

BPA Transmission Operator Agreement Applicable NERC Requirements

10/12/16 Draft Version of TOP Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance Reference/background info)	Enforcable Dates
BAL-005-0.2b	R 1	All generation, transmission, and load operating within an Interconnection must be included within the metered boundaries of a BA Area.	Mandatory	GOP, LSE, TOP		Is all generation, transmission, and load operating within an Interconnection included within the metered boundaries of a BA Area? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/13/2012
BAL-005-0.2b	R 1.2	Each TOP with transmission facilities operating in an Interconnection shall ensure that those transmission facilities are included within the metered boundaries of a BA Area.	Mandatory	TOP		Is one or more of the following statements true? a) BPA does not have transmission facilities operating in an Interconnection. b) BPA ensure that those transmission facilities are included within the metered boundaries of a BA Area. (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/13/2012
COM-001-1.1	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.	Mandatory	TOP		Does BPA 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? (If yes, attach evidence and reference page, section, and paragraph numbers)	5/13/2009 (retires 6/30/2016)
COM-001-2.1	R 3	Each Transmission Operator shall have Interpersonal Communication capability with the following entities (unless the Transmission Operator detects a failure of its Interpersonal Communication capability in which case Requirement R10 shall apply):	Mandatory	TOP		Describe in narrative form how BPA meets compliance with this requirement as a TOP: Each Transmission Operator shall have Interpersonal Communication capability with the following entities (unless the Transmission Operator detects a failure of its Interpersonal Communication capability in which case Requirement R10 shall apply):	11/13/2015
COM-001-2.1	R 3.1	Its Reliability Coordinator.	Mandatory	TOP		Does BPA as a TOP have Interpersonal Communication capability with its Reliability Coordinator (unless the Transmission Operator detects a failure of its Interpersonal Communication capability in which case Requirement R10 shall apply)?	11/13/2015

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COM-001-2.1	R 3.2	Each Balancing Authority within its Transmission Operator Area.	Mandatory	TOP		Does BPA as a TOP have Interpersonal Communication capability with each EXTERNAL Balancing Authority within its Transmission Operator Area (unless the Transmission Operator detects a failure of its Interpersonal Communication capability in which case Requirement R10 shall apply)?	11/13/2015
COM-001-2.1	R 3.3	Each Distribution Provider within its Transmission Operator Area.	Mandatory	TOP		Does BPA as a TOP have Interpersonal Communication capability with each Distribution Provider within its Transmission Operator Area (unless the Transmission Operator detects a failure of its Interpersonal Communication capability in which case Requirement R10 shall apply)?	11/13/2015
COM-001-2.1	R 3.4	Each Generator Operator within its Transmission Operator Area.	Mandatory	TOP		Does BPA as a TOP have Interpersonal Communication capability with each Generator Operator within its Transmission Operator Area (unless the Transmission Operator detects a failure of its Interpersonal Communication capability in which case Requirement R10 shall apply)?	11/13/2015
COM-001-2.1	R 3.5	Each adjacent Transmission Operator synchronously connected.	Mandatory	TOP		Does BPA as a TOP have Interpersonal Communication capability with each EXTERNAL adjacent Transmission Operator synchronously connected (unless the Transmission Operator detects a failure of its Interpersonal Communication capability in which case Requirement R10 shall apply)?	11/13/2015
COM-001-2.1	R 3.6	Each adjacent Transmission Operator asynchronously connected.	Mandatory	TOP		Does BPA as a TOP have Interpersonal Communication capability with each EXTERNAL adjacent Transmission Operator asynchronously connected (unless the Transmission Operator detects a failure of its Interpersonal Communication capability in which case Requirement R10 shall apply)?	11/13/2015

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COM-001-2.1	R 4	Each Transmission Operator shall designate an Alternative Interpersonal Communication capability with the following entities:	Mandatory	TOP		Describe, in narrative form how BPA meets compliance with this requirement as a TOP: Each Transmission Operator shall designate an Alternative Interpersonal Communication capability with the following entities: 4.1 Its Reliability Coordinator. 4.2 Each Balancing Authority within its Transmission Operator Area. 4.3 Each adjacent Transmission Operator synchronously connected. 4.4 Each adjacent Transmission Operator asynchronously connected.	11/13/2015
COM-001-2.1	R 4.1	Its Reliability Coordinator.	Mandatory	TOP		Does BPA as a TOP designate an Alternative Interpersonal Communication capability with its Reliability Coordinator?	11/13/2015
COM-001-2.1	R 4.2	Each Balancing Authority within its Transmission Operator Area.	Mandatory	TOP		Does BPA as a TOP designate an Alternative Interpersonal Communication capability with each EXTERNAL Balancing Authority within its Transmission Operator Area?	11/13/2015
COM-001-2.1	R 4.3	Each adjacent Transmission Operator synchronously connected.	Mandatory	TOP		Does BPA as a TOP designate an Alternative Interpersonal Communication capability with each EXTERNAL adjacent Transmission Operator synchronously connected?	11/13/2015
COM-001-2.1	R 4.4	Each adjacent Transmission Operator asynchronously connected.	Mandatory	TOP		Does BPA as a TOP designate an Alternative Interpersonal Communication capability with each EXTERNAL adjacent Transmission Operator asynchronously connected?	11/13/2015

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COM-001-2.1	R 9	Each Reliability Coordinator, Transmission Operator, and Balancing Authority shall test its Alternative Interpersonal Communication capability at least once each calendar month. If the test is unsuccessful, the responsible entity shall initiate action to repair or designate a replacement Alternative Interpersonal Communication capability within 2 hours.	Mandatory	BA, RC, TOP		Q1. Does BPA test its Alternative Interpersonal Communication capability at least once each calendar month? Q2. Is one of the following statements true? All of BPA's tests of its Alternative Interpersonal Communication capability were successful this period OR One or more of BPA's tests of its Alternative Interpersonal Communication capability were unsuccessful this period, and BPA initiated action to repair within 2 hours. OR One or more of BPA's tests of its Alternative Interpersonal Communication capability were unsuccessful this period, and BPA designated a replacement Alternative Interpersonal Communication capability within 2 hours.	11/13/2015

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COM-001-2.1	R10	Each Reliability Coordinator, Transmission Operator, and Balancing Authority shall notify entities as identified in Requirements R1, R3, and R5, respectively within 60 minutes of the detection of a failure of its Interpersonal Communication capability that lasts 30 minutes or longer.	Mandatory	BA, RC, TOP		Is one of the following statements true? BPA did not detect any failures of its Interpersonal Communication capability lasting 30 minutes or longer this period. OR BPA detected one or more failures of its Interpersonal Communication capability lasting 30 minutes or longer this period, and BPA notified: its Reliability Coordinator, each EXTERNAL Balancing Authority within its Transmission Operator Area, each EXTERNAL adjacent Balancing Authority, each Distribution Provider within its Transmission Operator Area, each Distribution Provider within its Balancing Authority Area, each Generator Operator within its Transmission Operator Area, each Generator Operator that operates Facilities within its Balancing Authority Area each EXTERNAL adjacent Transmission Operator synchronously connected, and each EXTERNAL adjacent Transmission Operator asynchronously connected, AND each EXTERNAL Transmission Operator that operates Facilities within its Balancing Authority Area?	11/13/2015
COM-002-4	R1.	Each Balancing Authority, Reliability Coordinator, and Transmission Operator shall develop documented communications protocols for its operating personnel that issue and receive Operating Instructions. The protocols shall, at a minimum: [Please see the standard for more information]	Mandatory	BA, RC, TOP		Has BPA developed documented communications protocols for its operating personnel that issue and receive Operating Instructions and the protocols have a minimum of all of the following:	7/1/2016
COM-002-4	R 1.1	Require its operating personnel that issue and receive an oral or written Operating Instruction to use the English language, unless agreed to otherwise. An alternate language may be used for internal operations.	Mandatory	BA, RC, TOP		Require its operating personnel that issue and receive an oral or written Operating Instruction to use the English language unless agreed to otherwise? An alternate language may be used for internal operations?	7/1/2016

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COM-002-4	R 1.2	Require its operating personnel that issue an oral two-party, person-to-person Operating Instruction to take one of the following actions: Confirm the receiver's response if the repeated information is correct. Reissue the Operating Instruction if the repeated information is incorrect or if requested by the receiver. Take an alternative action if a response is not received or if the Operating Instruction was not understood by the receiver.	Mandatory	BA, RC, TOP		Require its operating personnel that issue an oral two-party, person-to-person Operating Instruction to confirm the receiver's response if the repeated information is correct, reissue the operation instruction if the repeated information is incorrect and take an alternative action if a response is not received or if the Operating Instruction was not understood by the receiver?	7/1/2016
COM-002-4	R 1.3	Require its operating personnel that receive an oral two-party, person-to-person Operating Instruction to take one of the following actions: Repeat, not necessarily verbatim, the Operating Instruction and receive confirmation from the issuer that the response was correct. Request that the issuer reissue the Operating Instruction.	Mandatory	BA, RC, TOP		Require its operating personnel that receive an oral two-party, person-to-person Operating Instruction to repeat, not necessarily verbatim, the Operating Instruction and receive confirmation from the issuer that the response was correct and request that the issuer reissue the operating instruction if not understood?	7/1/2016
COM-002-4	R 1.4	Require its operating personnel that issue a written or oral single-party to multiple-party burst Operating Instruction to confirm or verify that the Operating Instruction was received by at least one receiver of the Operating Instruction.	Mandatory	BA, RC, TOP		Require its operating personnel that issue a written or oral single-party to multiple-party burst Operating Instruction to confirm or verify that the Operating Instruction was received by at least one receiver of the Operating Instruction?	7/1/2016
COM-002-4	R 1.5	Specify the instances that require time identification when issuing an oral or written Operating Instruction and the format for that time identification.	Mandatory	BA, RC, TOP		Specify the instances that require time identification when issuing an oral or written Operating Instruction and the format for that time identification?	7/1/2016
COM-002-4	R 1.6	Specify the nomenclature for Transmission interface Elements and Transmission interface Facilities when issuing an oral or written Operating Instruction.	Mandatory	BA, RC, TOP		Specify the nomenclature for Transmission interface Elements and Transmission interface Facilities when issuing an oral or written Operating Instruction?	7/1/2016

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COM-002-4	R2.	Each Balancing Authority, Reliability Coordinator, and Transmission Operator shall conduct initial training for each of its operating personnel responsible for the Real-time operation of the interconnected Bulk Electric System on the documented communications protocols developed in Requirement R1 prior to that individual operator issuing an Operating Instruction.	Mandatory	BA, RC, TOP		Has BPA conducted initial training for each of its operating personnel responsible for the Realtime operation of the interconnected Bulk Electric System on the documented communications protocols developed in Requirement R1 prior to that individual operator issuing an Operating Instruction?	7/1/2016
COM-002-4	R4.	Each Balancing Authority, Reliability Coordinator, and Transmission Operator shall at least once every twelve (12) calendar months: [Please see the standard for more information]	Mandatory	BA, RC, TOP		See R4.1 and R4.2	7/1/2016
COM-002-4	R 4.1	Assess adherence to the documented communications protocols in Requirement R1 by its operating personnel that issue and receive Operating Instructions, provide feedback to those operating personnel and take corrective action, as deemed appropriate by the entity, to address deviations from the documented protocols.	Mandatory	BA, RC, TOP		Does BPA assess adherence to the documented communications protocols in Requirement R1 by its operating personnel that issue and receive Operating Instructions, provide feedback to those operating personnel and take corrective action, as deemed appropriate by the entity, to address deviations from the documented protocols at least once every twelve (12) calendar months?	7/1/2016
COM-002-4	R 4.2	Assess the effectiveness of its documented communications protocols in Requirement R1 for its operating personnel that issue and receive Operating Instructions and modify its documented communication protocols, as necessary.	Mandatory	BA, RC, TOP		Does BPA assess the effectiveness of its documented communications protocols in Requirement R1 for its operating personnel that issue and receive Operating Instructions at least once every twelve (12) calendar months and modify its documented communication protocols, as necessary?	7/1/2016

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COM-002-4	R5.	Each Balancing Authority, Reliability Coordinator, and Transmission Operator that issues an oral two-party, person-to-person Operating Instruction during an Emergency, excluding written or oral single-party to multiple-party burst Operating Instructions, shall either: <ul style="list-style-type: none"> • Confirm the receiver's response if the repeated information is correct (in accordance with Requirement R6). • Reissue the Operating Instruction if the repeated information is incorrect or if requested by the receiver, or • Take an alternative action if a response is not received or if the Operating Instruction was not understood by the receiver. 	Mandatory	BA, RC, TOP		When issuing an oral two-party, person-to-person Operating Instruction during an Emergency, excluding written or oral single-party to multiple-party burst Operating Instructions, does BPA either: <ol style="list-style-type: none"> 1. Confirm the receiver's response if the repeated information is correct (in accordance with Requirement R6); OR 2. Reissue the Operating Instruction if the repeated information is incorrect or if requested by the receiver; OR 3. Take an alternative action if a response is not received or if the Operating Instruction was not understood by the receiver? 	7/1/2016
COM-002-4	R6.	Each Balancing Authority, Distribution Provider, Generator Operator, and Transmission Operator that receives an oral two-party, person-to-person Operating Instruction during an Emergency, excluding written or oral single-party to multiple-party burst Operating Instructions, shall either: <ul style="list-style-type: none"> • Repeat, not necessarily verbatim, the Operating Instruction and receive confirmation from the issuer that the response was correct, or • Request that the issuer reissue the Operating Instruction. 	Mandatory	BA, DP, GOP, TOP		When receiving an oral two-party, person-to-person Operating Instruction during an Emergency, excluding written or oral single-party to multiple-party burst Operating Instructions, does BPA repeat, not necessarily verbatim, the Operating Instruction and receive confirmation from the issuer that the response was correct or request that the issuer reissue the Operating Instruction?	7/1/2016
COM-002-4	R7.	Each Balancing Authority, Reliability Coordinator, and Transmission Operator that issues a written or oral single-party to multiple-party burst Operating Instruction during an Emergency shall confirm or verify that the Operating Instruction was received by at least one receiver of the Operating Instruction.	Mandatory	BA, RC, TOP		When issuing a written or oral single-party to multiple-party burst Operating Instruction during an Emergency, does BPA confirm or verify that the Operating Instruction was received by at least one receiver of the Operating Instruction? N/A as BPA does not issue these types of Operating Instructions. BPA will include this in the Communication Protocol.	7/1/2016
EOP-001-2.1b	R 2	Each TOP and BA shall:	Mandatory	BA, TOP		Narrative -	7/1/2013

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EOP-001-2.1b	R 2.1	Develop, maintain, and implement a set of plans to mitigate operating emergencies for insufficient generating capacity.	Mandatory	BA, TOP		Does BPA have and maintain a set of plans to mitigate operating emergencies for insufficient generating capacity? (If Yes, attach evidence and reference page, section, and paragraph numbers)	7/1/2013
EOP-001-2.1b	R 2.1	Develop, maintain, and implement a set of plans to mitigate operating emergencies for insufficient generating capacity.	Mandatory	BA, TOP		Does BPA implement a set of plans to mitigate operating emergencies for insufficient generating capacity? (If yes, attach evidence and reference page, section, and paragraph numbers)	7/1/2013
EOP-001-2.1b	R 2.2	Develop, maintain, and implement a set of plans to mitigate operating emergencies on the transmission system.	Mandatory	BA, TOP		Does BPA implement a set of plans to mitigate operating emergencies on the transmission system? (If yes, attach evidence and reference page, section, and paragraph numbers)	7/1/2013
EOP-001-2.1b	R 2.2	Develop, maintain, and implement a set of plans to mitigate operating emergencies on the transmission system.	Mandatory	BA, TOP		Does BPA have and maintain a set of plans to mitigate operating emergencies on the transmission system? (If Yes, attach evidence and reference page, section, and paragraph numbers)	7/1/2013
EOP-001-2.1b	R 2.3	Develop, maintain, and implement a set of plans for load shedding.	Mandatory	BA, TOP		Does BPA implement a set of plans for load shedding? (If yes, attach evidence and reference page, section, and paragraph numbers)	7/1/2013
EOP-001-2.1b	R 2.3	Develop, maintain, and implement a set of plans for load shedding.	Mandatory	BA, TOP		Does BPA have and maintain a set of plans for load shedding? (If Yes, attach evidence and reference page, section, and paragraph numbers)	7/1/2013
EOP-001-2.1b	R 3	Each TOP and BA shall have emergency plans that will enable it to mitigate operating emergencies. At a minimum, TOP and BA emergency plans shall include:	Mandatory	BA, TOP		Narrative -	7/1/2013
EOP-001-2.1b	R 3.1	Communications protocols to be used during emergencies.	Mandatory	BA, TOP		Do BPA's emergency plans include communications protocols to be used during emergencies? (If Yes, attach evidence and reference page, section, and paragraph numbers)	7/1/2013

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EOP-001-2.1b	R 3.2	A list of controlling actions to resolve the emergency. Load reduction, in sufficient quantity to resolve the emergency within NERC-established timelines, shall be one of the controlling actions.	Mandatory	BA, TOP		Are BOTH of the following statements TRUE? a) BPA's emergency plans include a list of controlling actions to resolve the emergency? AND b) At least one of the controlling actions listed in BPA's emergency plans is load reduction in sufficient quantity to resolve the emergency within NERC-established timelines?	7/1/2013
EOP-001-2.1b	R 3.3	The tasks to be coordinated with and among adjacent TOPs and Balancing Authorities.	Mandatory	BA, TOP		Do BPA's emergency plans include the tasks to be coordinated with and among adjacent TOPs and Balancing Authorities? (If Yes, attach evidence and reference page, section, and paragraph numbers)	7/1/2013
EOP-001-2.1b	R 3.4	Staffing levels for the emergency.	Mandatory	BA, TOP		Do BPA's emergency plans include staffing levels for the emergency? (If Yes, attach evidence and reference page, section, and paragraph numbers)	7/1/2013
EOP-001-2.1b	R 4	Each TOP and BA shall include the applicable elements in Attachment 1-EOP-001 when developing an emergency plan.	Mandatory	BA, TOP		Do BPA's emergency plans include the applicable elements in Attachment 1-EOP-001-0 (see Standard)? (If Yes, attach evidence and reference page, section, and paragraph numbers)	7/1/2013
EOP-001-2.1b	R 5	The TOP and BA shall annually review and update each emergency plan. The TOP and BA shall provide a copy of its updated emergency plans to its RC and to neighboring TOPs and Balancing Authorities.	Mandatory	BA, TOP		Q1: Does BPA review and update each emergency plan annually? (If Yes, attach evidence and reference page, section, and paragraph numbers) Q2: Does BPA provide a copy of the updated emergency plans to the RC and to neighboring TOPs and Balancing Authorities? (If Yes, attach evidence and reference page, section, and paragraph numbers)	7/1/2013
EOP-001-2.1b	R 6	The TOP and BA shall coordinate its emergency plans with other TOPs and Balancing Authorities as appropriate. This coordination includes the following steps, as applicable:	Mandatory	BA, TOP		Does BPA coordinate its emergency plans with other Transmission Operators and Balancing Authorities? (If yes, attach evidence and reference page, section, and paragraph numbers)	7/1/2013
EOP-001-2.1b	R 6.1	The TOP and BA shall establish and maintain reliable communications between interconnected systems.	Mandatory	BA, TOP		Does BPA establish and maintain reliable communications between interconnected systems? (If Yes, attach evidence and reference page, section, and paragraph numbers)	7/1/2013

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EOP-001-2.1b	R 6.2	The TOP and BA shall arrange new interchange agreements to provide for emergency capacity or energy transfers if existing agreements cannot be used.	Mandatory	BA, TOP		Does BPA arrange new interchange agreements to provide for emergency capacity or energy transfers if existing agreements cannot be used? (If Yes, attach evidence and reference page, section, and paragraph numbers)	7/1/2013
EOP-001-2.1b	R 6.3	The TOP and BA shall coordinate transmission and generator maintenance schedules to maximize capacity or conserve the fuel in short supply. (This includes water for hydro generators.)	Mandatory	BA, TOP		Does BPA coordinate transmission and generator maintenance schedules to maximize capacity or conserve the fuel in short supply, including water for hydro generators? (If Yes, attach evidence and reference page, section, and paragraph numbers)	7/1/2013
EOP-001-2.1b	R 6.4	The TOP and BA shall arrange deliveries of electrical energy or fuel from remote systems through normal operating channels.	Mandatory	BA, TOP		Does BPA arrange deliveries of electrical energy or fuel from remote systems through normal operating channels? (If Yes, attach evidence and reference page, section, and paragraph numbers)	7/1/2013
EOP-003-2	R1	After taking all other remedial steps, a TOP or BA operating with insufficient generation or transmission capacity shall shed customer load rather than risk an uncontrolled failure of components or cascading outages of the Interconnection.	Mandatory	BA, TOP		Is one or more of the following statements true? a) BPA not experienced a situation in which all other remedial steps failed to result in sufficient generation and transmission capacity. b) When, after taking all other remedial steps, there is insufficient generation or transmission capacity, BPA sheds customer load rather than risk an uncontrolled failure of components or cascading outages of the Interconnection. (If Yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2013

