2, Requirement R8, Part 8.1 **8.1.** Each Reliability Coordinator shall request each Transmission Operator identified in its restoration plan and each Generator Operator identified in the Transmission Operators' restoration plans to participate in a drill, exercise, or simulation at least once every 24 calendar months.	EOP-006-2, Requirement R8, Part 8.1 **8.1.** Each Reliability Coordinator shall request each Transmission Operator identified in its restoration plan and each Generator Operator identified in the Transmission Operators' restoration plans to participate in a drill, exercise, or simulation at least once every two calendar years.	"Two calendar years" was revised to "24 calendar months" for consistency in the standards. This provides flexibility for training schedules and equipment availability. This revision to Draft 3 of the standard is a revision back to the original language of EOP-005-2.

Standard: EOP-006-3		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
EOP-006-2, Requirement R9 **R9.** Each Reliability Coordinator shall include within its operations training program, annual System restoration training for its System Operators to assure the proper execution of its restoration plan. This training program shall address the following: *[Violation Risk Factor = Medium] [Time Horizon = Operations Planning]*	EOP-006-3, Requirement R7 **R7.** Each Reliability Coordinator shall include within its operations training program annual System restoration training for its System Operators. This training program shall address the following: *[Violation Risk Factor = Medium] [Time Horizon = Operations Planning]*	"To assure the proper execution of its restoration plan" was removed because it added no additional value; the entire standard is based upon using your restoration plan when needed.

Standard:EOP-008-2		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
EOP-008-1, Requirement R1, Part 1.1 **1.1.** The location and method of implementation for providing backup functionality for the time it takes to restore the primary control center functionality.	EOP-008-2, Requirement R1, Part 1.1 **1.1** The location and method of implementation for providing backup functionality.	To provide clarification: Requirement R1, Part 1.1, it would be difficult to establish a timing requirement to restore primary control center functionality, given the range of events that could render the primary control center inoperable. The revision to Requirement R1, Part 1.1. prevents a tertiary (i.e., already included in EOP-008-2, Requirements R3 and R4).
EOP-008-1, Requirement R1, Part 1.2.2 **1.2.2** Data communications.	EOP-008-2, Requirement R1, Part 1.2.2 **1.2.2** Data exchange capabilities.	The phrase "data exchange capabilities" is replacing “data communications in Requirement R1, Part 1.2.2 for the following reasons: COM-001-1 (no longer enforceable) enforceable covered telecommunications, which could be viewed as covering both voice and data. COM-001-2.1 (currently enforceable) focuses on "Interpersonal Communication" and does not address data. The topic of data exchange has historically been covered in the IRO / TOP Standards.

Standard:EOP-008-2		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
		Most recently the revisions to the standards that came out of Project 2014-03 Revisions to TOP and IRO Standards use the phrase "data exchange capabilities." The rationale included in the IRO-002-4 standard discusses the need to retain the topic of data exchange, as it is not addressed in the COM standards.
EOP-008-1, Requirement R1, Part 1.2.3 **1.2.3** Voice communications.	EOP-008-2, Requirement R1, Part 1.2.3 **1.2.3** Interpersonal Communications.	The COM-001-2 standard, along with the defined term "Interpersonal Communications" became effective 10/1/2015, therefore the EOP SDT agreed that this defined term should be used.
EOP-008-1, Requirement R3 **R3.** Each Reliability Coordinator shall have a backup control center facility (provided through its own dedicated backup facility or at another entity's control center staffed with certified Reliability Coordinator operators when control has been transferred to the backup facility) that provides the functionality required for maintaining compliance with all Reliability Standards that depend on primary control center functionality. To avoid	EOP-008-2, Requirement R3 **R3.** Each Reliability Coordinator shall have a backup control center facility (provided through its own dedicated backup facility or at another entity's control center staffed with certified Reliability Coordinator operators when control has been transferred to the backup facility) that provides the functionality required for maintaining compliance with all Reliability Standards that are applicable to the primary control center functionality. To avoid	Revised "depend on" to "applicable to." The intent was not to have the backup facility "depend on" the functions of the primary control center to meet compliance with Reliability Standards, rather to meet compliance for Reliability Standards that were met with the primary control center functionality need to be met with the backup control center functionality.