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EOP-003-2	R2	Each TOP shall establish plans for automatic load shedding for undervoltage conditions if the TOP or its associated Transmission Planner(s) or Planning Coordinator(s) determine that an under-voltage load shedding scheme is required.	Mandatory	TOP		Is one of the following statements true? A. BPA has established plans for automatic load shedding for undervoltage conditions because BPA, its Transmission Planner, or its Planning Coordinator determined that an under-voltage load shedding scheme is required. OR B. BPA, its Transmission Planner, or its Planning Coordinator determined that an under-voltage load shedding scheme is NOT required.	10/1/2013
EOP-003-2	R3	Each TOP and BA shall coordinate load shedding plans, excluding automatic under-frequency load shedding plans, among other interconnected TOPs and Balancing Authorities.	Mandatory	BA, TOP		Does BPA coordinate load shedding plans, excluding automatic under-frequency load shedding plans, among other interconnected Transmission Operators and Balancing Authorities?	10/1/2013
EOP-003-2	R4	A TOP shall consider one or more of these factors in designing an automatic under voltage load shedding scheme: voltage level, rate of voltage decay, or power flow levels.	Mandatory	TOP		Does BPA consider one or more of the following factors in designing an automatic load shedding scheme: frequency, rate of frequency decay, voltage level, rate of voltage decay, or power flow levels? (If Yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2013
EOP-003-2	R5	A TOP or BA shall implement load shedding, excluding automatic under-frequency load shedding, in steps established to minimize the risk of further uncontrolled separation, loss of generation, or system shutdown.	Mandatory	BA, TOP		Does BPA implement load shedding, excluding automatic under-frequency load shedding, excluding automatic under-frequency load shedding plans, in steps established to minimize the risk of further uncontrolled separation, loss of generation, or system shutdown?	10/1/2013

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EOP-003-2	R6	After a TOP or BA Area separates from the Interconnection, if there is insufficient generating capacity to restore system frequency following automatic underfrequency load shedding, the TOP or BA shall shed additional load.	Mandatory	BA, TOP		Is one or more of the following statements true? a) BPA not separated from the interconnection when there was insufficient generating capacity to restore system frequency following automatic underfrequency load shedding. b) After BPA separates from the Interconnection, if there is insufficient generating capacity to restore system frequency following automatic underfrequency load shedding, BPA sheds additional load? (If Yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2013
EOP-003-2	R7	The TOP shall coordinate automatic undervoltage load shedding throughout their areas with tripping of shunt capacitors, and other automatic actions that will occur under abnormal voltage, or power flow conditions.	Mandatory	TOP		Does BPA coordinate automatic load shedding throughout its area with underfrequency isolation of generating units, tripping of shunt capacitors, and other automatic actions that will occur under abnormal frequency, voltage, or power flow conditions?	10/1/2013
EOP-003-2	R8	Each TOP or BA shall have plans for operator controlled manual load shedding to respond to real-time emergencies. The TOP or BA shall be capable of implementing the load shedding in a timeframe adequate for responding to the emergency.	Mandatory	BA, TOP		Q1: Does BPA have plans for operator-controlled manual load shedding to respond to real-time emergencies? (If Yes, attach evidence and reference page, section, and paragraph numbers) Q2: Is BPA capable of implementing the load shedding in a timeframe adequate for responding to an emergency? (If Yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2013

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EOP-004-2	R 1	Each Responsible Entity shall have an event reporting Operating Plan in accordance with EOP-004-2 Attachment 1 that includes the protocol(s) for reporting to the Electric Reliability Organization and other organizations (e.g., the Regional Entity, company personnel, the Responsible Entity's RC, law enforcement, or governmental authority).	Mandatory	BA, DP, GO, GOP, RC, TO TOP		Does BPA have an event reporting Operating Plan in accordance with EOP-004-2 Attachment 1 that includes the protocol(s) for reporting to the Electric Reliability Organization and other organizations (e.g., the Regional Entity, company personnel, the Responsible Entity's RC, law enforcement, or governmental authority). Event Types (See Column "Entity with Reporting Responsibility in EOP-004-2 Attachment 1") <ul style="list-style-type: none"> • Damage or destruction of a BES Facility • Physical threats to a BES Facility • Physical threats to a BES control center • BES Emergency requiring public appeal for load reduction • BES Emergency requiring system-wide voltage reduction • BES Emergency requiring manual firm load shedding • BES Emergency resulting in automatic firm load shedding • Voltage deviation on a Facility • IROL Violation (all Interconnections) or SOL Violation for Major WECC Transfer Paths (WECC only) • Loss of firm load • System separation (islanding) • Generation loss • Complete loss of off-site power to a nuclear generating plant (grid supply) • Transmission loss • Unplanned BES control center evacuation • Complete loss of voice communication capability 	1/1/2014

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EOP-004-2	R 2	Each Responsible Entity shall report events per their Operating Plan within 24 hours of recognition of meeting an event type threshold for reporting or by the end of the next business day if the event occurs on a weekend (which is recognized to be 4 PM local time on Friday to 8 AM Monday local time).	Mandatory	BA, DP, GO, GOP, RC, TO TOP		Is one of the following statements true? A. BPA did not have any events reportable under this standard during the current compliance period. OR B. BPA reported all events under this standard per its Operating Plan within 24 hours of recognition of meeting an event type threshold for reporting or by the end of the next business day if the event occurred on a weekend (which is recognized to be 4 PM local time on Friday to 8 AM Monday local time)?	1/1/2014
EOP-004-2	R 3	Each Responsible Entity shall validate all contact information contained in the Operating Plan pursuant to Requirement R1 each calendar year.	Mandatory	BA, DP, GO, GOP, RC, TO TOP		Does BPA validate all contact information contained in the Operating Plan pursuant to Requirement R1 each calendar year.	1/1/2014
EOP-004-3	R1.	Each Responsible Entity shall have an event reporting Operating Plan in accordance with EOP-004-2-3 Attachment 1 that includes the protocol(s) for reporting to the Electric Reliability Organization and other organizations (e.g., the Regional Entity, company personnel, the Responsible Entity's Reliability Coordinator, law enforcement, or governmental authority).	FERC Approved	BA, DP, GO, GOP, RC, TO, TOP		Not developed yet - future RSIP R1 appears to be the same in Version 2 - Resolver question will likely remain the same. Is one of the following statements true? A. BPA did not have any events reportable under this standard during the current compliance period. OR B. BPA reported all events under this standard per its Operating Plan within 24 hours of recognition of meeting an event type threshold for reporting or by the end of the next business day if the event occurred on a weekend (which is recognized to be 4 PM local time on Friday to 8 AM Monday local time)?	Mandatory as of 4/1/2017

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
EOP-004-3	R2.	Each Responsible Entity shall report events per their Operating Plan within 24 hours of recognition of meeting an event type threshold for reporting or by the end of the next business day if the event occurs on a weekend (which is recognized to be 4 PM local time on Friday to 8 AM Monday local time).	FERC Approved	BA, DP, GO, GOP, RC, TO, TOP		<p>Not developed yet - future RSIP</p> <p>R2 appears to be the same in Version 2 - Resolver question will likely be the same:</p> <p>Is one of the following statements true? A. BPA did not have any events reportable under this standard during the current compliance period. OR B. BPA reported all events under this standard per its Operating Plan within 24 hours of recognition of meeting an event type threshold for reporting or by the end of the next business day if the event occurred on a weekend (which is recognized to be 4 PM local time on Friday to 8 AM Monday local time)?</p>	Mandatory as of 4/1/2017
EOP-004-3	R3.	Each Responsible Entity shall validate all contact information contained in the Operating Plan pursuant to Requirement R1 each calendar year.	FERC Approved	BA, DP, GO, GOP, RC, TO, TOP		<p>Not developed yet - future RSIP</p> <p>R3 appears to be the same in version 2 - Resolver question will likely remain the same:</p> <p>Does BPA validate all contact information contained in the Operating Plan pursuant to Requirement R1 each calendar year?</p>	Mandatory as of 4/1/2017

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
EOP-005-2	R 1	Each TOP shall have a restoration plan approved by its RC. The restoration plan shall allow for restoring the TOP'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 TOP's System. The restoration plan shall include: [Violation Risk Factor = High] [Time Horizon = Operations Planning]	Mandatory	TOP		Q1: Does BPA have a restoration plan approved by its RC? Q2: Does BPA have a restoration plan that allows for restoring the TOP'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 TOP's System? The restoration plan shall include all of the following: R1.1. Strategies for system restoration that are coordinated with the RC's high level strategy for restoring the Interconnection. R1.2. A description of how all Agreements or mutually agreed upon procedures or protocols for off-site power requirements of nuclear power plants, including priority of restoration, will be fulfilled during System restoration. R1.3. Procedures for restoring interconnections with other TOPs under the direction of the RC. R1.4. Identification of each Blackstart Resource and its characteristics including but not limited to the following: the name of the Blackstart Resource, location, megawatt and megavar capacity, and type of unit. R1.5. Identification of Cranking Paths and initial switching requirements between each Blackstart Resource and the unit(s) to be started. R1.6. Identification of acceptable operating voltage and frequency limits during restoration. R1.7.	7/1/2013
EOP-005-2	R 1.1	Strategies for system restoration that are coordinated with the RC's high level strategy for restoring the Interconnection.	Mandatory	TOP		See R1	7/1/2013
EOP-005-2	R 1.2	A description of how all Agreements or mutually agreed upon procedures or protocols for off-site power requirements of nuclear power plants, including priority of restoration, will be fulfilled during System restoration.	Mandatory	TOP		See R1	7/1/2013

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EOP-005-2	R 1.3	Procedures for restoring interconnections with other TOPs under the direction of the RC.	Mandatory	TOP		See R1	7/1/2013
EOP-005-2	R 1.4	Identification of each Blackstart Resource and its characteristics including but not limited to the following: the name of the Blackstart Resource, location, megawatt and megavar capacity, and type of unit.	Mandatory	TOP		See R1	7/1/2013
EOP-005-2	R 1.5	Identification of Cranking Paths and initial switching requirements between each Blackstart Resource and the unit(s) to be started.	Mandatory	TOP		See R1	7/1/2013
EOP-005-2	R 1.6	Identification of acceptable operating voltage and frequency limits during restoration.	Mandatory	TOP		See R1	7/1/2013
EOP-005-2	R 1.7	Operating Processes to reestablish connections within the TOP's System for areas that have been restored and are prepared for reconnection.	Mandatory	TOP		See R1	7/1/2013
EOP-005-2	R 1.8	Operating Processes to restore Loads required to restore the System, such as station service for substations, units to be restarted or stabilized, the Load needed to stabilize generation and frequency, and provide voltage control.	Mandatory	TOP		See R1	7/1/2013
EOP-005-2	R 1.9	Operating Processes for transferring authority back to the BA in accordance with the RC's criteria.	Mandatory	TOP		See R1	7/1/2013
EOP-005-2	R 2	Each TOP 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 = Lower] [Time Horizon = Operations Planning]	Mandatory	TOP		Does BPA 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?	7/1/2013
EOP-005-2	R 3	Each TOP shall review its restoration plan and submit it to its RC annually on a mutually agreed predetermined schedule. [Violation Risk Factor = Medium] [Time Horizon = Operations Planning]	Mandatory	TOP		Q1: Does BPA review its restoration plan annually? Q2: Is one of the following statements TRUE? a) BPA submitted its restoration plan to its RC annually on a mutually agreed predetermined schedule? OR b) BPA confirmed annually on a predetermined schedule to its RC that it has reviewed its restoration plan and no changes were necessary.	7/1/2013

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
EOP-005-2	R 4	Each TOP shall update its restoration plan within 90 calendar days after identifying any unplanned permanent System modifications, or prior to implementing a planned BES modification, that would change the implementation of its restoration plan. [Violation Risk Factor = Medium] [Time Horizon = Operations Planning]	Mandatory	TOP		Is one of the following statements true? a) BPA submitted its revised restoration plan to its RC for approval within the same 90 calendar day period as having either implemented a planned BES modification or identified an unplanned permanent System modification that would change the implementation of its restoration plan. OR b) BPA did not either implement a planned BES modification or identify an unplanned permanent System modification that would change the implementation of the restoration plan.	7/1/2013
EOP-005-2	R 4.1	Each TOP shall submit its revised restoration plan to its RC for approval within the same 90 calendar day period.	Mandatory	TOP		See R4	7/1/2013
EOP-005-2	R 5	Each TOP shall have a copy of its latest RC 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]	Mandatory	TOP		Does BPA have a copy of its latest RC 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?	7/1/2013
EOP-005-2	R 6	Each TOP 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]	Mandatory	TOP		Are ALL of the following statements TRUE? a) At least once every 5 years, as a TOP, BPA verified through analysis of actual events, steady state and dynamic simulations, or testing that its restoration plan accomplishes its intended function. AND b) Such analysis, simulations or testing verified ALL of the following: R6.1. The capability of Blackstart Resources to meet the Real and Reactive Power requirements of the Cranking Paths and the dynamic capability to supply initial Loads. R6.2. The location and magnitude of Loads required to control voltages and frequency within acceptable operating limits. R6.3. The capability of generating resources required to control voltages and frequency within acceptable operating limits.	7/1/2013

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
EOP-005-2	R 6.1	The capability of Blackstart Resources to meet the Real and Reactive Power requirements of the Cranking Paths and the dynamic capability to supply initial Loads.	Mandatory	TOP		See R6	7/1/2013
EOP-005-2	R 6.2	The location and magnitude of Loads required to control voltages and frequency within acceptable operating limits.	Mandatory	TOP		See R6	7/1/2013
EOP-005-2	R 6.3	The capability of generating resources required to control voltages and frequency within acceptable operating limits.	Mandatory	TOP		See R6	7/1/2013
EOP-005-2	R 7	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 TOP shall implement its restoration plan. If the restoration plan cannot be executed as expected the TOP shall utilize its restoration strategies to facilitate restoration. [Violation Risk Factor = High] [Time Horizon = Real-time Operations]	Mandatory	TOP		Q1: Is one of the following statements TRUE? a) BPA did not experience a Disturbance in which one or more areas of the BES shut down and the use of Blackstart Resources was required to restore the shut down area to service. OR b) Following each 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, did BPA implement its restoration plan? Q2: Is one of the following statements TRUE? a) BPA did not experience a situation in which the restoration plan could not be executed as expected. OR b) When the restoration plan could not be executed as expected, BPA utilized its restoration strategies to facilitate restoration.	7/1/2013
EOP-005-2	R 8	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 TOP shall resynchronize area(s) with neighboring TOP area(s) only with the authorization of the RC or in accordance with the established procedures of the RC. [Violation Risk Factor = High] [Time Horizon = Real-time Operations]	Mandatory	TOP		Is one of the following statements TRUE? a) BPA did not experience a Disturbance in which one or more areas of the BES shut down and the use of Blackstart Resources was required to restore the shut down area to service. OR b) Following all Disturbances in which one or more areas of the BES shut down and the use of Blackstart Resources was required to restore the shut down area to service, BPA resynchronized area(s) with neighboring TOP area(s) only with the authorization of the RC or in accordance with the established procedures of the RC.	7/1/2013

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EOP-005-2	R 9	Each TOP shall have Blackstart Resource testing requirements to verify that each Blackstart Resource is capable of meeting the requirements of its restoration plan. These Blackstart Resource testing requirements shall include: [Violation Risk Factor = Medium] [Time Horizon = Operations Planning]	Mandatory	TOP		Are ALL of the following statements TRUE? a) As a TOP, BPA has Blackstart Resource testing requirements to verify that each Blackstart Resource is capable of meeting the requirements of its restoration plan. AND b) These Blackstart Resource testing requirements include: R9.1 The frequency of testing such that each Blackstart Resource is tested at least once every three calendar years. R9.2 A list of required tests including: R9.2.1 The ability to start the unit when isolated with no support from the BES or when designed to remain energized without connection to the remainder of the System. R9.2.2 The ability to energize a bus. If it is not possible to energize a bus during the test, the testing entity must affirm that the unit has the capability to energize a bus such as verifying that the breaker close coil relay can be energized with the voltage and frequency monitor controls disconnected from the synchronizing circuits. R9.3 The minimum duration of each of the required tests.	7/1/2013
EOP-005-2	R 9.1	The frequency of testing such that each Blackstart Resource is tested at least once every three calendar years.	Mandatory	TOP		See R9	7/1/2013
EOP-005-2	R 9.2	A list of required tests including:	Mandatory	TOP		See R9	7/1/2013
EOP-005-2	R 9.2.1	The ability to start the unit when isolated with no support from the BES or when designed to remain energized without connection to the remainder of the System.	Mandatory	TOP		See R9	7/1/2013
EOP-005-2	R 9.2.2	The ability to energize a bus. If it is not possible to energize a bus during the test, the testing entity must affirm that the unit has the capability to energize a bus such as verifying that the breaker close coil relay can be energized with the voltage and frequency monitor controls disconnected from the synchronizing circuits.	Mandatory	TOP		See R9	7/1/2013
EOP-005-2	R 9.3	The minimum duration of each of the required tests.	Mandatory	TOP		See R9	7/1/2013

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EOP-005-2	R10	Each TOP 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]	Mandatory	TOP		Are ALL of the following statements TRUE? a) BPA includes within its operations training program, annual System restoration training for its System Operators to assure the proper execution of its restoration plan. AND b) BPA's operations training training program includes training on ALL of the following: R10.1 System restoration plan including coordination with the RC and Generator Operators included in the restoration plan. R10.2 Restoration priorities. R10.3 Building of cranking paths. R10.4 Synchronizing (re-energized sections of the System).	7/1/2013
EOP-005-2	R10.1	System restoration plan including coordination with the RC and Generator Operators included in the restoration plan.	Mandatory	TOP		See R10	7/1/2013
EOP-005-2	R10.2	Restoration priorities.	Mandatory	TOP		See R10	7/1/2013
EOP-005-2	R10.3	Building of cranking paths.	Mandatory	TOP		See R10	7/1/2013
EOP-005-2	R10.4	Synchronizing (re-energized sections of the System).	Mandatory	TOP		See R10	7/1/2013
EOP-005-2	R11	Each TOP, 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 TOP's restoration plan that are outside of their normal tasks. [Violation Risk Factor = Medium] [Time Horizon = Operations Planning]	Mandatory	DP, TO, TOP		Does BPA provide a minimum of two hours of System restoration training every two calendar years to its field switching personnel identified as performing unique tasks associated with BPA's restoration plan that are outside of their normal tasks?	7/1/2013
EOP-005-2	R12	Each TOP shall participate in its RC's restoration drills, exercises, or simulations as requested by its RC. [Violation Risk Factor = Medium] [Time Horizon = Operations Planning]	Mandatory	TOP		Does BPA participate in its RC's restoration drills, exercises, or simulations as requested by its RC?	7/1/2013
EOP-005-2	R13	Each TOP and each Generator Operator with a Blackstart Resource shall have written Blackstart Resource Agreements or mutually agreed upon procedures or protocols, specifying the terms and conditions of their arrangement. Such Agreements shall include references to the Blackstart Resource testing requirements. [Violation Risk Factor = Medium] [Time Horizon = Operations Planning]	Mandatory	GOP, TOP		Does BPA have written Blackstart Resource Agreements or mutually agreed upon procedures or protocols, specifying the terms and conditions of their arrangement with Generator Operators providing Blackstart Resources; including references to the Blackstart Resource testing requirements.?	7/1/2013

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EOP-008-1	R1	Each RC, BA, and TOP shall have a current Operating Plan describing the manner in which it continues to meet its functional obligations with regard to the reliable operations of the BES in the event that its primary control center functionality is lost. This Operating Plan for backup functionality shall include the following, at a minimum: [Violation Risk Factor = Medium] [Time Horizon = Operations Planning]	Mandatory	BA, RC, TOP		Does BPA have a current Operating Plan describing the manner in which it continues to meet its TOP and BA obligations with regard to the reliable operations of the BES in the event that its primary control center functionality is lost?	7/1/2013
EOP-008-1	R1.1	The location and method of implementation for providing backup functionality for the time it takes to restore the primary control center functionality.	Mandatory	BA, RC, TOP		Does BPA have a current Operating Plan describing the manner in which it continues to meet its TOP and BA obligations with regard to the reliable operations of the BES in the event that its primary control center functionality is lost?	7/1/2013
EOP-008-1	R1.2	A summary description of the elements required to support the backup functionality. These elements shall include, at a minimum:	Mandatory	BA, RC, TOP		Does BPA's Operating Plan include a summary description of the elements required to support the backup functionality necessary to support its TOP and BA obligations?	7/1/2013
EOP-008-1	R1.2.1	Tools and applications to ensure that System Operators have situational awareness of the BES.	Mandatory	BA, RC, TOP		Does BPA's Operating Plan summary description include the tools and applications to ensure that System Operators have situational awareness of the BES, as necessary to meet its TOP and BA obligations?	7/1/2013
EOP-008-1	R1.2.2	Data communications.	Mandatory	BA, RC, TOP		Does BPA's Operating Plan include a summary description of data communications?	7/1/2013
EOP-008-1	R1.2.3	Voice communications.	Mandatory	BA, RC, TOP		Does BPA's Operating Plan include a summary description of voice communications?	7/1/2013
EOP-008-1	R1.2.4	Power source(s).	Mandatory	BA, RC, TOP		Does BPA's Operating Plan include a summary description of power source(s)?	7/1/2013
EOP-008-1	R1.2.5	Physical and cyber security.	Mandatory	BA, RC, TOP		Does BPA's Operating Plan include a summary description of physical and cyber security?	7/1/2013
EOP-008-1	R1.3	An Operating Process for keeping the backup functionality consistent with the primary control center.	Mandatory	BA, RC, TOP		Does BPA's Operating Plan include an Operating Process for keeping the backup functionality consistent with the primary control center?	7/1/2013
EOP-008-1	R1.4	Operating Procedures, including decision authority, for use in determining when to implement the Operating Plan for backup functionality.	Mandatory	BA, RC, TOP		Does BPA's Operating Plan include Operating Procedures, including decision authority, for use in determining when to implement the Operating Plan for backup functionality?	7/1/2013

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EOP-008-1	R1.5	A transition period between the loss of primary control center functionality and the time to fully implement the backup functionality that is less than or equal to two hours.	Mandatory	BA, RC, TOP		Does BPA's Operating Plan include a transition period between the loss of primary control center functionality and the time to fully implement the backup functionality that is less than or equal to two hours?	7/1/2013
EOP-008-1	R1.6	An Operating Process describing the actions to be taken during the transition period between the loss of primary control center functionality and the time to fully implement backup functionality elements identified in Requirement R1, Part 1.2. The Operating Process shall include at a minimum:	Mandatory	BA, RC, TOP		Does BPA's Operating Plan include an Operating Process describing the actions to be taken during the transition period between the loss of primary control center functionality and the time to fully implement backup functionality elements identified in Requirement R1, Part 1.2?	7/1/2013
EOP-008-1	R1.6.1	A list of all entities to notify when there is a change in operating locations.	Mandatory	BA, RC, TOP		Does BPA's Operating Process include a list of all entities to notify when there is a change in operating locations?	7/1/2013
EOP-008-1	R1.6.2	Actions to manage the risk to the BES during the transition from primary to backup functionality as well as during outages of the primary or backup functionality.	Mandatory	BA, RC, TOP		Does BPA's Operating Process include actions to manage the risk to the BES during the transition from primary to backup functionality as well as during outages of the primary or backup functionality?	7/1/2013
EOP-008-1	R1.6.3	Identification of the roles for personnel involved during the initiation and implementation of the Operating Plan for backup functionality.	Mandatory	BA, RC, TOP		Does BPA's Operating Process include the identification of the roles for personnel involved during the initiation and implementation of the Operating Plan for backup functionality?	7/1/2013
EOP-008-1	R2	Each RC, BA, and TOP shall have a copy of its current Operating Plan for backup functionality available at its primary control center and at the location providing backup functionality. [Violation Risk Factor = Lower] [Time Horizon = Operations Planning]	Mandatory	BA, RC, TOP		Does BPA have a copy of its current Operating Plan for backup functionality available at its primary control center and at the location providing backup functionality?	7/1/2013

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EOP-008-1	R4	"Each BA and TOP 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 BA and TOP's primary control center functionality respectively. To avoid requiring tertiary functionality, backup functionality is not required during: [Violation Risk Factor = Medium] [Time Horizon = Operations Planning] • Planned outages of the primary or backup functionality of two weeks or less • Unplanned outages of the primary or backup functionality"	Mandatory	BA, TOP		Q1: Does BPA have backup functionality that is provided either through a facility or contracted services staffed by applicable certified operators when control has been transferred to the backup functionality location? Note: To avoid requiring tertiary functionality, backup functionality is not required during either a) Planned outages of the primary or backup functionality of two weeks or less, or b) Unplanned outages of the primary or backup functionality. Q2: Does BPA have backup functionality that includes monitoring sufficient for maintaining compliance with all Reliability Standards that depend on a BA and TOP's primary control center functionality respectively? Q3: Does BPA have backup functionality that includes control sufficient for maintaining compliance with all Reliability Standards that depend on a BA and TOP's primary control center functionality respectively? Q4: Does BPA have backup functionality that includes logging sufficient for maintaining compliance with all Reliability Standards that depend on a BA and TOP's primary control center functionality respectively? Q5: Does BPA have backup functionality that includes alarming sufficient for maintaining compliance with all Reliability Standards that depend on a BA and TOP's primary control center functionality respectively?	7/1/2013
EOP-008-1	R5	Each RC, BA, and TOP, shall annually review and approve its Operating Plan for backup functionality. [Violation Risk Factor = Lower] [Time Horizon = Operations Planning]	Mandatory	BA, RC, TOP		Does BPA annually review and approve its Operating Plan for backup functionality?	7/1/2013
EOP-008-1	R5.1	An update and approval of the Operating Plan for backup functionality shall take place within sixty calendar days of any changes to any part of the Operating Plan described in Requirement R1.	Mandatory	BA, RC, TOP		Does BPA update and approve the Operating Plan for backup functionality within sixty calendar days of any changes to any part of the Operating Plan described in Requirement R1?	7/1/2013

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EOP-008-1	R6	Each RC, BA, and TOP shall have primary and backup functionality that do not depend on each other for the control center functionality required to maintain compliance with Reliability Standards. [Violation Risk Factor = Medium] [Time Horizon = Operations Planning]	Mandatory	BA, RC, TOP		Does BPA have primary and backup functionality that do not depend on each other for the control center functionality required to maintain compliance with Reliability Standards?	7/1/2013
EOP-008-1	R7	Each RC, BA, and TOP shall conduct and document results of an annual test of its Operating Plan that demonstrates: [Violation Risk Factor = Medium] [Time Horizon = Operations Planning]	Mandatory	BA, RC, TOP		Does BPA conduct and document results of a test of its Operating Plan on at least an annual basis?	7/1/2013
EOP-008-1	R7.1	The transition time between the simulated loss of primary control center functionality and the time to fully implement the backup functionality.	Mandatory	BA, RC, TOP		Do BPA's documented results of its annual tests of its Operating Plan include the transition time between the simulated loss of primary control center functionality and the time to fully implement the backup functionality?	7/1/2013
EOP-008-1	R7.2	The backup functionality for a minimum of two continuous hours.	Mandatory	BA, RC, TOP		Do BPA's documented results of its annual tests of its Operating Plan include demonstration that backup functionality was sustained for a minimum of two continuous hours?	7/1/2013
EOP-008-1	R8	Each RC, BA, and TOP that has experienced a loss of its primary or backup functionality and that anticipates that the loss of primary or backup functionality will last for more than six calendar months shall provide a plan to its Regional Entity within six calendar months of the date when the functionality is lost, showing how it will re-establish primary or backup functionality. [Violation Risk Factor = Medium] [Time Horizon = Operations Planning]	Mandatory	BA, RC, TOP		Did BPA EITHER: a) not experience a loss of its primary or backup functionality that was anticipated to last for more than six calendar months OR b) Did BPA provide a plan to its Regional Entity within six calendar months of the date when the functionality was lost, showing how it will re-establish primary or backup functionality?	7/1/2013

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
EOP-010-1	R3	Each TOP shall develop, maintain, and implement a GMD Operating Procedure or Operating Process to mitigate the effects of GMD events on the reliable operation of its respective system. At a minimum, the Operating Procedure or Operating Process shall include: 3.1 Steps or tasks to receive space weather information. 3.2 System Operator actions to be initiated based on predetermined conditions. 3.3 The conditions for terminating the Operating Procedure or Operating Process. [Violation Risk Factor: Medium] [Time Horizon: Long-term Planning, Operations Planning, Same-day Operations, Real-Time Operations]	Mandatory	Mandatory		Does BPA implement a GMD Operating Procedure or Operating Process to mitigate the effects of GMD events on the reliable operation of its respective system, AND does the Procedure or Process include all of the following elements? 3.1 Steps or tasks to receive space weather information? 3.2 System Operator actions to be initiated based on predetermined conditions? 3.3 The conditions for terminating the Operating Procedure or Operating Process?	4/1/2015
EOP-010-1	R3	Each TOP shall develop, maintain, and implement a GMD Operating Procedure or Operating Process to mitigate the effects of GMD events on the reliable operation of its respective system. At a minimum, the Operating Procedure or Operating Process shall include: 3.1 Steps or tasks to receive space weather information. 3.2 System Operator actions to be initiated based on predetermined conditions. 3.3 The conditions for terminating the Operating Procedure or Operating Process. [Violation Risk Factor: Medium] [Time Horizon: Long-term Planning, Operations Planning, Same-day Operations, Real-Time Operations]	Mandatory	Mandatory		Does BPA develop and maintain a GMD Operating Procedure or Operating Process to mitigate the effects of GMD events on the reliable operation of its respective system, AND does the Procedure or Process include all of the following elements? 3.1 Steps or tasks to receive space weather information? 3.2 System Operator actions to be initiated based on predetermined conditions? 3.3 The conditions for terminating the Operating Procedure or Operating Process?	4/1/2015

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
EOP-011-1	R1.	Each Transmission Operator shall develop, maintain, and implement one or more Reliability Coordinator-reviewed Operating Plan(s) to mitigate operating Emergencies in its Transmission Operator Area. The Operating Plan(s) shall include the following, as applicable:	FERC Approved	BA, RC, TOP		<p>Not developed yet.</p> <p>Implementation Approach: No Change: Current emergency operations plan satisfies requirements: Current Operating Plan is a hard-copy, internally reviewed (annually) plan. Developed and maintained by TOC and implemented by TOR. Implemented through DSOs and dispatcher training. Extreme weather addressed via DSO 150. Roles and responsibilities directed by senior dispatcher. Single responsibility for development, maintenance, and implementation. Narrate extreme weather cause/address as load management. Roles and responsibilities specifically stated and defined. Gap analysis documented between sub-requirements and plan sections.</p>	Mandatory as of 4/1/2017
EOP-011-1	R1.1.	Roles and responsibilities for activating the Operating Plan(s)	FERC Approved	BA, RC, TOP		See R1	Mandatory as of 4/1/2017
EOP-011-1	R1.2.	Processes to prepare for and mitigate Emergencies including:	FERC Approved	BA, RC, TOP		See R1	Mandatory as of 4/1/2017
EOP-011-1	R1.2.1.	Notification to its Reliability Coordinator, to include current and projected conditions, when experiencing an operating Emergency;	FERC Approved	BA, RC, TOP		See R1	Mandatory as of 4/1/2017
EOP-011-1	R1.2.2.	Cancellation or recall of Transmission and generation outages;	FERC Approved	BA, RC, TOP		See R1	Mandatory as of 4/1/2017
EOP-011-1	R1.2.3.	Transmission system reconfiguration;	FERC Approved	BA, RC, TOP		See R1	Mandatory as of 4/1/2017
EOP-011-1	R1.2.4.	Redispatch of generation request;	FERC Approved	BA, RC, TOP		See R1	Mandatory as of 4/1/2017
EOP-011-1	R1.2.5.	Provisions for operator-controlled manual Load shedding that minimizes the overlap with automatic Load shedding and are capable of being implemented in a timeframe adequate for mitigating the Emergency; and	FERC Approved	BA, RC, TOP		See R1	Mandatory as of 4/1/2017
EOP-011-1	R1.2.6.	Reliability impacts of extreme weather conditions.	FERC Approved	BA, RC, TOP		See R1	Mandatory as of 4/1/2017

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EOP-011-1	R2.2.8.	Provisions for operator-controlled manual Load shedding that minimizes the overlap with automatic Load shedding and are capable of being implemented in a timeframe adequate for mitigating the Emergency; and	FERC Approved	BA, RC, TOP		Not developed yet. Implementation Approach: No Change: Single hard-copy plan for TO and BA, developed and maintained by TOC and implemented by TOR. Annually reviewed internally. Implemented through DSOs and dispatcher training. Extreme weather addressed in DSO 150. Roles and responsibilities directed by senior dispatcher.	Mandatory as of 4/1/2017
EOP-011-1	R4.	Each Transmission Operator and Balancing Authority shall address any reliability risks identified by its Reliability Coordinator pursuant to Requirement R3 and resubmit its Operating Plan(s) to its Reliability Coordinator within a time period specified by its Reliability Coordinator.	FERC Approved	BA, RC, TOP		Not developed yet. Implementation Approach: BPA will submit plan to RC 90 days prior or on RC request (whichever is earlier) to allow time for RC to review, provide feedback, address issues, and resubmit.	Mandatory as of 4/1/2017
FAC-014-2	R 2	The TOP shall establish SOLs (as directed by its RC) for its portion of the RC Area that are consistent with its RC's SOL Methodology.	Mandatory	TOP		Has BPA established SOLs (as directed by WECC) for its portion of the Reliability Coordinator Area that are consistent with WECC's SOL Methodology? (If yes, attach evidence and reference page, section, and paragraph numbers)	4/29/2009
FAC-014-2	R 5.2	The TOP shall provide any SOLs it developed to its RC and to the Transmission Service Providers that share its portion of the RC Area.	Mandatory	TOP		Has BPA provided SOLs to WECC and to the Transmission Service Providers that share the portion of WECC Area? (If yes, attach evidence and reference page, section, and paragraph numbers)	4/29/2009
IRO-001-1.1	R 8	TOPs, Balancing Authorities, Generator Operators, Transmission Service Providers, Load-Serving Entities, and Purchasing-Selling Entities shall comply with RC directives unless such actions would violate safety, equipment, or regulatory or statutory requirements. Under these circumstances, the TOP, BA, Generator Operator, Transmission Service Provider, Load-Serving Entity, or Purchasing-Selling Entity shall immediately inform the RC of the inability to perform the directive so that the RC may implement alternate remedial actions.	Mandatory	BA, GOP, LSE, PSE, TOP, TSP		Q1: Does BPA comply with all WECC directives unless such actions would violate safety, equipment, or regulatory or statutory requirements? (If Yes, attach evidence and reference page, section, and paragraph) Q2: If BPA cannot comply with WECC directives for safety, equipment, regulatory or statutory reasons, does BPA immediately notify WECC? (If Yes, attach evidence and reference page, section, and paragraph)	5/13/2009

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
IRO-001-4	R2.	Each Transmission Operator, Balancing Authority, Generator Operator, and Distribution Provider shall comply with its Reliability Coordinator's Operating Instructions unless compliance with the Operating Instructions cannot be physically implemented or unless such actions would violate safety, equipment, regulatory, or statutory requirements.	FERC Approved			Not developed yet - future RSIP Implementation Approach: Need to update templates (DART) and DSOs to address Operating Instructions received by the RC rather than Directives.	Mandatory as of 4/1/2017
IRO-001-4	R3.	Each Transmission Operator, Balancing Authority, Generator Operator, and Distribution Provider shall inform its Reliability Coordinator of its inability to perform the Operating Instruction issued by its Reliability Coordinator in Requirement R1.	FERC Approved			Not developed yet - future RSIP Implementation Approach: Need to update DSOs to address Operating Instructions received by the RC that BPA is unable to perform.	Mandatory as of 4/1/2017
IRO-004-2	R 1	Each TOP, BA, and Transmission Service Provider shall comply with the directives of its RC based on the next day assessments in the same manner in which it would comply during real time operating events.	Mandatory	BA, TOP, TSP		Is one of the following statements true? A. BPA received no reliability directives from its RC to address potential SOL or IROL violations during this period; OR B. BPA received one or more SOL or IROL directives from the RC during this period, AND BPA complied with the WECC directives based on the next day assessments in the same compliance manner as during real time operating events. (If Yes, attach evidence and reference page, section, and paragraph)	10/1/2011
IRO-005-3.1a	R 5	Each RC shall monitor system frequency and its Balancing Authorities' performance and direct any necessary rebalancing to return to CPS and DCS compliance. The TOPs and Balancing Authorities shall utilize all resources, including firm load shedding, as directed by its RC to relieve the emergent condition.	Mandatory	BA, RC, TOP		Is this Requirement Not Applicable to BPA because BPA is not registered as a RC?	9/13/2012
IRO-005-3.1a	R 9	Whenever a Special Protection System that may have an inter-BA, or inter-TOP impact (e.g. could potentially affect transmission flows resulting in a SOL or IROL violation) is armed, the RCs shall be aware of the impact of the operation of that Special Protection System on inter-area flows. The TOP shall immediately inform the RC of the status of the Special Protection System including any degradation or potential failure to operate as expected.	Mandatory	RC, TOP		Is one or more of the following statements true? a) BPA does not have a Special Protection System that may have an inter-BA, or inter- TOP impact, or b) If a Special Protection System that may have an inter-BA, or inter- TOP impact is armed, BPA immediately informs WECC of the status of the Special Protection System including any degradation or failure to operate as expected. (If Yes, attach evidence and reference page, section, and paragraph)	9/13/2012

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IRO-005-3.1a	R10	In instances where there is a difference in derived limits, the TOPs, Balancing Authorities, Generator Operators, Transmission Service Providers, Load-Serving Entities, and Purchasing-Selling Entities shall always operate the Bulk Electric System to the most limiting parameter.	Mandatory	BA, GO, LSE, PSE, TOP, TSP		Effective October 1, 2011, is one or more of the following statements true? a) BPA did not experience a situation in which there was a difference in derived limits, or b) In instances where there is a difference in derived limits, BPA operates the Bulk Electric System to the most limiting parameter? (If Yes, attach evidence and reference page, section, and paragraph)	9/13/2012
IRO-010-1a	R 3	Each BA, Generator Owner, Generator Operator, Interchange Authority, Load-serving Entity, RC, TOP, and Transmission Owner shall provide data and information, as specified, to the RC(s) with which it has a reliability relationship. (Violation Risk Factor: Medium) (Time Horizon: Operations Planning; Same-day Operations; Real-time Operations)	Mandatory	BA, GO, GOP, IA, LSE, RC, TO, TOP		Q1: In its capacity as a BA, TOP, and Transmission Owner, does BPA provide data and information to the RC(s) with which it has a reliability relationship, in accordance with the RC's specifications for data to build and maintain models to support Real-time monitoring, Operational Planning Analyses, and Real-time Assessments of its RC Area? (If Yes, attached evidence and reference page, section, and paragraph numbers)	10/1/2011
IRO-010-1a	R 3	Each BA, Generator Owner, Generator Operator, Interchange Authority, Load-serving Entity, RC, TOP, and Transmission Owner shall provide data and information, as specified, to the RC(s) with which it has a reliability relationship. (Violation Risk Factor: Medium) (Time Horizon: Operations Planning; Same-day Operations; Real-time Operations)	Mandatory	BA, GO, GOP, IA, LSE, RC, TO, TOP		Q2: In its capacity as a LSE for the pump generators at the Grand Coulee project, does BPA provide data and information to the RC(s) with which it has a reliability relationship, in accordance with the RC's specifications for data to build and maintain models to support Real-time monitoring, Operational Planning Analyses, and Real-time Assessments of its RC Area? (If Yes, attached evidence and reference page, section, and paragraph numbers)	10/1/2011
IRO-010-2	R3.	Each Reliability Coordinator, Balancing Authority, Generator Owner, Generator Operator, Load-Serving Entity, Transmission Operator, Transmission Owner, and Distribution Provider receiving a data specification in Requirement R2 shall satisfy the obligations of the documented specifications using:	FERC Approved	BA, DP, GO, GOP, LSE, RC, TO, TOP		Not developed yet - future RSIP Implementation Approach: This is largely already done at BPA. Need to develop a process for resolving data conflicts. There is still an opportunity to improve internal controls related to this process.	Mandatory as of 4/1/2017