Standard:EOP-008-2		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
requiring a tertiary facility, a backup facility is not required during: • Planned outages of the primary or backup facilities of two weeks or less • Unplanned outages of the primary or backup facilities	requiring a tertiary facility, a backup facility is not required during: Planned outages of the primary or backup facilities of two weeks or less • Unplanned outages of the primary or backup facilities	
EOP-008-1, Measure M3 **M3.** Each Reliability Coordinator shall provide dated evidence that it has a backup control center facility (provided through its own dedicated backup facility or at another entity's control center staffed with certified Reliability Coordinator operators when control has been transferred to the backup facility) that provides the functionality required for maintaining compliance with all Reliability Standards that depend on primary control center functionality in accordance with Requirement R3.	EOP-008-2, Measure M3 **M3.** Each Reliability Coordinator shall provide dated evidence that it has a backup control center facility (provided through its own dedicated backup facility or at another entity's control center staffed with certified Reliability Coordinator operators when control has been transferred to the backup facility) that provides the functionality required for maintaining compliance with all Reliability Standards that are applicable to the primary control center functionality in accordance with Requirement R3.	Revised "depend on" to "applicable to the." The intent was not to have the backup facility "depend on" the functions of the primary control center to meet compliance with Reliability Standards, rather to meet compliance for Reliability Standards that were met with the primary control center functionality need to be met with the backup control center functionality. The revision aligned the measure to the requirement.
EOP-008-1, Requirement R4	EOP-008-1, Requirement R4	Revised "depend on" to "are applicable to." The intent was not to have the backup facility "depend on" the functions of the

Standard:EOP-008-2		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
R4. Each Balancing Authority and Transmission Operator shall provide dated evidence that its Balancing Authority and Transmission Operator shall have backup functionality (provided either through a facility or contracted services staffed by applicable certified operators when control has been transferred to the backup functionality location) that includes monitoring, control, logging, and alarming sufficient for maintaining compliance with all Reliability Standards that depend on a Balancing Authority and Transmission Operator's primary control center functionality respectively. To avoid requiring tertiary functionality, backup functionality is not required during: • Planned outages of the primary or backup functionality of two weeks or less • Unplanned outages of the primary or backup functionality.	**R4.** Each ach Balancing Authority and Transmission Operator shall have backup functionality (provided either through a facility or contracted services staffed by applicable certified operators when control has been transferred to the backup functionality location) that includes monitoring, control, logging, and alarming sufficient for maintaining compliance with all Reliability Standards that are applicable to a Balancing Authority's and Transmission Operator's primary control center functionality. To avoid requiring tertiary functionality, backup functionality is not required during: • Planned outages of the primary or backup functionality of two weeks or less • Unplanned outages of the primary or backup functionality	primary control center to meet compliance with Reliability Standards, rather to meet compliance for Reliability Standards that were met with the primary control center functionality need to be met with the backup control center functionality.
EOP-008-1, Measure M4 **M4.** Each Balancing Authority and Transmission Operator shall provide dated	EOP-008-1, Measure M4 **M4.** Each Balancing Authority and Transmission Operator shall provide dated	Revised "depend on" to "are applicable to." The intent was not to have the backup facility "depend on" the functions of the primary control center to meet compliance

Standard:EOP-008-2		
Requirement in Approved Standard	**Translation to New Standard or Other Action**	**Description and Change Justification**
evidence that its backup functionality (provided either through a facility or contracted services staffed by applicable certified operators when control has been transferred to the backup functionality location) includes monitoring, control, logging, and alarming sufficient for maintaining compliance with all Reliability Standards that depend on a Balancing Authority or Transmission Operator's primary control center functionality respectively in accordance with Requirement R4.	evidence that its backup functionality (provided either through a facility or contracted services staffed by applicable certified operators when control has been transferred to the backup functionality location) includes monitoring, control, logging, and alarming sufficient for maintaining compliance with all Reliability Standards that are applicable to a Balancing Authority's or Transmission Operator's primary control center functionality in accordance with Requirement R4.	with Reliability Standards, rather to meet compliance for Reliability Standards that were met with the primary control center functionality need to be met with the backup control center functionality. The revision aligned the measure to the requirement.