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IRO-010-2	R3.1.	A mutually agreeable format.	FERC Approved	BA, DP, GO, GOP, LSE, RC, TO, TOP		Not developed yet - future RSIP Implementation Approach: This is largely already done at BPA. Need to develop a process for resolving data conflicts. There is still an opportunity to improve internal controls related to this process.	Mandatory as of 4/1/2017
IRO-010-2	R3.2.	A mutually agreeable process for resolving data conflicts.	FERC Approved	BA, DP, GO, GOP, LSE, RC, TO, TOP		Not developed yet - future RSIP Implementation Approach: This is largely already done at BPA. Need to develop a process for resolving data conflicts. There is still an opportunity to improve internal controls related to this process.	Mandatory as of 4/1/2017
IRO-010-2	R3.3.	A mutually agreeable security protocol.	FERC Approved	BA, DP, GO, GOP, LSE, RC, TO, TOP		Not developed yet - future RSIP Implementation Approach: This is largely already done at BPA. Need to develop a process for resolving data conflicts. There is still an opportunity to improve internal controls related to this process.	Mandatory as of 4/1/2017
IRO-017-1	R2.	Each Transmission Operator and Balancing Authority shall perform the functions specified in its Reliability Coordinator's outage coordination process.	FERC Approved	BA, TOP		Not developed yet - future RSIP Implementation Approach: Need to develop processes and procedures to address what is listed in the RC's outage coordination process from R1. The magnitude of work for this requirement could vary greatly based on the R1 process.	Mandatory as of 4/1/2017

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MOD-001-1a	R1	Each TOP shall select one of the methodologies ¹ listed below for calculating Available Transfer Capability (ATC) or Available Flowgate Capability (AFC) for each ATC Path per time period identified in R2 for those Facilities within its Transmission operating area: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning] The Area Interchange Methodology, as described in MOD-028 The Rated System Path Methodology, as described in MOD-029 The Flowgate Methodology, as described in MOD-030	Mandatory	TOP		Describe, in narrative form, how you meet compliance with this requirement: Each TOP shall select one of the methodologies listed below for calculating Available Transfer Capability (ATC) or Available Flowgate Capability (AFC) for each ATC Path per time period identified in R2 for those Facilities within its Transmission operating area: ? The Area Interchange Methodology, as described in MOD-028 ? The Rated System Path Methodology, as described in MOD-029 ? The Flowgate Methodology, as described in MOD-030	4/1/2011
MOD-001-1a	R1	Each TOP shall select one of the methodologies ¹ listed below for calculating Available Transfer Capability (ATC) or Available Flowgate Capability (AFC) for each ATC Path per time period identified in R2 for those Facilities within its Transmission operating area: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning] The Area Interchange Methodology, as described in MOD-028 The Rated System Path Methodology, as described in MOD-029 The Flowgate Methodology, as described in MOD-030	Mandatory	TOP		Identify the ATC methodology(s) used for calculating ATC or AFC for ATC Paths, per time period identified in R2, for those Facilities within your Transmission operating area.	4/1/2011
MOD-001-1a	R1	Each TOP shall select one of the methodologies ¹ listed below for calculating Available Transfer Capability (ATC) or Available Flowgate Capability (AFC) for each ATC Path per time period identified in R2 for those Facilities within its Transmission operating area: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning] The Area Interchange Methodology, as described in MOD-028 The Rated System Path Methodology, as described in MOD-029 The Flowgate Methodology, as described in MOD-030	Mandatory	TOP		Q4: Does BPA identify all of the paths where it has curtailed service?	4/1/2011

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MOD-001-1a	R1	Each TOP shall select one of the methodologies ¹ listed below for calculating Available Transfer Capability (ATC) or Available Flowgate Capability (AFC) for each ATC Path per time period identified in R2 for those Facilities within its Transmission operating area: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning] The Area Interchange Methodology, as described in MOD-028 The Rated System Path Methodology, as described in MOD-029 The Flowgate Methodology, as described in MOD-030	Mandatory	TOP		Q5: Does BPA identify all of its BA to BA interconnection paths?	4/1/2011
MOD-001-1a	R1	Each TOP shall select one of the methodologies ¹ listed below for calculating Available Transfer Capability (ATC) or Available Flowgate Capability (AFC) for each ATC Path per time period identified in R2 for those Facilities within its Transmission operating area: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning] The Area Interchange Methodology, as described in MOD-028 The Rated System Path Methodology, as described in MOD-029 The Flowgate Methodology, as described in MOD-030	Mandatory	TOP		Q6: Does BPA identify all of the paths where the BPA has denied service, including denied service for subgrid issues?	4/1/2011
MOD-001-1a	R1	Each TOP shall select one of the methodologies ¹ listed below for calculating Available Transfer Capability (ATC) or Available Flowgate Capability (AFC) for each ATC Path per time period identified in R2 for those Facilities within its Transmission operating area: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning] The Area Interchange Methodology, as described in MOD-028 The Rated System Path Methodology, as described in MOD-029 The Flowgate Methodology, as described in MOD-030	Mandatory	TOP		Q7: Does BPA identify all of the paths requested by customers?	4/1/2011

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MOD-001-1a	R1	Each TOP shall select one of the methodologies ¹ listed below for calculating Available Transfer Capability (ATC) or Available Flowgate Capability (AFC) for each ATC Path per time period identified in R2 for those Facilities within its Transmission operating area: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning] The Area Interchange Methodology, as described in MOD-028 The Rated System Path Methodology, as described in MOD-029 The Flowgate Methodology, as described in MOD-030	Mandatory	TOP		Q8: Does BPA create a list showing which of the following methodologies it uses for calculating Available Transfer Capability (ATC) or Available Flowgate Capability (AFC) for each ATC Path (all ATC Paths do not have to use the same methodology and no particular ATC Path must use the same methodology for all time periods) per time period identified in R2 for those Facilities within its Transmission operating area: a) the Area Interchange Methodology, as described in MOD-028; b) the Rated System Path Methodology, as described in MOD-029; or c) the Flowgate Methodology, as described in MOD-030?	4/1/2011
MOD-001-1a	R6	When calculating Total Transfer Capability (TTC) or Total Flowgate Capability (TFC) the TOP shall use assumptions no more limiting than those used in the planning of operations for the corresponding time period studied, providing such planning of operations has been performed for that time period. [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		When calculating Total Transfer Capability (TTC) or Total Flowgate Capability (TFC), does BPA use assumptions no more limiting than those used in the planning of operations for the corresponding time period studied, if such planning of operations has been performed for that time period? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011
MOD-008-1	R 1	Each TOP shall prepare and keep current a TRM Implementation Document (TRMID) that includes, as a minimum, the following information: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		Is it true that this Requirement and its Sub-Requirements are Not Applicable because BPA does not maintain a Transmission Reliability Margin (TRM)? (If yes, attach Not Applicable Memo + evidence and reference page, section, and paragraph numbers.)	4/1/2011

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MOD-008-1	R 1.1	Identification of (on each of its respective ATC Paths or Flowgates) each of the following components of uncertainty if used in establishing TRM, and a description of how that component is used to establish a TRM value: -Aggregate Load forecast. -Load distribution uncertainty. -Forecast uncertainty in Transmission system topology (including, but not limited to, forced or unplanned outages and maintenance outages). -Allowances for parallel path (loop flow) impacts. -Allowances for simultaneous path interactions. -Variations in generation dispatch (including, but not limited to, forced or unplanned outages, maintenance outages and location of future generation). -Short-term System Operator response (Operating Reserve actions). -Reserve sharing requirements. -Inertial response and frequency bias.	Mandatory	TOP		See R1	4/1/2011
MOD-008-1	R 1.2	The description of the method used to allocate TRM across ATC Paths or Flowgates.	Mandatory	TOP		See R1	4/1/2011
MOD-008-1	R 1.3	The identification of the TRM calculation used for the following time periods:	Mandatory	TOP		See R1	4/1/2011
MOD-008-1	R 1.3.1	Same day and real-time.	Mandatory	TOP		See R1	4/1/2011
MOD-008-1	R 1.3.2	Day-ahead and pre-schedule.	Mandatory	TOP		See R1	4/1/2011
MOD-008-1	R 1.3.3	Beyond day-ahead and pre-schedule, up to thirteen months ahead.	Mandatory	TOP		See R1	4/1/2011

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MOD-008-1	R 2	Each TOP shall only use the components of uncertainty from R1.1 to establish TRM, and shall not include any of the components of Capacity Benefit Margin (CBM). Transmission capacity set aside for reserve sharing agreements can be included in TRM. [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		Q1: Does BPA only use the components of uncertainty listed in MOD-008 R1.1 to establish TRM? (If yes, attach evidence and reference page, section, and paragraph numbers.) Q2. Does BPA NOT include any of the components of Capacity Benefit Margin (CBM) as components in the TRM calculation? (If yes, attach evidence and reference page, section, and paragraph numbers.) Q3. Is one of the following statements true? a) BPA includes any capacity set aside for reserve sharing agreements in TRM; or b) BPA does not include any capacity set aside for reserve sharing agreements in TRM when Not Applicable to BPA (If yes, attach Not Applicable Memo + evidence and reference page, section, and paragraph numbers)	4/1/2011
MOD-008-1	R 3	Each TOP shall make available its TRMID, and if requested, underlying documentation (if any) used to determine TRM, in the format used by the TOP, to any of the following who make a written request no more than 30 calendar days after receiving the request. [Violation Risk Factor: Lower] [Time Horizon: Operations Planning] Transmission Service Providers RCs Planning Coordinators Transmission Planner TOPs	Mandatory	TOP		Q1: Does BPA make available its TRMID, and if requested, underlying documentation (if any) used to determine TRM, in the same format used by BPA, to any of the entities listed below that make a written request within 30 calendar days after receiving the request? (If yes, attach evidence and reference page, section, and paragraph numbers.) -- Transmission Service Providers -- Reliability Coordinators -- Planning Coordinators -- Transmission Planner -- Transmission Operators	4/1/2011
MOD-008-1	R 4	Each TOP that maintains TRM shall establish TRM values in accordance with the TRMID at least once every 13 months. [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		Does BPA establish TRM values in accordance with its TRMID at least once every 13 months? (If yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011

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MOD-008-1	R 5	The TOP that maintains TRM shall provide the TRM values to its Transmission Service Provider(s) and Transmission Planner(s) no more than seven calendar days after a TRM value is initially established or subsequently changed. [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		Does BPA, as a Transmission Operator that maintains TRM, provide the TRM values to its Transmission Service Provider(s) (BPA) and Transmission Planner(s) (BPA) no more than seven calendar days after a TRM value is initially established or subsequently changed? (If yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011
MOD-028-2	R 2	When calculating TTC for ATC Paths, the TOP shall use a Transmission model that contains all of the following: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		Is it true that this Requirement and its Sub-Requirements are Not Applicable because BPA does not use the Area Interchange Methodology (MOD-028-1) for calculating ATC? (If yes, attach Not Applicable Memo + evidence and reference page, section and paragraph numbers)	10/1/2013
MOD-028-2	R 2.1	Modeling data and topology of its RC's area of responsibility. Equivalent representation of radial lines and facilities 161 kV or below is allowed.	Mandatory	TOP		See R2	10/1/2013
MOD-028-2	R 2.2	Modeling data and topology (or equivalent representation) for immediately adjacent and beyond Reliability Coordination areas.	Mandatory	TOP		See R2	10/1/2013
MOD-028-2	R 2.3	Facility Ratings specified by the Generator Owners and Transmission Owners.	Mandatory	TOP		See R2	10/1/2013
MOD-028-2	R 3	When calculating TTCs for ATC Paths, the TOP shall include the following data for the Transmission Service Provider's area. The TOP shall also include the following data associated with Facilities that are explicitly represented in the Transmission model, as provided by adjacent Transmission Service Providers and any other Transmission Service Providers with which coordination agreements have been executed: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		Is it true that this Requirement and its Sub-Requirements are Not Applicable because BPA does not use the Area Interchange Methodology (MOD-028-1) for calculating ATC? (If yes, attach Not Applicable Memo + evidence and reference page, section and paragraph numbers)	10/1/2013
MOD-028-2	R 3.1	For TTCs, use the following (as well as any other values and additional parameters as specified in the ATCID):	Mandatory	TOP		See R3	10/1/2013
MOD-028-2	R 3.1.1	Expected generation and Transmission outages, additions, and retirements, included as specified in the ATCID.	Mandatory	TOP		See R3	10/1/2013
MOD-028-2	R 3.1.2	A daily or hourly load forecast for TTCs used in current-day and next-day ATC calculations.	Mandatory	TOP		See R3	10/1/2013

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MOD-028-2	R 3.1.3	A daily load forecast for TTCs used in ATC calculations for days two through 31.	Mandatory	TOP		See R3	10/1/2013
MOD-028-2	R 3.1.4	A monthly load forecast for TTCs used in ATC calculations for months two through 13 months TTCs.	Mandatory	TOP		See R3	10/1/2013
MOD-028-2	R 3.1.5	Unit commitment and dispatch order, to include all designated network resources and other resources that are committed or have the legal obligation to run, (within or out of economic dispatch) as they are expected to run.	Mandatory	TOP		See R3	10/1/2013
MOD-028-2	R 4	When calculating TTCs for ATC Paths, the TOP shall meet all of the following conditions: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		Is it true that this Requirement and its Sub-Requirements are Not Applicable because BPA does not use the Area Interchange Methodology (MOD-028-1) for calculating ATC? (If yes, attach Not Applicable Memo + evidence and reference page, section and paragraph numbers)	10/1/2013
MOD-028-2	R 4.1	Use all Contingencies meeting the criteria described in the ATCID.	Mandatory	TOP		See R4	10/1/2013
MOD-028-2	R 4.2	Respect any contractual allocations of TTC.	Mandatory	TOP		See R4	10/1/2013

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-028-2	R 4.3	<p>Include, for each time period, the Firm Transmission Service expected to be scheduled as specified in the ATCID (filtered to reduce or eliminate duplicate impacts from transactions using Transmission service from multiple Transmission Service Providers) for the Transmission Service Provider, all adjacent Transmission Service Providers, and any Transmission Service Providers with which coordination agreements have been executed modeling the source and sink as follows:</p> <ul style="list-style-type: none"> - If the source, as specified in the ATCID, has been identified in the reservation and it is discretely modeled in the Transmission Service Provider's Transmission model, use the discretely modeled point as the source. - If the source, as specified in the ATCID, has been identified in the reservation and the point can be mapped to an "equivalence" or "aggregate representation" in the Transmission Service Provider's Transmission model, use the modeled equivalence or aggregate as the source. - If the source, as specified in the ATCID, has been identified in the reservation and the point cannot be mapped to a discretely modeled point, an "equivalence," or an "aggregate representation" in the Transmission Service Provider's Transmission model, use the immediately adjacent BA associated with the Transmission Service Provider from which the power is to be received as the source. - If the source, as specified in the ATCID, has not been identified in the reservation, use the immediately adjacent BA associated with the Transmission Service Provider from which the power is to be received as the source. - If the sink, as specified in the ATCID, has been identified in the reservation and it is discretely modeled in the Transmission Service Provider's Transmission model, use the discretely modeled point shall as the sink. - If the sink, as specified in the ATCID, has been identified in the reservation and the point can be mapped to an "equivalence" or "aggregate representation" in the Transmission Service Provider's Transmission model, use the modeled equivalence or aggregate as the sink. - If the sink, as specified in the ATCID, has been identified in the reservation and the point can not be mapped to a discretely modeled point, an "equivalence," or an "aggregate representation" in the Transmission Service Provider's Transmission model, use the immediately adjacent BA associated with the Transmission Service Provider to which the power is to be delivered as the sink. - If the sink, as specified in the ATCID, has not been identified in the reservation, use the immediately adjacent BA associated with the Transmission Service Provider to which the power is being delivered as the sink. 	Mandatory	TOP		See R4	10/1/2013
MOD-028-2	R 5	Each TOP shall establish TTC for each ATC Path as defined below: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		Is it true that this Requirement and its Sub-Requirements are Not Applicable because BPA does not use the Area Interchange Methodology (MOD-028-1) for calculating ATC? (If yes, attach Not Applicable evidence and reference page, section and paragraph numbers)	10/1/2013
MOD-028-2	R 5.1	At least once within the seven calendar days prior to the specified period for TTCs used in hourly and daily ATC calculations.	Mandatory	TOP		See R5	10/1/2013
MOD-028-2	R 5.2	At least once per calendar month for TTCs used in monthly ATC calculations.	Mandatory	TOP		See R5	10/1/2013

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-028-2	R 5.3	Within 24 hours of the unexpected outage of a 500 kV or higher transmission Facility or a transformer with a low-side voltage of 200 kV or higher for TTCs in effect during the anticipated duration of the outage, provided such outage is expected to last 24 hours or longer.	Mandatory	TOP		See R5	10/1/2013
MOD-028-2	R 6	Each TOP shall establish TTC for each ATC Path using the following process: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		Is it true that this Requirement and its Sub-Requirements are Not Applicable because BPA does not use the Area Interchange Methodology (MOD-028-1) for calculating ATC? (If yes, attach Not Applicable Memo + evidence and reference page, section and paragraph numbers)	10/1/2013
MOD-028-2	R 6.1	Determine the incremental Transfer Capability for each ATC Path by increasing generation and/or decreasing load within the source BA area and decreasing generation and/or increasing load within the sink BA area until either: - A System Operating Limit is reached on the Transmission Service Provider's system, or - A SOL is reached on any other adjacent system in the Transmission model that is not on the study path and the distribution factor is 5% or greater ¹	Mandatory	TOP		See R6	10/1/2013
MOD-028-2	R 6.2	If the limit in step R6.1 can not be reached by adjusting any combination of load or generation, then set the incremental Transfer Capability by the results of the case where the maximum adjustments were applied.	Mandatory	TOP		See R6	10/1/2013
MOD-028-2	R 6.3	Use (as the TTC) the lesser of: - The sum of the incremental Transfer Capability and the impacts of Firm Transmission Services, as specified in the Transmission Service Provider's ATCID, that were included in the study model, or - The sum of Facility Ratings of all ties comprising the ATC Path.	Mandatory	TOP		See R6	10/1/2013
MOD-028-2	R 6.4	For ATC Paths whose capacity uses jointly-owned or allocated Facilities, limit TTC for each Transmission Service Provider so the TTC does not exceed each Transmission Service Provider's contractual rights.	Mandatory	TOP		See R6	10/1/2013

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-028-2	R 7	The TOP shall provide the Transmission Service Provider of that ATC Path with the most current value for TTC for that ATC Path no more than: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		Is it true that this Requirement and its Sub-Requirements are Not Applicable because BPA does not use the Area Interchange Methodology (MOD-028-1) for calculating ATC? (If yes, attach Not Applicable Memo + evidence and reference page, section and paragraph numbers)	10/1/2013
MOD-028-2	R 7.1	One calendar day after its determination for TTCs used in hourly and daily ATC calculations.	Mandatory	TOP		See R7	10/1/2013
MOD-028-2	R 7.2	Seven calendar days after its determination for TTCs used in monthly ATC calculations.	Mandatory	TOP		See R7	10/1/2013
MOD-029-1a	R1	When calculating TTCs for ATC Paths, the TOP shall use a Transmission model which satisfies the following requirements: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		See Subrequirements	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R1.1	The model utilizes data and assumptions consistent with the time period being studied and that meets the following criteria:	Mandatory	TOP		See Subrequirements	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R1.1.1	Includes at least:	Mandatory	TOP		See Subrequirements	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R1.1.1.1	The TOP area. Equivalent representation of radial lines and facilities 161kV or below is allowed.	Mandatory	TOP		Q1: When calculating TTCs for ATC Paths, does BPA use a Transmission model that utilizes data and assumptions consistent with the time period being studied? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R1.1.1.1	The TOP area. Equivalent representation of radial lines and facilities 161kV or below is allowed.	Mandatory	TOP		Q2: When calculating TTCs for ATC Paths, does BPA use a Transmission model that includes BPA's TOP area? (Equivalent representation of radial lines and facilities 161kV or below is allowed.) (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R1.1.1.2	All TOP areas contiguous with its own TOP area. (Equivalent representation is allowed.)	Mandatory	TOP		When calculating TTCs for ATC Paths, does BPA use a Transmission model that models all system Elements as in-service for the assumed initial conditions? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-029-1a	R1.1.1.3	Any other TOP area linked to the TOP's area by joint operating agreement. (Equivalent representation is allowed.)	Mandatory	TOP		When calculating TTCs for ATC Paths, does BPA use a Transmission model that includes other TOP areas linked to BPA's TOP area by joint operating agreement; or are there no qualifying joint operating agreements in effect? (Equivalent representation is allowed.) (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R1.1.2	Models all system Elements as in-service for the assumed initial conditions.	Mandatory	TOP		When calculating TTCs for ATC Paths, does BPA use a Transmission model that models all system Elements as in-service for the assumed initial conditions? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R1.1.3	Models all generation (may be either a single generator or multiple generators) that is greater than 20 MVA at the point of interconnection in the studied area.	Mandatory	TOP		When calculating TTCs for ATC Paths, does BPA use a Transmission model that models all generation (either a single generator or multiple generators) that is greater than 20 MVA at the point of interconnection in the studied area? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R1.1.4	Models phase shifters in non-regulating mode, unless otherwise specified in the Available Transfer Capability Implementation Document (ATCID).	Mandatory	TOP		When calculating TTCs for ATC Paths, does BPA use a Transmission model that models phase shifters in non-regulating mode, unless otherwise specified in the ATCID? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R1.1.5	Uses Load forecast by BA.	Mandatory	TOP		When calculating TTCs for ATC Paths, does BPA use a Transmission model that uses load forecasts by BA? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R1.1.6	Uses Transmission Facility additions and retirements.	Mandatory	TOP		When calculating TTCs for ATC Paths, does BPA use a Transmission model that uses Transmission Facility additions and retirements? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-029-1a	R1.1.7	Uses Generation Facility additions and retirements.	Mandatory	TOP		When calculating TTCs for ATC Paths, does BPA use a Transmission model that uses Generation Facility additions and retirements? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R1.1.8	Uses Special Protection System (SPS) models where currently existing or projected for implementation within the studied time horizon.	Mandatory	TOP		When calculating TTCs for ATC Paths, does BPA use a Transmission model that uses Special Protection System (SPS) models where currently existing or projected for implementation within the studied time horizon? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R1.1.9	Models series compensation for each line at the expected operating level unless specified otherwise in the ATCID.	Mandatory	TOP		When calculating TTCs for ATC Paths, does BPA use a Transmission model that models series compensation for each line at the expected operating level unless specified otherwise in the ATCID? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R1.1.10	Includes any other modeling requirements or criteria specified in the ATCID.	Mandatory	TOP		When calculating TTCs for ATC Paths, does BPA use a Transmission model that includes any other modeling requirements or criteria specified in the ATCID; or are there no other requirements or criteria specified in the ATCID? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R1.2	Uses Facility Ratings as provided by the Transmission Owner and Generator Owner	Mandatory	TOP		When calculating TTCs for ATC Paths, does BPA use a Transmission model that uses Facility Ratings as provided by other Transmission Owners and Generator Owners? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R2	The TOP shall use the following process to determine TTC: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		See Subrequirements	4/1/2011 (will retire 3/31/2017)

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-029-1a	R2.1	Except where otherwise specified within MOD-029x, adjust base case generation and Load levels within the updated power flow model to determine the TTC (maximum flow or reliability limit) that can be simulated on the ATC Path while at the same time satisfying all planning criteria contingencies as follows:	Mandatory	TOP		See Subrequirements	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R2.1.1	When modeling normal conditions, all Transmission Elements will be modeled at or below 100% of their continuous rating.	Mandatory	TOP		Does BPA, except where otherwise specified within MOD-029-1, adjust base case generation and Load levels within the updated power flow model to determine the TTC (maximum flow or reliability limit) that can be simulated on the ATC Path AND at the same time, when modeling normal conditions, model all Transmission Elements at or below 100% of their continuous rating? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R2.1.2	When modeling contingencies the system shall demonstrate transient, dynamic and voltage stability, with no Transmission Element modeled above its Emergency Rating.	Mandatory	TOP		Does BPA, except where otherwise specified within MOD-029-1, adjust base case generation and load levels within the updated power flow model to determine the TTC (maximum flow or reliability limit) that can be simulated on the ATC Path AND at the same time, when modeling contingencies, ensure that the system demonstrates transient, dynamic and voltage stability, with no Transmission Element modeled above its Emergency Rating? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R2.1.3	Uncontrolled separation shall not occur.	Mandatory	TOP		Does BPA, except where otherwise specified within MOD-029-1, adjust base case generation and load levels within the updated power flow model to determine the TTC (maximum flow or reliability limit) that can be simulated on the ATC Path AND at the same time, ensure that uncontrolled separation does not occur? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-029-1a	R2.2	Where it is impossible to actually simulate a reliability-limited flow in a direction counter to prevailing flows (on an alternating current Transmission line), set the TTC for the non-prevailing direction equal to the TTC in the prevailing direction. If the TTC in the prevailing flow direction is dependant on a Special Protection System (SPS), set the TTC for the non-prevailing flow direction equal to the greater of the maximum flow that can be simulated in the non-prevailing flow direction or the maximum TTC that can be achieved in the prevailing flow direction without use of a SPS.	Mandatory	TOP		Q1: Is one or more of the following statements true? A. Where it is impossible to actually simulate a reliability-limited flow in a direction counter to prevailing flows (on an alternating current Transmission line), BPA sets the TTC for the non-prevailing direction equal to the TTC in the prevailing direction; or B. There are no conditions where it is impossible to simulate a reliability-limited flow in a direction counter to prevailing flows. (If Yes, attach evidence and reference page, section, and paragraph numbers.) Q2: Is one or more of the following statements true? A. If the TTC in the prevailing flow direction is dependant on a Special Protection System (SPS), BPA sets the TTC for the non-prevailing flow direction equal to the greater of the maximum flow that can be simulated in the non-prevailing flow direction or the maximum TTC that can be achieved in the prevailing flow direction without use of an SPS; or B. There are no conditions where the TTC in the prevailing flow direction is dependant on an SPS. (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R2.3	For an ATC Path whose capacity is limited by contract, set TTC on the ATC Path at the lesser of the maximum allowable contract capacity or the reliability limit as determined by R2.1.	Mandatory	TOP		Is one or more of the following statements true? A. For an ATC Path whose capacity is limited by contract, BPA sets TTC on that ATC Path at the lesser of the maximum allowable contract capacity or the reliability limit as determined by R2.1; or B. BPA does not set TTC on any ATC Path whose capacity is limited by contract. (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-029-1a	R2.4	For an ATC Path whose TTC varies due to simultaneous interaction with one or more other paths, develop a nomogram describing the interaction of the paths and the resulting TTC under specified conditions.	Mandatory	TOP		Is one or more of the following statements true? A. For an ATC Path whose TTC varies due to simultaneous interaction with one or more other paths, BPA develops a nomogram describing the interaction of the paths and the resulting TTC under specified conditions; or B. BPA does not set TTC for any ATC Path whose TTC varies due to simultaneous interaction with one or more other paths. (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R2.5	The TOP shall identify when the TTC for the ATC Path being studied has an adverse impact on the TTC value of any existing path. Do this by modeling the flow on the path being studied at its proposed new TTC level simultaneous with the flow on the existing path at its TTC level while at the same time honoring the reliability criteria outlined in R2.1. The TOP shall include the resolution of this adverse impact in its study report for the ATC Path.	Mandatory	TOP		Q1: Does BPA identify when, if ever, the TTC for the ATC Path being studied has an adverse impact on the TTC value of any existing path, AND do so by modeling the flow on the path being studied at its proposed new TTC level simultaneous with the flow on the existing path at its TTC level while at the same time honoring the reliability criteria outlined in R2.1? (If Yes, attach evidence and reference page, section, and paragraph numbers.) Q2: Is one or more of the following statements true? A. When BPA identifies that TTC for an ATC Path being studied has an adverse impact on the TTC value of any existing path, BPA includes the resolution of the adverse impact in its study report for the ATC Path; or B. BPA has not identified any such situations? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-029-1a	R2.6	Where multiple ownership of Transmission rights exists on an ATC Path, allocate TTC of that ATC Path in accordance with the contractual agreement made by the multiple owners of that ATC Path.	Mandatory	TOP		Is one or more of the following statements true? A. Where multiple ownership of Transmission rights exists on an ATC Path, BPA allocates TTC of that ATC Path in accordance with the contractual agreement made by the multiple owners of that ATC Path; or B. BPA does not set TTC on any ATC Path with multiple ownership of Transmission rights. (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R2.7	For ATC Paths whose path rating, adjusted for seasonal variance, was established, known and used in operation since January 1, 1994, and no action has been taken to have the path rated using a different method, set the TTC at that previously established amount.	Mandatory	TOP		Is one or more of the following statements true? A. BPA sets the TTC at the previously established amount for ATC Paths whose path rating, adjusted for seasonal variance, was established, known and used in operation since January 1, 1994, and no action has been taken to have the path rated using a different method; or B. There are currently no such ATC Paths for which BPA sets TTC. (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R2.8	Create a study report that describes the steps above that were undertaken (R2.1 – R2.7), including the contingencies and assumptions used, when determining the TTC and the results of the study. Where three phase fault damping is used to determine stability limits, that report shall also identify the percent used and include justification for use unless specified otherwise in the ATCID.	Mandatory	TOP		Q1: Does BPA create a study report that describes the steps undertaken in R2.1 – R2.7, including the contingencies and assumptions used, when determining the TTC and the results of the study? (If Yes, attach evidence and reference page, section, and paragraph numbers.) Q2: Is one or more of the following statements true? A. Where three phase fault damping is used to determine stability limits, BPA creates a study report that identifies the percent used and includes justification for use, unless specified otherwise in the ATCID; or B. There are no locations where three phase fault damping is used to determine stability limits. (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-029-1a	R3	Each TOP shall establish the TTC at the lesser of the value calculated in R2 or any System Operating Limit (SOL) for that ATC Path. [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		Does BPA establish the TTC of an ATC Path at the lesser of: a) the value calculated in R2 or b) any System Operating Limit (SOL) for that ATC Path? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-1a	R4	Within seven calendar days of the finalization of the study report, the TOP shall make available to the Transmission Service Provider of the ATC Path, the most current value for TTC and the TTC study report documenting the assumptions used and steps taken in determining the current value for TTC for that ATC Path. [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		Does BPA make available to other Transmission Service Providers of the ATC Path, the most current value for TTC and the TTC study report documenting the assumptions used and steps taken in determining the current value for TTC for that ATC Path within seven calendar days of the finalization of the study report? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011 (will retire 3/31/2017)
MOD-029-2a	R1.	When calculating TTCs for ATC Paths, the Transmission Operator shall use a Transmission model which satisfies the following requirements:	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R1.1	The model utilizes data and assumptions consistent with the time period being studied and that meets the following criteria:	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R1.1.1.	Includes at least:	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R1.1.1.1	The Transmission Operator area. Equivalent representation of radial lines and facilities 161kV or below is allowed.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R1.1.1.2	All Transmission Operator areas contiguous with its own Transmission Operator area. (Equivalent representation is allowed.)	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R1.1.1.3	Any other Transmission Operator area linked to the Transmission Operator's area by joint operating agreement. (Equivalent representation is allowed.)	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R1.1.2.	Models all system Elements as in-service for the assumed initial conditions.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R1.1.3.	Models all generation (may be either a single generator or multiple generators) that is greater than 20 MVA at the point of interconnection in the studied area.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R1.1.4.	Models phase shifters in non-regulating mode, unless otherwise specified in the Available Transfer Capability Implementation Document (ATCID).	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017

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MOD-029-2a	R1.1.5.	Uses Load forecast by Balancing Authority.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R1.1.6.	Uses Transmission Facility additions and retirements.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R1.1.7.	Uses Generation Facility additions and retirements.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R1.1.8.	Uses Remedial Action Scheme (RAS) models where currently existing or projected for implementation within the studied time horizon.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R1.1.9.	Models series compensation for each line at the expected operating level unless specified otherwise in the ATCID.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R1.1.10.	Includes any other modeling requirements or criteria specified in the ATCID.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R1.2.	Uses Facility Ratings as provided by the Transmission Owner and Generator Owner	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R2.	The Transmission Operator shall use the following process to determine TTC:	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R2.1.	Except where otherwise specified within MOD-029-2a, adjust base case generation and Load levels within the updated power flow model to determine the TTC (maximum flow or reliability limit) that can be simulated on the ATC Path while at the same time satisfying all planning criteria contingencies as follows:	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R2.1.1.	When modeling normal conditions, all Transmission Elements will be modeled at or below 100% of their continuous rating.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R2.1.2.	When modeling contingencies the system shall demonstrate transient, dynamic and voltage stability, with no Transmission Element modeled above its Emergency Rating.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R2.1.3.	Uncontrolled separation shall not occur.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-029-2a	R2.2	Where it is impossible to actually simulate a reliability-limited flow in a direction counter to prevailing flows (on an alternating current Transmission line), set the TTC for the non-prevailing direction equal to the TTC in the prevailing direction. If the TTC in the prevailing flow direction is dependent on a Remedial Action Scheme (RAS), set the TTC for the non-prevailing flow direction equal to the greater of the maximum flow that can be simulated in the non-prevailing flow direction or the maximum TTC that can be achieved in the prevailing flow direction without use of a RAS.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R2.3.	For an ATC Path whose capacity is limited by contract, set TTC on the ATC Path at the lesser of the maximum allowable contract capacity or the reliability limit as determined by R2.1.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R2.4.	For an ATC Path whose TTC varies due to simultaneous interaction with one or more other paths, develop a nomogram describing the interaction of the paths and the resulting TTC under specified conditions.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R2.5.	The Transmission Operator shall identify when the TTC for the ATC Path being studied has an adverse impact on the TTC value of any existing path. Do this by modeling the flow on the path being studied at its proposed new TTC level simultaneous with the flow on the existing path at its TTC level while at the same time honoring the reliability criteria outlined in R2.1. The Transmission Operator shall include the resolution of this adverse impact in its study report for the ATC Path.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R2.6.	Where multiple ownership of Transmission rights exists on an ATC Path, allocate TTC of that ATC Path in accordance with the contractual agreement made by the multiple owners of that ATC Path.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-029-2a	R2.7.	For ATC Paths whose path rating, adjusted for seasonal variance, was established, known and used in operation since January 1, 1994, and no action has been taken to have the path rated using a different method, set the TTC at that previously established amount.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R2.8.	Create a study report that describes the steps above that were undertaken (R2.1 – R2.7), including the contingencies and assumptions used, when determining the TTC and the results of the study. Where three phase fault damping is used to determine stability limits, that report shall also identify the percent used and include justification for use unless specified otherwise in the ATCID.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R3.	Each Transmission Operator shall establish the TTC at the lesser of the value calculated in R2 or any System Operating Limit (SOL) for that ATC Path.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-029-2a	R4.	Within seven calendar days of the finalization of the study report, the Transmission Operator shall make available to the Transmission Service Provider of the ATC Path, the most current value for TTC and the TTC study report documenting the assumptions used and steps taken in determining the current value for TTC for that ATC Path.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-2	R 2	The TOP shall perform the following: [Violation Risk Factor: To Be Determined] [Time Horizon: Operations Planning]	Mandatory	TOP		See Subrequirements	4/1/2011
MOD-030-2	R 2.1	Include Flowgates used in the AFC process based, at a minimum, on the following criteria:	Mandatory	TOP		See Subrequirements	4/1/2011

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-030-2	R 2.1.1	Results of a first Contingency transfer analysis for ATC Paths internal to a TOP's system up to the path capability such that at a minimum the first three limiting Elements and their worst associated Contingency combinations with an OTDF of at least 5% and within the TOP's system are included as Flowgates.	Mandatory	TOP		Does BPA's criteria for determining which Flowgates are used in the AFC process include Flowgates based on the results of a first Contingency transfer analysis for ATC Paths internal to a Transmission Operator's system up to the path capability such that at a minimum the first three limiting Elements and their worst associated Contingency combinations with an Outage Transfer Distribution Factor (OTDF) of at least 5% and within the Transmission Operator's system? (If yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011
MOD-030-2	R 2.1.1.1	Use first Contingency criteria consistent with those first Contingency criteria used in planning of operations for the applicable time periods, including use of Special Protection Systems.	Mandatory	TOP		Do BPA's criteria for determining which Flowgates are used in the AFC process (for ATC Paths INTERNAL to BPA's system) include Flowgates based on at least the first Contingency criteria consistent with those first Contingency criteria used in planning of operations for the applicable time periods, including use of Special Protection Systems? (If yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011
MOD-030-2	R 2.1.1.2	Only the most limiting element in a series configuration needs to be included as a Flowgate.	Mandatory	TOP		Do BPA's criteria for determining which Flowgates are used in the AFC process (for ATC Paths INTERNAL to BPA's system) include, at a minimum, Flowgates based on the most limiting element in a series configuration? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-030-2	R 2.1.1.3	If any limiting element is kept within its limit for its associated worst Contingency by operating within the limits of another Flowgate, then no new Flowgate needs to be established for such limiting elements or Contingencies.	Mandatory	TOP		Is one or more of the following statements true? A. BPA's criteria for determining which Flowgates are used in the AFC process (for ATC Paths INTERNAL to BPA's system) EXCLUDE new Flowgates for any limiting element that is kept within its limit for its associated worst Contingency by operating within the limits of another Flowgate; or B. BPA does not determine Flowgates for any elements that are kept within their limits for their associated worst Contingency by operating within the limits of another Flowgate. (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011
MOD-030-2	R 2.1.1.2	Results of a first Contingency transfer analysis from all adjacent BA source and sink (as defined in the ATCID) combinations up to the path capability such that at a minimum the first three limiting Elements and their worst associated Contingency combinations with an Outage Transfer Distribution Factor (OTDF) of at least 5% and within the TOP's system are included as Flowgates unless the interface between such adjacent Balancing Authorities is accounted for using another ATC methodology.	Mandatory	TOP		Do BPA's criteria for determining which Flowgates are used in the AFC process include Flowgates based on the results of a first Contingency transfer analysis from all adjacent BA source and sink (as defined in the ATCID) combinations up to the path capability such that at a minimum the first three limiting Elements and their worst associated Contingency combinations with an Outage Transfer Distribution Factor (OTDF) of at least 5% and within the TOP's system are included as Flowgates UNLESS the interface between such adjacent Balancing Authorities is accounted for using another ATC methodology? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-030-2	R 2.1.2.1	Use first Contingency criteria consistent with those first Contingency criteria used in planning of operations for the applicable time periods, including use of Special Protection Systems.	Mandatory	TOP		Do BPA's criteria for determining which Flowgates are used in the AFC process (from all adjacent BA source and sink (as defined in the ATCID) combinations) include Flowgates based on the first Contingency criteria consistent with those first Contingency criteria used in planning of operations for the applicable time periods, including use of Special Protection Systems UNLESS the interface between such adjacent Balancing Authorities is accounted for using another ATC methodology? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011
MOD-030-2	R 2.1.2.2	Only the most limiting element in a series configuration needs to be included as a Flowgate.	Mandatory	TOP		Do BPA's criteria for determining which Flowgates are used in the AFC process (from all adjacent BA source and sink (as defined in the ATCID) combinations) include Flowgates based on at least the most limiting element in a series configuration UNLESS the interface between such adjacent Balancing Authorities is accounted for using another ATC methodology? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-030-2	R 2.1.2.3	If any limiting element is kept within its limit for its associated worst Contingency by operating within the limits of another Flowgate, then no new Flowgate needs to be established for such limiting elements or Contingencies.	Mandatory	TOP		Is one or more of the following statements true? A. BPA's criteria for determining which Flowgates are used in the AFC process (from all adjacent BA source and sink (as defined in the ATCID) combinations) EXCLUDE new Flowgates for any limiting element (or its associated worst Contingency), that is kept within its limit for its associated worst Contingency by operating within the limits of another Flowgate UNLESS the interface between such adjacent Balancing Authorities is accounted for using another ATC methodology; or B. BPA does not determine Flowgates for any elements that are kept within their limits for their associated worst Contingency by operating within the limits of another Flowgate. (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011
MOD-030-2	R 2.1.3	Any limiting Element/Contingency combination at least within its RC's Area that has been subjected to an Interconnection-wide congestion management procedure within the last 12 months, unless the limiting Element/Contingency combination is accounted for using another ATC methodology or was created to address temporary operating conditions.	Mandatory	TOP		Is one or more of the following statements true? A. BPA's criteria for determining which Flowgates are used in the AFC process include Flowgates based on any limiting Element/Contingency combination at least within its RC's Area that has been subjected to an Interconnection-wide congestion management procedure within the last 12 months, UNLESS the limiting Element/Contingency combination is accounted for using another ATC methodology or was created to address temporary operating conditions; or B. BPA does not determine Flowgates for any limiting Element/Contingency combination that has been subjected to an Interconnection-wide congestion management procedure within the last 12 months (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-030-2	R 2.1.4	Any limiting Element/Contingency combination within the Transmission model that has been requested to be included by any other Transmission Service Provider using the Flowgate Methodology or Area Interchange Methodology, where:	Mandatory	TOP		See Subrequirements	4/1/2011
MOD-030-2	R 2.1.4.1	The coordination of the limiting Element/Contingency combination is not already addressed through a different methodology, and -Any generator within the Transmission Service Provider's area has at least a 5% Power Transfer Distribution Factor (PTDF) or Outage Transfer Distribution Factor (OTDF) impact on the Flowgate when delivered to the aggregate load of its own area, or -A transfer from any Balancing Area within the Transmission Service Provider's area to a Balancing Area adjacent has at least a 5% PTDF or OTDF impact on the Flowgate. -The TOP may utilize distribution factors less than 5% if desired.	Mandatory	TOP		Is one or more of the following statements true? A. BPA includes Flowgates used in the AFC process based on any limiting Element/Contingency combination within the Transmission model that has been requested to be included by any other Transmission Service Provider using the Flowgate Methodology or Area Interchange Methodology, where the coordination of the limiting Element/Contingency combination is not already addressed through a different methodology, AND any generator within the Transmission Service Provider's area has at least a 5% Power Transfer Distribution Factor (PTDF) or Outage Transfer Distribution Factor (OTDF) impact on the Flowgate when delivered to the aggregate load of its own area, OR a transfer from any Balancing Area within the Transmission Service Provider's area to a Balancing Area adjacent has at least a 5% PTDF or OTDF impact on the Flowgate. (BPA may utilize distribution factors less than 5% if desired.); or B. BPA has not received any requests from other Transmission Service Providers to include a limiting Element/Contingency combination. (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-030-2	R 2.1.4.2	The limiting Element/Contingency combination is included in the requesting Transmission Service Provider's methodology.	Mandatory	TOP		Is one or more of the following statements true? A. BPA includes Flowgates used in the AFC process based on any limiting Element/Contingency combination within the Transmission model that has been requested to be included by any other Transmission Service Provider using the Flowgate Methodology or Area Interchange Methodology, where the combination is included in the requesting Transmission Service Provider's methodology; or B. BPA has not received any requests from other Transmission Service Providers to include a limiting Element/Contingency combination. (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011
MOD-030-2	R 2.2	At a minimum, establish a list of Flowgates by creating, modifying, or deleting Flowgate definitions at least once per calendar year.	Mandatory	TOP		Does BPA establish a list of Flowgates by creating, modifying, or deleting Flowgate definitions at least once per calendar year? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011
MOD-030-2	R 2.3	At a minimum, establish a list of Flowgates by creating, modifying, or deleting Flowgates that have been requested as part of R2.1.4 within thirty calendar days from the request.	Mandatory	TOP		Is one or more of the following statements true? A. BPA establishes a list of Flowgates by creating, modifying, or deleting Flowgates that have been requested as part of R2.1.4 within thirty (30) calendar days from the request; or B. BPA has received no such requests during this period. (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-030-2	R 2.4	Establish the TFC of each of the defined Flowgates as equal to: -For thermal limits, the System Operating Limit (SOL) of the Flowgate. -For voltage or stability limits, the flow that will respect the SOL of the Flowgate.	Mandatory	TOP		Q1: Does BPA establish the TFC of each of the defined Flowgates as equal to the System Operating Limit (SOL) of the Flowgate for thermal limits? (If Yes, attach evidence and reference page, section, and paragraph numbers.) Q2: Does BPA establish the TFC of each of the defined Flowgates as equal to the flow that will respect the SOL of the Flowgate for voltage or stability limits? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011
MOD-030-2	R 2.5	At a minimum, establish the TFC once per calendar year.	Mandatory	TOP		Does BPA establish the TFC at least once per calendar year? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011
MOD-030-2	R 2.5.1	If notified of a change in the Rating by the Transmission Owner that would affect the TFC of a flowgate used in the AFC process, the TFC should be updated within seven calendar days of the notification.	Mandatory	TOP		Is one or more of the following statements true? A. BPA updates the TFC within seven (7) calendar days of being notified of a change in the Rating by a Transmission Owner that would affect the TFC of a flowgate used in the AFC process; or B. BPA has not received such a notification during the current period. (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011
MOD-030-2	R 2.6	Provide the Transmission Service Provider with the TFCs within seven calendar days of their establishment.	Mandatory	TOP		Does BPA provide its Transmission Service Provider (BPA) with the TFCs within seven (7) calendar days of their establishment? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011
MOD-030-2	R 3	The TOP shall make available to the Transmission Service Provider a Transmission model to determine Available Flowgate Capability (AFC) that meets the following criteria: [Violation Risk Factor: To Be Determined] [Time Horizon: Operations Planning]	Mandatory	TOP		See Subrequirements	4/1/2011

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-030-2	R 3.1	Contains generation Facility Ratings, such as generation maximum and minimum output levels, specified by the Generator Owners of the Facilities within the model.	Mandatory	TOP		Does BPA, as a TOP, make available to its Transmission Service Provider (BPA) a transmission model to determine AFC that contains generation Facility Ratings, such as generation maximum and minimum output levels, as specified by the Generator Owners of the Facilities within the model? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011
MOD-030-2	R 3.2	Updated at least once per day for AFC calculations for intra-day, next day, and days two through 30.	Mandatory	TOP		Does BPA, as a TOP, make available to its Transmission Service Provider (BPA) a transmission model to determine AFC that is updated as least once per day for AFC calculations for intra-day, next day, and days two (2) through 30? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011
MOD-030-2	R 3.3	Updated at least once per month for AFC calculations for months two through 13.	Mandatory	TOP		Does BPA, as a TOP, make available to its Transmission Service Provider (BPA) a transmission model to determine AFC that is updated as least once per month for AFC calculations for months two (2) through 13? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011
MOD-030-2	R 3.4	Contains modeling data and system topology for the Facilities within its RC's Area. Equivalent representation of radial lines and Facilities 161kV or below is allowed.	Mandatory	TOP		Does BPA, as a TOP, make available to its Transmission Service Provider (BPA) a transmission model to determine AFC that contains modeling data and system topology for the Facilities within its RC's Area (equivalent representation of radial lines and Facilities 161 kV or below is allowed)? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011
MOD-030-2	R 3.5	Contains modeling data and system topology (or equivalent representation) for immediately adjacent and beyond Reliability Coordination Areas.	Mandatory	TOP		Does BPA, as a TOP, make available to its Transmission Service Provider (BPA) a transmission model to determine AFC that contains modeling data and system topology (or equivalent representation) for immediately adjacent and beyond Reliability Coordination Areas? (If Yes, attach evidence and reference page, section, and paragraph numbers.)	4/1/2011

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-030-3	R2.	The Transmission Operator shall perform the following:	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R2.1.	Include Flowgates used in the AFC process based, at a minimum, on the following criteria:	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R2.1.1.	Results of a first Contingency transfer analysis for ATC Paths internal to a Transmission Operator's system up to the path capability such that at a minimum the first three limiting Elements and their worst associated Contingency combinations with an OTDF of at least 5% and within the Transmission Operator's system are included as Flowgates.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R2.1.1.1	Use first Contingency criteria consistent with those first Contingency criteria used in planning of operations for the applicable time periods, including use of Remedial Action Schemes.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R2.1.1.2	Only the most limiting element in a series configuration needs to be included as a Flowgate.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R2.1.1.3	If any limiting element is kept within its limit for its associated worst Contingency by operating within the limits of another Flowgate, then no new Flowgate needs to be established for such limiting elements or Contingencies.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R2.1.2.	Results of a first Contingency transfer analysis from all adjacent Balancing Authority source and sink (as defined in the ATCID) combinations up to the path capability such that at a minimum the first three limiting Elements and their worst associated Contingency combinations with an Outage Transfer Distribution Factor (OTDF) of at least 5% and within the Transmission Operator's system are included as Flowgates unless the interface between such adjacent Balancing Authorities is accounted for using another ATC methodology.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R2.1.2.1	Use first Contingency criteria consistent with those first Contingency criteria used in planning of operations for the applicable time periods, including use of Remedial Action Schemes.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R2.1.2.2	Only the most limiting element in a series configuration needs to be included as a Flowgate.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-030-3	R2.1.2.3	If any limiting element is kept within its limit for its associated worst Contingency by operating within the limits of another Flowgate, then no new Flowgate needs to be established for such limiting elements or Contingencies.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R2.1.3.	Any limiting Element/Contingency combination at least within its Reliability Coordinator's Area that has been subjected to an Interconnection-wide congestion management procedure within the last 12 months, unless the limiting Element/Contingency combination is accounted for using another ATC methodology or was created to address temporary operating conditions.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R2.1.4.	Any limiting Element/Contingency combination within the Transmission model that has been requested to be included by any other Transmission Service Provider using the Flowgate Methodology or Area Interchange Methodology, where:	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R2.1.4.1	The coordination of the limiting Element/Contingency combination is not already addressed through a different methodology, and [See standard for additional information.]	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R2.1.4.2	The limiting Element/Contingency combination is included in the requesting Transmission Service Provider's methodology.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R2.2.	At a minimum, establish a list of Flowgates by creating, modifying, or deleting Flowgate definitions at least once per calendar year.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R2.3.	At a minimum, establish a list of Flowgates by creating, modifying, or deleting Flowgates that have been requested as part of R2.1.4 within thirty calendar days from the request.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R2.4.	Establish the TFC of each of the defined Flowgates as equal to: [See standard for additional information.]	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R2.5.	At a minimum, establish the TFC once per calendar year.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017

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Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
MOD-030-3	R2.5.1.	If notified of a change in the Rating by the Transmission Owner that would affect the TFC of a flowgate used in the AFC process, the TFC should be updated within seven calendar days of the notification.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R2.6.	Provide the Transmission Service Provider with the TFCs within seven calendar days of their establishment.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R3.	The Transmission Operator shall make available to the Transmission Service Provider a Transmission model to determine Available Flowgate Capability (AFC) that meets the following criteria:	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R3.1.	Contains generation Facility Ratings, such as generation maximum and minimum output levels, specified by the Generator Owners of the Facilities within the model.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R3.2.	Updated at least once per day for AFC calculations for intra-day, next day, and days two through 30.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R3.3	Updated at least once per month for AFC calculations for months two through 13.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R3.4.	Contains modeling data and system topology for the Facilities within its Reliability Coordinator's Area. Equivalent representation of radial lines and Facilities 161kV or below is allowed.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-030-3	R3.5.	Contains modeling data and system topology (or equivalent representation) for immediately adjacent and beyond Reliability Coordination Areas.	FERC Approved	TOP		Not developed yet - future RSIP	Mandatory as of 4/1/2017
MOD-033-1	R2.	Each Reliability Coordinator and Transmission Operator shall provide actual system behavior data (or a written response that it does not have the requested data) to any Planning Coordinator performing validation under Requirement R1 within 30 calendar days of a written request, such as, but not limited to, state estimator case or other Real-time data (including disturbance data recordings) necessary for actual system response validation.	FERC Approved	RC, TOP		Draft - need to confirm: Has BPA as TOP provided actual system behavior data (or a written response that it does not have the requested data) to any Planning Coordinator performing validation under Requirement R1 within 30 calendar days of a written request, such as, but not limited to, state estimator case or other Real-time data (including disturbance data recordings) necessary for actual system response validation?	Mandatory as of 7/1/2017

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
NUC-001-3	R2.	The Nuclear Plant Generator Operator and the applicable Transmission Entities shall have in effect one or more Agreements[1] that include mutually agreed to NPIRs and document how the Nuclear Plant Generator Operator and the applicable Transmission Entities shall address and implement these NPIRs.	Mandatory	BA, DP, GO, GOP, LSE, PC, RC, TO, TOP, TP, TSP		Does BPA have an Agreement(s) in effect with its Nuclear Plant Generator Operator(s) that a. includes mutually agreed to Nuclear Plant Interface Requirements (NPIRs) AND b. documents how BPA shall address and implement the NPIRs?	1/1/2016
NUC-001-3	R3.	Per the Agreements developed in accordance with this standard, the applicable Transmission Entities shall incorporate the NPIRs into their planning analyses of the electric system and shall communicate the results of these analyses to the Nuclear Plant Generator Operator.:	Mandatory	BA, DP, GO, GOP, LSE, PC, RC, TO, TOP, TP, TSP		Per the Agreement(s) with the Nuclear Plant Generator Operator(s), does BPA a. incorporate the Nuclear Plant Interface Requirements (NPIRs) into its planning analyses of the electric system AND b. communicate the results of these analyses to the Nuclear Plant Generator Operator?	1/1/2016
NUC-001-3	R4.	Per the Agreements developed in accordance with this standard, the applicable Transmission Entities shall: (please see standard for sub-req's)	Mandatory	BA, DP, GO, GOP, LSE, PC, RC, TO, TOP, TP, TSP		Per the Agreement(s) with the Nuclear Plant Generator Operator(s), does BPA incorporate the Nuclear Plant Interface Requirements (NPIRs) into its operating analyses of the electric system?	1/1/2016
NUC-001-3	R6.	Per the Agreements developed in accordance with this standard, the applicable Transmission Entities and the Nuclear Plant Generator Operator shall coordinate outages and maintenance activities which affect the NPIRs.	Mandatory	BA, DP, GO, GOP, LSE, PC, RC, TO, TOP, TP, TSP		Per the Agreement(s) with the Nuclear Plant Generator Operator(s), does BPA coordinate outages and maintenance activities which affect the NPIRs with the Nuclear Plant Generator Operator(s)?	1/1/2016
NUC-001-3	R8.	Per the Agreements developed in accordance with this standard, the applicable Transmission Entities shall inform the Nuclear Plant Generator Operator of actual or proposed changes to electric system design (e.g., protective relay setpoints), configuration, operations, limits, or capabilities that may impact the ability of the electric system to meet the NPIRs.	Mandatory	BA, DP, GO, GOP, LSE, PC, RC, TO, TOP, TP, TSP		Q1: Per the Agreement(s) with the Nuclear Plant Generator Operator(s), does BPA inform the Nuclear Plant Generator Operator(s) of actual changes to electric system design, configuration, operations, limits, protection systems, or capabilities that may impact the ability of the electric system to meet the Nuclear Plant Interface Requirements (NPIRs)? Q2: Per the Agreement(s) with the Nuclear Plant Generator Operator(s), does BPA inform the Nuclear Plant Generator Operator(s) of proposed changes to electric system design, configuration, operations, limits, protection systems, or capabilities that may impact the ability of the electric system to meet the Nuclear Plant Interface Requirements (NPIRs)?	1/1/2016

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
NUC-001-3	R9. - R9.4.5	<p>The Nuclear Plant Generator Operator and the applicable Transmission Entities shall include the following elements in aggregate within the Agreement(s) identified in R2.</p> <ul style="list-style-type: none"> Where multiple Agreements with a single Transmission Entity are put into effect, the R9 elements must be addressed in aggregate within the Agreements; however, each Agreement does not have to contain each element. The Nuclear Plant Generator Operator and the Transmission Entity are responsible for ensuring all the R9 elements are addressed in aggregate within the Agreements. Where Agreements with multiple Transmission Entities are required, the Nuclear Plant Generator Operator is responsible for ensuring all the R9 elements are addressed in aggregate within the Agreements with the Transmission Entities. The Agreements with each Transmission Entity do not have to contain each element; however, the Agreements with the multiple Transmission Entities, in the aggregate, must address all R9 elements. For each Agreement(s), the Nuclear Plant Generator Operator and the Transmission Entity are responsible to ensure the Agreement(s) contain(s) the elements of R9 applicable to that Transmission Entity. (please see standard for sub-req's) 	Mandatory	BA, DP, GO, GOP, LSE, PC, RC, TO, TOP, TP, TSP		<p>Do BPA and the Nuclear Plant generator Operator have one or more Agreements (as identified in R2) in effect that, in the aggregate, address all of the R9 elements?</p> <p>9.1. Retired. [Note: Part 9.1 was retired under the Paragraph 81 project. The NUC SDT proposes to leave this Part blank to avoid renumbering Requirement parts that would impact existing agreements throughout the industry.]</p> <p>9.2. Technical requirements and analysis.</p> <p>9.2.1. Identification of parameters, limits, configurations, and operating scenarios included in the NPIRs and, as applicable, procedures for providing any specific data not provided within the Agreement.</p> <p>9.2.2. Identification of facilities, components, and configuration restrictions that are essential for meeting the NPIRs.</p> <p>9.2.3. Types of planning and operational analyses performed specifically to support the NPIRs, including the frequency of studies and types of Contingencies and scenarios required.</p> <p>9.3. Operations and maintenance coordination</p> <p>9.3.1. Designation of ownership of electrical facilities at the interface between the electric system and the nuclear plant and responsibilities for operational control coordination and maintenance of these facilities.</p> <p>9.3.2. Identification of any maintenance requirements for equipment not owned or controlled by the Nuclear Plant Generator Operator that are necessary to meet the NPIRs.</p>	1/1/2016
PER-001-0.2	R 1	Each TOP and BA shall provide operating personnel with the responsibility and authority to implement real-time actions to ensure the stable and reliable operation of the Bulk Electric System.	Mandatory	BA, TOP		Does BPA provide its operating personnel with the responsibility and authority to implement real-time actions to ensure the stable and reliable operation of the Bulk Electric System? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/13/2012

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
PER-003-1	R 2	Each TOP shall staff its Real-time operating positions performing TOP reliability-related tasks with System Operators who have demonstrated minimum competency in the areas listed by obtaining and maintaining one of the following valid NERC certificates (1) : [Risk Factor: High][Time Horizon: Real-time Operations]:	Mandatory	TOP		Does BPA staff its Real-time operating positions performing TOP reliability-related tasks with System Operators who have demonstrated minimum competency in the areas listed by obtaining and maintaining one of the following valid NERC certificates: Areas of Competency Transmission operations Emergency preparedness and operations System operations Protection and control Voltage and reactive Certificates Reliability Operator Balancing, Interchange and TOP	10/1/2012
PER-003-1	R 2.1	Areas of Competency	Mandatory	TOP		See R2	10/1/2012
PER-003-1	R 2.1.1	Transmission operations	Mandatory	TOP		See R2	10/1/2012
PER-003-1	R 2.1.2	Emergency preparedness and operations	Mandatory	TOP		See R2	10/1/2012
PER-003-1	R 2.1.3	System operations	Mandatory	TOP		See R2	10/1/2012
PER-003-1	R 2.1.4	Protection and control	Mandatory	TOP		See R2	10/1/2012
PER-003-1	R 2.1.5	Voltage and reactive	Mandatory	TOP		See R2	10/1/2012
PER-003-1	R 2.2	Certificates <ul style="list-style-type: none"> • Reliability Operator • Balancing, Interchange and Transmission Operator • TOP 	Mandatory	TOP		See R2	10/1/2012
PER-005-2	R1.	Each Reliability Coordinator, Balancing Authority, and Transmission Operator shall use a systematic approach to develop and implement a training program for its System Operators as follows: [Please see the standard for more information]	Mandatory	BA, RC, TOP		Does BPA use a systematic approach to develop and implement a training program for its System Operators?	7/1/2016
PER-005-2	R 1.1	Each Reliability Coordinator, Balancing Authority, and Transmission Operator shall create a list of Bulk Electric System (BES) company-specific Real-time reliability-related tasks based on a defined and documented methodology.	Mandatory	BA, RC, TOP		Part 1.1: Is one of the following statements true? BPA has a list of BES company-specific Real-time reliability-related tasks based on a defined and documented methodology, BPA reviews the list each calendar year, and during this period, no updates were necessary. OR BPA has a list of BES company-specific Real-time reliability-related tasks based on a defined and documented methodology, BPA reviews the list each calendar year, and during this period, necessary updates were made.	7/1/2016

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
PER-005-2	R 1.1.1	Each Reliability Coordinator, Balancing Authority, and Transmission Operator shall review, and update if necessary, its list of BES companyspecific Real-time reliability-related tasks identified in part 1.1 each calendar year.	Mandatory	BA, RC, TOP		See R1.1	7/1/2016
PER-005-2	R 1.2	Each Reliability Coordinator, Balancing Authority, and Transmission Operator shall design and develop training materials according to its training program, based on the BES company-specific Real-time reliability-related task list created in part 1.1.	Mandatory	BA, RC, TOP		Part 1.2: Does BPA design and develop training materials according to its training program, based on the BES company-specific Real-time reliability-related task list created in Requirement 1 part 1.1?	7/1/2016
PER-005-2	R 1.3	Each Reliability Coordinator, Balancing Authority, and Transmission Operator shall deliver training to its System Operators according to its training program.	Mandatory	BA, RC, TOP		Part 1.3: Does BPA deliver training to its System Operators according to its training program?	7/1/2016
PER-005-2	R 1.4	Each Reliability Coordinator, Balancing Authority, and Transmission Operator shall conduct an evaluation each calendar year of the training program established in Requirement R1 to identify any needed changes to the training program and shall implement the changes identified.	Mandatory	BA, RC, TOP		Part 1.4: Is one of the following statements true: BPA conducts an evaluation each calendar year of the training program established in Requirement R1 to identify any needed changes to the training program, and during this period, no changes were identified. OR BPA conducts an evaluation each calendar year of the training program established in Requirement R1 to identify any needed changes to the training program, and during this period, the identified changes were implemented.	7/1/2016

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
PER-005-2	R3.	Each Reliability Coordinator, Balancing Authority, Transmission Operator, and Transmission Owner shall verify, at least once, the capabilities of its personnel, identified in Requirement R1 or requirement R2, assigned to perform each of the BES company-specific Real-time reliability-related tasks identified under Requirement R1 part 1.1 or Requirement R2 part 2.1. [Please see the standard for more information]	Mandatory	BA, RC, TO, TOP		Does BPA verify, at least once, the capabilities of its personnel, identified in Requirements R1 and R2, assigned to perform each of the BES company-specific Real-time reliability-related tasks identified under Requirement R1 part 1.1? Note: BPA uses the same program and evidence to comply with R1 and R2 because the same employees fill the roles under R1 (Balancing Authority/Transmission Operator System Operators) and R2 (Transmission Owner personnel, excluding field switching personnel, who can act independently to operate or direct the operation of BPA's Bulk Electric System transmission Facilities in real time).	7/1/2016
PER-005-2	R 3.1	Within six months of a modification or addition of a BES company-specific Realtime reliability-related task, each Reliability Coordinator, Balancing Authority, Transmission Operator, and Transmission Owner shall verify the capabilities of each of its personnel identified in Requirement R1 or Requirement R2 to perform the new or modified BES company-specific Real-time reliability-related tasks identified in Requirement R1 part 1.1 or Requirement R2 part 2.1.	Mandatory	BA, RC, TO, TOP		Is one of the following statements true? a) BPA has had no modifications of or additions to the BES company-specific Real-time reliability-related tasks during this period. OR b) BPA modified or added one or more BES company-specific Real-time reliability-related tasks within this period, and within six months of the modification(s) or addition(s), BPA verified the capabilities of each of its personnel identified in Requirements R1 and R2 to perform the new or modified BES company-specific Real-time reliability-related tasks identified in Requirement R1 part 1.1. Note: BPA uses the same program and evidence to comply with R1 and R2 because the same employees fill the roles under R1 (Balancing Authority/Transmission Operator System Operators) and R2 (Transmission Owner personnel, excluding field switching personnel, who can act independently to operate or direct the operation of BPA's Bulk Electric System transmission Facilities in real time).	7/1/2016

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
PER-005-2	R4.	Each Reliability Coordinator, Balancing Authority, Transmission Operator, and Transmission Owner that (1) has operational authority or control over Facilities with established Interconnection Reliability Operating Limits (IROLs), or (2) has established protection systems or operating guides to mitigate IROL violations, shall provide its personnel identified in Requirement R1 or Requirement R2 with emergency operations training using simulation technology such as a simulator, virtual technology, or other technology that replicates the operational behavior of the BES. [Please see the standard for more information]	Mandatory	BA, RC, TO, TOP		Does BPA provide its personnel identified in Requirements R1 and R2 with emergency operations training using simulation technology such as a simulator, virtual technology, or other technology that replicates the operational behavior of the BES? Note: BPA uses the same program and evidence to comply with R1 and R2 because the same employees fill the roles under R1 (Balancing Authority/Transmission Operator System Operators) and R2 (Transmission Owner personnel, excluding field switching personnel, who can act independently to operate or direct the operation of BPA's Bulk Electric System transmission Facilities in real time).	7/1/2016
PER-005-2	R 4.1	A Reliability Coordinator, Balancing Authority, Transmission Operator, or Transmission Owner that did not previously meet the criteria of Requirement R4, shall comply with Requirement R4 within 12 months of meeting the criteria.	Mandatory	BA, RC, TO, TOP		See R4	7/1/2016

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
PER-005-2	R5.	Each Reliability Coordinator, Balancing Authority, and Transmission Operator shall use a systematic approach to develop and implement training for its identified Operations Support Personnel on how their job function(s) impact those BES company-specific Real-time reliability-related tasks identified by the entity pursuant to Requirement R1 part 1.1. [Please see the standard for more information]	Mandatory	BA, RC, TOP		<p>Q1) Does BPA use a systematic approach to develop and implement training for its identified "Operations Support Personnel that work in the Outage Office" on how their job function(s) impact those BES company-specific Real-time reliability-related tasks identified by the entity pursuant to Requirement R1 Part 1.1?</p> <p>Q2) With respect to the needs of its "Operations Support Personnel that work in the Outage Office", does BPA conduct an evaluation each calendar year of the training established in Requirement R5 to identify and implement changes to the training?</p> <p>Q3) Does BPA use a systematic approach to develop and implement training for its identified "non-Outage Office Operations Support Personnel" on how their job function(s) impact those BES company-specific Real-time reliability-related tasks identified by the entity pursuant to Requirement R1 part 1.1?</p>	7/1/2016
PER-005-2	R 5.1	Each Reliability Coordinator, Balancing Authority, and Transmission Operator shall conduct an evaluation each calendar year of the training established in requirement R5 to identify and implement changes to the training.	Mandatory	BA, RC, TOP		Part 5.1: With respect to the needs of its "non-Outage Office Operations Support Personnel", does BPA conduct an evaluation each calendar year of the training established in Requirement R5 to identify and implement changes to the training?	7/1/2016
PRC-001-1.1 (ii)	R 1	Each TOP, BA, and Generator Operator shall be familiar with the purpose and limitations of protection system schemes applied in its area.	Mandatory	BA, GO, TOP		Is BPA familiar with the purpose and limitations of the protection system schemes applied in the area? (If Yes, attach evidence and reference page, section, and paragraph numbers)	4/1/2013
PRC-001-1.1 (ii)	R 2	Each Generator Operator and TOP shall notify reliability entities of relay or equipment failures as follows:	Mandatory	GO, TOP		Did you have an equipment or relay failure during the audit period which reduced system reliability? If yes, provide evidence you notified the proper entities.	4/1/2013

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
PRC-001-1.1 (ii)	R 2.2	If a protective relay or equipment failure reduces system reliability, the TOP shall notify its RC and affected TOPs and Balancing Authorities. The TOP shall take corrective action as soon as possible	Mandatory	TOP		Q1: If a protective relay or equipment failure reduces system reliability, does BPA notify WECC and affected TOPs and Balancing Authorities? (If Yes, attach evidence and reference page, section, and paragraph numbers) Q2: Does BPA take corrective actions as soon as possible? (If yes, attach evidence and reference page, section, and paragraph numbers)	4/1/2013
PRC-001-1.1 (ii)	R 3	A Generator Operator or TOP shall coordinate new protective systems and changes as follows.	Mandatory	GO, TOP		Have you made changes to new or added new protective systems during the audit period? If yes, provide evidence you coordinated with the appropriate entities.	4/1/2013
PRC-001-1.1 (ii)	R 3.2	Each TOP shall coordinate all new protective systems and all protective system changes with neighboring TOPs and Balancing Authorities.	Mandatory	TOP		Does BPA coordinate all new protective systems and all protective system changes with neighboring TOPs and Balancing Authorities? (If Yes, attach evidence and reference page, section, and paragraph numbers)	4/1/2013
PRC-001-1.1 (ii)	R 4	Each TOP shall coordinate protection systems on major transmission lines and interconnections with neighboring Generator Operators, TOPs, and Balancing Authorities.	Mandatory	TOP		Does BPA coordinate protection systems on major transmission lines and interconnections with neighboring Generator Operators, TOPs, and Balancing Authorities? (If Yes, attach evidence and reference page, section, and paragraph numbers)	4/1/2013
PRC-001-1.1 (ii)	R 5	A Generator Operator or TOP shall coordinate changes in generation, transmission, load or operating conditions that could require changes in the protection systems of others:	Mandatory	GO, TOP		Does BPA coordinate changes in generation, transmission, load or operating conditions that could require changes in the protection systems of others? (If Yes, attach evidence and reference page, section, and paragraph numbers)	4/1/2013
PRC-001-1.1 (ii)	R 5.2	Each TOP shall notify neighboring TOPs in advance of changes in generation, transmission, load, or operating conditions that could require changes in the other TOPs' protection systems.	Mandatory	TOP		Does BPA coordinate changes in transmission or load that could require changes in the protection systems of others? (If yes, attach evidence and reference page, section, and paragraph numbers)	4/1/2013

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
PRC-001-1.1 (ii)	R 5.2	Each TOP shall notify neighboring TOPs in advance of changes in generation, transmission, load, or operating conditions that could require changes in the other TOPs' protection systems.	Mandatory	TOP		Did BPA BOTH: a) Coordinate changes in operating conditions that could require changes in the protection systems of others: AND b) Notify neighboring Transmission Operators in advance of changes in operating conditions that could require changes in the other Transmission Operators' protection systems.	4/1/2013
PRC-001-1.1 (ii)	R 6	Each TOP and BA shall monitor the status of each Special Protection System in their area, and shall notify affected TOPs and Balancing Authorities of each change in status.	Mandatory	BA, TOP		Q1: Does BPA monitor the status of each Special Protection System in its area? (If Yes, attach evidence and reference page, section, and paragraph numbers) Q2: Does BPA notify affected TOPs and Balancing Authorities of each change in status? (If Yes, attach evidence and reference page, section, and paragraph numbers)	4/1/2013
PRC-004-WECC-1	R 2.3.2	When FERAS is not available, then	Mandatory	GO, TOP		See Subrequirements	10/1/2011 (inactive 3/21/2017)

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
PRC-004-WECC-1	R 2.3.2.2	TOPs shall adjust the SOL and operate the facilities within established limits.	Mandatory	TOP		"For the RAS schemes listed in the table ""Major WECC Remedial Action Schemes (RAS)"" (see standard for table), is one of the following statements true? A. BPA's REMEDIAL ACTION SCHEMES had no Security-Based or Dependability-Based Misoperations where a Functionally Equivalent REMEDIAL ACTION SCHEME was not in service to ensure Bulk Electric System reliability; or B. BPA's RAS experienced a Security-Based or Dependability-Based Misoperation where a Functionally Equivalent RAS was not in service to ensure Bulk Electric System reliability and BPA repaired the RAS that misoperated or placed it back in service within 22 hours; or C. BPA's RAS experienced a Security-Based or Dependability-Based Misoperation where a Functionally Equivalent RAS was neither available nor in service to ensure Bulk Electric System reliability, and BPA adjusted the System Operating Limit and operated the facilities within established limits. (If Yes, attach evidence and reference page, section, and paragraph numbers)"	10/1/2011 (inactive 3/21/2017)
PRC-004-WECC-2	R 2.3.2	When FERAS is not available, then	FERC Approved	GO, TOP		See Subrequirements	Mandatory as of 4/1/2017

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
PRC-004-WECC-2	R2.3.2.2	Transmission Operators shall adjust the SOL and operate the facilities within established limits.	FERC Approved	TOP		"For the RAS schemes listed in the table ""Major WECC Remedial Action Schemes (RAS)"" (see standard for table), is one of the following statements true? A. BPA's REMEDIAL ACTION SCHEMES had no Security-Based or Dependability-Based Misoperations where a Functionally Equivalent REMEDIAL ACTION SCHEME was not in service to ensure Bulk Electric System reliability; or B. BPA's RAS experienced a Security-Based or Dependability-Based Misoperation where a Functionally Equivalent RAS was not in service to ensure Bulk Electric System reliability and BPA repaired the RAS that misoperated or placed it back in service within 22 hours; or C. BPA's RAS experienced a Security-Based or Dependability-Based Misoperation where a Functionally Equivalent RAS was neither available nor in service to ensure Bulk Electric System reliability, and BPA adjusted the System Operating Limit and operated the facilities within established limits. (If Yes, attach evidence and reference page, section, and paragraph numbers)"	Mandatory as of 4/1/2017
PRC-010-0	R 1	The Load-Serving Entity, Transmission Owner, TOP, and Distribution Provider that owns or operates a UVLS program shall periodically (at least every five years or as required by changes in system conditions) conduct and document an assessment of the effectiveness of the UVLS program. This assessment shall be conducted with the associated Transmission Planner(s) and Planning Authority(ies).	Mandatory	DP, LSE, TO, TOP		Is it true that this Requirement and its sub-Requirements are Not Applicable to BPA because as of January 1, 2015, BPA does not own or operate a UVLS program?	6/18/2007
PRC-010-0	R 1.1	This assessment shall include, but is not limited to:	Mandatory	DP, LSE, TO, TOP		Is it true that this Requirement and its sub-Requirements are Not Applicable to BPA because as of January 1, 2015, BPA does not own or operate a UVLS program?	6/18/2007

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
PRC-010-0	R 1.1.1	Coordination of the UVLS programs with other protection and control systems in the Region and with other Regional Reliability Organizations, as appropriate.	Mandatory	DP, LSE, TO, TOP		Is it true that this Requirement and its sub-Requirements are Not Applicable to BPA because as of January 1, 2015, BPA does not own or operate a UVLS program?	6/18/2007
PRC-010-0	R 1.1.2	Simulations that demonstrate that the UVLS programs performance is consistent with Reliability Standards TPL-001-0, TPL-002-0, TPL-003-0 and TPL-004-0.	Mandatory	DP, LSE, TO, TOP		Is it true that this Requirement and its sub-Requirements are Not Applicable to BPA because as of January 1, 2015, BPA does not own or operate a UVLS program?	6/18/2007
PRC-010-0	R 1.1.3	A review of the voltage set points and timing.	Mandatory	DP, LSE, TO, TOP		Is it true that this Requirement and its sub-Requirements are Not Applicable to BPA because as of January 1, 2015, BPA does not own or operate a UVLS program?	6/18/2007
PRC-022-1	R 1	Each TOP, Load-Serving Entity, and Distribution Provider that operates a UVLS program to mitigate the risk of voltage collapse or voltage instability in the BES shall analyze and document all UVLS operations and Misoperations. The analysis shall include:	Mandatory	DP, LSE, TOP		See Subrequirements	6/18/2007
PRC-022-1	R 1.1	A description of the event including initiating conditions	Mandatory	DP, LSE, TOP		Is one or more of the following statements TRUE? a) BPA did not have any UVLS operations or Misoperations. b) BPA's analyses of all UVLS operations and Misoperations include a description of the event including initiating conditions. (If Yes, attach evidence and reference page, section, and paragraph numbers)	6/18/2007
PRC-022-1	R 1.2	A review of the UVLS set points and tripping times.	Mandatory	DP, LSE, TOP		Is one or more of the following statements TRUE? a) BPA did not have any UVLS operations or Misoperations. b) BPA's analyses of all UVLS operations and Misoperations include a review of the UVLS set points and tripping times. (If Yes, attach evidence and reference page, section, and paragraph numbers)	6/18/2007

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
PRC-022-1	R 1.3	A simulation of the event, if deemed appropriate by the Regional Reliability Organization. For most events, analysis of sequence of events may be sufficient and dynamic simulations may not be needed	Mandatory	DP, LSE, TOP		Is one or more of the following statements TRUE? a) BPA did not have any UVLS operations or Misoperations. b) BPA's analyses of all UVLS operations and Misoperations include a simulation of the event, if deemed appropriate by WECC? (If Yes, attach evidence and reference page, section, and paragraph numbers)	6/18/2007
PRC-022-1	R 1.4	A summary of the findings.	Mandatory	DP, LSE, TOP		Is one or more of the following statements TRUE? a) BPA did not have any UVLS operations or Misoperations. b) BPA's analyses of all UVLS operations and Misoperations include a summary of the findings? (If Yes, attach evidence and reference page, section, and paragraph numbers)	6/18/2007
PRC-022-1	R 1.5	For any Misoperation, a Corrective Action Plan to avoid future misoperations of asimilar nature	Mandatory	DP, LSE, TOP		Is one or more of the following statements TRUE? a) BPA did not have any UVLS operations or Misoperations. b) BPA's analyses of all Misoperations include a Corrective Action Plan to avoid future Misoperations of a similar nature? (If Yes, attach evidence and reference page, section, and paragraph numbers)	6/18/2007
TOP-001-1a	R 1	Each TOP shall have the responsibility and clear decision-making authority to take whatever actions are needed to ensure the reliability of its area and shall exercise specific authority to alleviate operating emergencies.	Mandatory	TOP		Q1: Does BPA have responsibility and clear decision-making authority to take whatever actions are needed to ensure the reliability of its area? (If Yes, attach evidence and reference page, section, and paragraph numbers) Q2: Does BPA exercise specific authority to alleviate operating emergencies? (If Yes, attach evidence and reference page, section, and paragraph numbers)	11/21/2011
TOP-001-1a	R 2	Each TOP shall take immediate actions to alleviate operating emergencies including curtailing transmission service or energy schedules, operating equipment (e.g., generators, phase shifters, breakers), shedding firm load, etc.	Mandatory	TOP		Does BPA take immediate actions to alleviate operating emergencies including curtailing transmission service or energy schedules, operating equipment (e.g., generators, phase shifters, breakers), shedding firm load, etc? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/26/2011

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
TOP-001-1a	R 3	Each TOP, BA, and Generator Operator shall comply with reliability directives issued by the RC, and each BA and Generator Operator shall comply with reliability directives issued by the TOP, unless such actions would violate safety, equipment, regulatory or statutory requirements. Under these circumstances the TOP, BA or Generator Operator shall immediately inform the RC or TOP of the inability to perform the directive so that the RC or TOP can implement alternate remedial actions.	Mandatory	BA, GO, TOP		Did BPA: a. comply with all reliability directives issued by WECC or a TOP, unless such actions would violate safety, equipment, regulatory, or statutory requirements; OR b. immediately inform WECC of the inability to perform the directive because to do so would violate safety, equipment, regulatory, or statutory requirements, so that alternate remedial actions could be implemented; OR c. did you provide documentation that no such requests were received? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/26/2011
TOP-001-1a	R 5	Each TOP shall inform its RC and any other potentially affected TOPs of real time or anticipated emergency conditions, and take actions to avoid, when possible, or mitigate the emergency.	Mandatory	TOP		Q1: Does BPA inform WECC and any other potentially affected TOPs of real time or anticipated emergency conditions? (If Yes, attach evidence and reference page, section, and paragraph numbers) Q2: Does BPA take actions to avoid when possible, or mitigate real time or anticipated emergency conditions? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/26/2011
TOP-001-1a	R 6	Each TOP, BA, and Generator Operator shall render all available emergency assistance to others as requested, provided that the requesting entity has implemented its comparable emergency procedures, unless such actions would violate safety, equipment, or regulatory or statutory requirements.	Mandatory	BA, GO, TOP		Does BPA render all available emergency assistance to others as requested, provided that the requesting entity has implemented its comparable emergency procedures unless such actions would violate safety, equipment, or regulatory or statutory requirements? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/26/2011
TOP-001-1a	R 7	Each TOP and Generator Operator shall not remove Bulk Electric System facilities from service if removing those facilities would burden neighboring systems unless:	Mandatory	GO, TOP		Does BPA remove Bulk Electric System facilities only if their removal does not burden neighboring systems or if the situations in R7.1 - R7.3 apply? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/26/2011

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
TOP-001-1a	R 7.1	For a generator outage, the Generator Operator shall notify and coordinate with the TOP. The TOP shall notify the RC and other affected TOPs, and coordinate the impact of removing the Bulk Electric System facility.	Mandatory	GO, TOP		For the removal of BES facilities related to a generator outage (initiated by a Generator Operator), does BPA notify and coordinate the impact of the removal of a BES facility with other affected TOPs and the RC? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/26/2011
TOP-001-1a	R 7.2	For a transmission facility, the TOP shall notify and coordinate with its RC. The TOP shall notify other affected TOPs, and coordinate the impact of removing the Bulk Electric System facility.	Mandatory	TOP		For the removal of BES transmission facilities, does BPA notify and coordinate with WECC and other affected TOPs? (If Yes, attach evidence and reference page, section, and paragraph numbers)	11/21/2011
TOP-001-1a	R 7.3	When time does not permit such notifications and coordination, or when immediate action is required to prevent a hazard to the public, lengthy customer service interruption, or damage to facilities, the Generator Operator shall notify the TOP, and the TOP shall notify its RC and adjacent TOPs, at the earliest possible time.	Mandatory	GO, TOP		In cases where time does not permit notifications and coordination regarding removal of BES facilities, or when immediate action is required to prevent a hazard to the public, lengthy customer service interruption, or damage to facilities, does BPA notify WECC and adjacent TOPs at the earliest possible time? (If Yes, attach evidence and reference page, section, and paragraph numbers)	11/21/2011
TOP-001-1a	R 8	During a system emergency, the BA and TOP shall immediately take action to restore the Real and Reactive Power Balance. If the BA or TOP is unable to restore Real and Reactive Power Balance it shall request emergency assistance from the RC. If corrective action or emergency assistance is not adequate to mitigate the Real and Reactive Power Balance, then the RC, BA, and TOP shall implement firm load shedding.	Mandatory	BA, TOP		Q1: During a system emergency, does BPA take immediate action to restore the Real and Reactive Power Balance? (If Yes, attach evidence and reference page, section, and paragraph numbers) Q2: If Real and Reactive Power Balance cannot be restored, does BPA request emergency assistance from WECC? (If Yes, attach evidence and reference page, section, and paragraph numbers) Q3: In relation to question 2 above, if corrective action or emergency assistance is not adequate to mitigate the Real and Reactive Power Balance, does BPA implement firm load shedding? (If Yes, attach evidence and reference page, section, and paragraph numbers)	11/21/2011

BPA Transmission Operator Agreement Applicable NERC Requirements

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TOP-001-3	R1.	Each Transmission Operator shall act to maintain the reliability of its Transmission Operator Area via its own actions or by issuing Operating Instructions.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: Update DSOs that reference directives to refer to Operating Instructions. The protocol developed under COM-002-4 will have impacts.	Mandatory as of 4/1/2017
TOP-001-3	R5.	Each Transmission Operator, Generator Operator, and Distribution Provider shall comply with each Operating Instruction issued by its Balancing Authority, unless such action cannot be physically implemented or it would violate safety, equipment, regulatory, or statutory requirements.	FERC Approved	DP, GOP, TOP		Not developed yet - future RSIP Implementation Approach: Update Procedures to address the TOP (System Dispatch) complying with Operating Instructions issued by its BA (AGC Desk). The protocol developed under COM-002-4 will have impacts here.	Mandatory as of 4/1/2017
TOP-001-3	R6.	Each Transmission Operator, Generator Operator, and Distribution Provider shall inform its Balancing Authority of its inability to comply with an Operating Instruction issued by its Balancing Authority.	FERC Approved	DP, GOP, TOP		Not developed yet - future RSIP Implementation Approach: Update procedures to define criteria for refusing an Operating Instruction and protocol for communicating that refusal. The protocol developed under COM-002-4 will have impacts here.	Mandatory as of 4/1/2017
TOP-001-3	R7.	Each Transmission Operator shall assist other Transmission Operators within its Reliability Coordinator Area, if requested and able, provided that the requesting Transmission Operator has implemented its comparable Emergency procedures, unless such assistance cannot be physically implemented or would violate safety, equipment, regulatory, or statutory requirements.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: Update DSOs to define requirement and criteria for assistance. Need to develop process for documenting the reason for a refusal to assist.	Mandatory as of 4/1/2017
TOP-001-3	R8.	Each Transmission Operator shall inform its Reliability Coordinator, known impacted Balancing Authorities, and known impacted Transmission Operators of its actual or expected operations that result in, or could result in, an Emergency.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: Update DSOs to address communicating actual (or potential) emergency situations through the WECC Net System (or it's replacement). Create documented procedure for communicating RTCA results to the senior dispatcher. Current communication is not consistent to address BAs and TOPs for internal paths.	Mandatory as of 4/1/2017

BPA Transmission Opertator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
TOP-001-3	R9.	Each Balancing Authority and Transmission Operator shall notify its Reliability Coordinator and known impacted interconnected entities of all planned outages, and unplanned outages of 30 minutes or more, for telemetering and control equipment, monitoring and assessment capabilities, and associated communication channels between the affected entities.	FERC Approved	BA, TOP		Not developed yet - future RSIP Implementation Approach: Update DSOs to require notification of all planned outages and any unplanned outages of 30 minutes or more and define how that notification will be sent. Need to define what equipment is in scope for this notification. Include in the RTCA procedure (mentioned in R8) the process for communicating outages to the senior dispatcher (links to R13).	Mandatory as of 4/1/2017
TOP-001-3	R10.	Each Transmission Operator shall perform the following as necessary for determining System Operating Limit (SOL) exceedances within its Transmission Operator Area: 10.1. Within its Transmission Operator Area, monitor Facilities and the status of Special Protection Systems, and 10.2. Outside its Transmission Operator Area, obtain and utilize status, voltages, and flow data for Facilities and the status of Special Protection Systems.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: Need to define what data is necessary for monitoring facilities and SPS both within and outside our TOP Area and document outside data within TOP-003-3 Data Spec Document.	Mandatory as of 4/1/2017
TOP-001-3	R10.1	Within its Transmission Operator Area, monitor Facilities and the status of Special Protection Systems, and	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: Need to define what data is necessary for monitoring facilities and SPS both within and outside our TOP Area and document outside data within TOP-003-3 Data Spec Document.	Mandatory as of 4/1/2017
TOP-001-3	R10.2	Outside its Transmission Operator Area, obtain and utilize status, voltages, and flow data for Facilities and the status of Special Protection Systems.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: Need to define what data is necessary for monitoring facilities and SPS both within and outside our TOP Area and document outside data within TOP-003-3 Data Spec Document.	Mandatory as of 4/1/2017

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
TOP-001-3	R12.	Each Transmission Operator shall not operate outside any identified Interconnection Reliability Operating Limit (IROL) for a continuous duration exceeding its associated IROL Tv.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: This is already done in BPA. No new work.	Mandatory as of 4/1/2017
TOP-001-3	R13.	Each Transmission Operator shall ensure that a Real-time Assessment is performed at least once every 30 minutes.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: 24 hour Study Engineers perform RTCA. Document a back-up plan in the case of a complete failure of BPA's RTCA (this is present plan). Senior Dispatcher reviews RTCA on off-hours and notifies on-call Engineer as needed.	Mandatory as of 4/1/2017
TOP-001-3	R14.	Each Transmission Operator shall initiate its Operating Plan to mitigate a SOL exceedance identified as part of its Real-time monitoring or Real-time Assessment.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: This is already performed for Real-time monitoring. When the 24/7 desk is staffed, this will include identifying SOL exceedance through the Real-time Assessment (RTCA). No new work.	Mandatory as of 4/1/2017
TOP-001-3	R15.	Each Transmission Operator shall inform its Reliability Coordinator of actions taken to return the System to within limits when a SOL has been exceeded.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: This is already done in BPA. Need to ensure that the RC's data specification addresses their requirements for notification under IRO-010-2.	Mandatory as of 4/1/2017
TOP-001-3	R16.	Each Transmission Operator shall provide its System Operators with the authority to approve planned outages and maintenance of its telemetering and control equipment, monitoring and assessment capabilities, and associated communication channels between affected entities.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: Document the authorities of a System Operator in DSO 136. (new requirement)	Mandatory as of 4/1/2017
TOP-001-3	R18.	Each Transmission Operator shall operate to the most limiting parameter in instances where there is a difference in SOLs.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: This is current state - may need to update documentation to show this.	Mandatory as of 4/1/2017

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
TOP-001-3	R19.	Each Transmission Operator shall have data exchange capabilities with the entities that it has identified that it needs data from in order to maintain reliability in its Transmission Operator Area.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: Need to develop evidence of data necessary for reliability of our TOP Area requested under TOP-003-3 has actually been received. (new requirement)	Mandatory as of 4/1/2017
TOP-002-2.1b	R 1	Each BA and TOP shall maintain a set of current plans that are designed to evaluate options and set procedures for reliable operation through a reasonable future time period. In addition, each BA and TOP shall be responsible for using available personnel and system equipment to implement these plans to ensure that interconnected system reliability will be maintained.	Mandatory	BA, TOP		Q1: Does BPA maintain a set of current plans that are designed to evaluate options and set procedures for reliable operation through a reasonable future time period? (If Yes, attach evidence and reference page, section, and paragraph numbers) Q2: If the answer to question 1 is Yes, does BPA use available personnel and system equipment to implement the plans to ensure that interconnected system reliability will be maintained? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/13/2012
TOP-002-2.1b	R 2	Each BA and TOP shall ensure its operating personnel participate in the system planning and design study processes, so that these studies contain the operating personnel perspective and system operating personnel are aware of the planning purpose.	Mandatory	BA, TOP		Does BPA ensure that its operating personnel participate in the system planning and design study processes (so that these studies contain the operating personnel perspective and system operating personnel are aware of the planning purpose)? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/13/2012
TOP-002-2.1b	R 4	Each BA and TOP shall coordinate (where confidentiality agreements allow) its current-day, next-day, and seasonal planning and operations with neighboring Balancing Authorities and TOPs and with its RC, so that normal Interconnection operation will proceed in an orderly and consistent manner.	Mandatory	BA, TOP		Where confidentiality agreements allow, does BPA coordinate its current-day, next-day, and seasonal operations with neighboring Balancing Authorities and TOPs and with WECC, so that normal Interconnection operation will proceed in an orderly and consistent manner? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/13/2012
TOP-002-2.1b	R 5	Each BA and TOP shall plan to meet scheduled system configuration, generation dispatch, interchange scheduling and demand patterns.	Mandatory	BA, TOP		Does BPA plan to meet scheduled system configuration, generation dispatch, interchange scheduling and demand patterns? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/13/2012

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
TOP-002-2.1b	R 6	Each BA and TOP shall plan to meet unscheduled changes in system configuration and generation dispatch (at a minimum N-1 Contingency planning) in accordance with NERC, Regional Reliability Organization, subregional, and local reliability requirements.	Mandatory	BA, TOP		Does BPA plan to meet unscheduled changes in system configuration and generation dispatch (at a minimum of N-1 Contingency planning) in accordance with NERC, WECC, subregional, and local reliability requirements? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/13/2012
TOP-002-2.1b	R10	Each BA and TOP shall plan to meet all System Operating Limits (SOLs) and Interconnection Reliability Operating Limits (IROLs).	Mandatory	BA, TOP		Does BPA plan to meet all System Operating Limits (SOLs) and Interconnection Reliability Operating Limits (IROLs)? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/13/2012
TOP-002-2.1b	R11	The TOP shall perform seasonal, next-day, and current-day Bulk Electric System studies to determine SOLs. Neighboring TOPs shall utilize identical SOLs for common facilities. The TOP shall update these Bulk Electric System studies as necessary to reflect current system conditions; and shall make the results of Bulk Electric System studies available to the TOPs, Balancing Authorities (subject to confidentiality requirements), and to its RC.	Mandatory	TOP		Q1: Does BPA perform seasonal, next-day, and current-day Bulk Electric System studies to determine System Operating Limits (SOLs)? (If Yes, attach evidence and reference page, section, and paragraph numbers) Q2: Does BPA utilize identical SOLs to those of its Neighboring TOPs for common facilities? (If Yes, attach evidence and reference page, section, and paragraph numbers) Q3: Does BPA update the Bulk Electric System studies as necessary to reflect current system conditions and make the results available to TOP and Balancing Authorities (subject to confidentiality requirements), as well as to WECC? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/13/2012
TOP-002-2.1b	R16	Subject to standards of conduct and confidentiality agreements, TOPs shall, without any intentional time delay, notify their RC and BA of changes in capabilities and characteristics including but not limited to:	Mandatory	TOP		See Subrequirements	9/13/2012
TOP-002-2.1b	R16.1	Changes in transmission facility status.	Mandatory	TOP		Subject to standards of conduct and confidentiality agreements and without any intentional time delay, does BPA notify WECC and its BA function of changes in Transmission facility status? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/13/2012

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
TOP-002-2.1b	R16.2	Changes in transmission facility rating.	Mandatory	TOP		Subject to standards of conduct and confidentiality agreements and without any intentional time delay, does BPA notify WECC and its BA function of changes in transmission facility ratings? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/13/2012
TOP-002-2.1b	R17	Balancing Authorities and TOPs shall, without any intentional time delay, communicate the information described in the requirements R1 to R16 above to their RC.	Mandatory	BA, TOP		Does BPA, without any intentional time delay, communicate the information described in Standard TOP-001 R1 through R16 to WECC? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/13/2012
TOP-002-2.1b	R18	Neighboring Balancing Authorities, TOPs, Generator Operators, Transmission Service Providers and Load Serving Entities shall use uniform line identifiers when referring to transmission facilities of an interconnected network.	Mandatory	BA, GO, LSE, TOP, Transmission Service Provider		When referring to transmission facilities of an interconnected network, does BPA use line identifiers that are uniform with those of Neighboring Balancing Authorities, TOPs, Generator Operators, Transmission Service Providers, and Load-Serving Entities? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/13/2012
TOP-002-2.1b	R19	Each BA and TOP shall maintain accurate computer models utilized for analyzing and planning system operations.	Mandatory	BA, TOP		Does BPA maintain accurate computer models for analyzing and planning system operations? (If Yes, attach evidence and reference page, section, and paragraph numbers)	9/13/2012
TOP-002-4	R1.	Each Transmission Operator shall have an Operational Planning Analysis that will allow it to assess whether its planned operations for the next day within its Transmission Operator Area will exceed any of its System Operating Limits (SOLs).	FERC Approved	TOP		<p>Not developed yet - future RSIP</p> <p>Implementation Approach: Need to broaden the current next-day study process to include verification that planned operations will not exceed projected path SOLs. Also need to establish a minimum 7 day real-time study team.</p>	Mandatory as of 4/1/2017

BPA Transmission Operator Agreement Applicable NERC Requirements

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TOP-002-4	R2.	Each Transmission Operator shall have an Operating Plan(s) for next-day operations to address potential System Operating Limit (SOL) exceedances identified as a result of its Operational Planning Analysis as required in Requirement R1.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: The Mitigation SLIMs are the R2 Operating Plan. Need to develop controls to ensure this requirement is consistently met and documented. The Next-Day Study Summary Report is the R2 Operating Plan. Need to develop controls to ensure this requirement is consistently met and documented.	Mandatory as of 4/1/2017
TOP-002-4	R3.	Each Transmission Operator shall notify entities identified in the Operating Plan(s) cited in Requirement R2 as to their role in those plan(s).	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: Need to produce processes/procedures to track notification to entities of their involvement in the next-day operating plan. This notification is formally done from dispatcher to dispatcher. The study engineers coordinate with the affected entities prior to this formal notification. (new requirement)	Mandatory as of 4/1/2017
TOP-002-4	R6.	Each Transmission Operator shall provide its Operating Plan(s) for next-day operations identified in Requirement R2 to its Reliability Coordinator.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: Currently TOT provides a summary of the Mitigation SLIMs to the RC, this may need to change to be the full Mitigation SLIM provided. The RC already has copies of BPA's relevant DSOs, path limits associated with the planned outage SLIM, summary of actions from mitigation SLIMs, and results of OPA. (new requirement)	Mandatory as of 4/1/2017
TOP-003-1	R 1	Generator Operators and TOPs shall provide planned outage information.	Mandatory	GO, TOP		Describe your methodology for determining transmission or generation elements that do not need to be reported.	10/1/2011
TOP-003-1	R 1.1	Each Generator Operator shall provide outage information daily to its TOP for scheduled generator outages planned for the next day (any foreseen outage of a generator greater than 50 MW). The TOP shall establish the outage reporting requirements.	Mandatory	GO, TOP		Has BPA established the outage reporting requirements for its Generator Operators? (If Yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2011

BPA Transmission Operator Agreement Applicable NERC Requirements

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TOP-003-1	R 1.2	Each TOP shall provide outage information daily to affected Balancing Authorities and TOPs for scheduled generator and bulk transmission outages planned for the next day (any foreseen outage of a transmission line or transformer greater than 100 kV or generator greater than 50 MW) that may collectively cause or contribute to an SOL or IROL violation or a regional operating area limitation.	Mandatory	TOP		Does BPA provide outage information on a daily basis to affected Balancing Authorities and TOPs for scheduled generator and bulk transmission outages planned for the next day (any foreseen outage of a transmission line or transformer greater than 100 kV or generator greater than 50 MW) that may collectively cause or contribute to an SOL or IROL violation or a regional operating area limitation? (If Yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2011
TOP-003-1	R 1.3	Such information shall be available by 1200 Central Standard Time for the Eastern Interconnection and 1200 Pacific Standard Time for the Western Interconnection.	Mandatory	GO, TOP		THERE IS A NERC CAN FOR THIS REQUIREMENT. Does BPA make its outage information available by 1200 Pacific Standard Time for the Western Interconnection? (If Yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2011
TOP-003-1	R 2	Each TOP, BA, and Generator Operator shall plan and coordinate scheduled outages of system voltage regulating equipment, such as automatic voltage regulators on generators, supplementary excitation control, synchronous condensers, shunt and series capacitors, reactors, etc., among affected Balancing Authorities and TOPs as required.	Mandatory	BA, GO, TOP		Does BPA plan and coordinate scheduled outages of system voltage regulating equipment, such as automatic voltage regulators on generators, supplementary excitation control, synchronous condensers, shunt and series capacitors, reactors, etc., with other Balancing Authorities and TOPs as required? (If Yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2011
TOP-003-1	R 3	Each TOP, BA, and Generator Operator shall plan and coordinate scheduled outages of telemetering and control equipment and associated communication channels between the affected areas.	Mandatory	BA, GO, TOP		Does BPA plan and coordinate scheduled outages of telemetering and control equipment and associated communication channels between the affected areas? (If Yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2011
TOP-003-3	R1.	Each Transmission Operator shall maintain a documented specification for the data necessary for it to perform its Operational Planning Analyses, Real-time monitoring, and Real-time Assessments. The data specification shall include, but not be limited to:	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: Use Peak RC specification document as a starting point, and edit as appropriate. Level of required data detail to be determined. There may be unique data specifications for specific entities.	Mandatory as of 1/1/2017

BPA Transmission Operator Agreement Applicable NERC Requirements

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TOP-003-3	R1.1.	A list of data and information needed by the Transmission Operator to support its Operational Planning Analyses, Real-time monitoring, and Real-time Assessments including non-BES data and external network data as deemed necessary by the Transmission Operator.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: Use Peak RC specification document as a starting point, and edit as appropriate. Level of required data detail to be determined. There may be unique data specifications for specific entities.	Mandatory as of 1/1/2017
TOP-003-3	R1.2.	Provisions for notification of current Protection System and Special Protection System status or degradation that impacts System reliability.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: Use Peak RC specification document as a starting point, and edit as appropriate. Level of required data detail to be determined. There may be unique data specifications for specific entities.	Mandatory as of 1/1/2017
TOP-003-3	R1.3.	A periodicity for providing data.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: Use Peak RC specification document as a starting point, and edit as appropriate. Level of required data detail to be determined. There may be unique data specifications for specific entities.	Mandatory as of 1/1/2017
TOP-003-3	R1.4.	The deadline by which the respondent is to provide the indicated data.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: Use Peak RC specification document as a starting point, and edit as appropriate. Level of required data detail to be determined. There may be unique data specifications for specific entities.	Mandatory as of 1/1/2017
TOP-003-3	R3.	Each Transmission Operator shall distribute its data specification to entities that have data required by the Transmission Operator's Operational Planning Analyses, Real-time monitoring, and Real-time Assessment.	FERC Approved	TOP		Not developed yet - future RSIP Implementation Approach: Need to distribute (email) BPA's Data Specification to entities with a link to the document on BPA's OASIS. Need to determine which entities fit this criteria. (this is a new requirement)	Mandatory as of 1/1/2017

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
TOP-003-3	R5.	Each Transmission Operator, Balancing Authority, Generator Owner, Generator Operator, Load-Serving Entity, Transmission Owner, and Distribution Provider receiving a data specification in Requirement R3 or R4 shall satisfy the obligations of the documented specifications using:	FERC Approved	BA, GO, GOP, DP, LSE, TO, TOP		<p>Not developed yet - future RSIP</p> <p>Implementation Approach: Need to develop process for receiving new data requests and confirming implementation. Confirmations (where possible) from requesting entities that BPA is providing the required data categories is best.</p> <p>Where no confirmation is provided, BPA needs to document general data provided (full ICCP points list, EIDE, etc).</p>	Mandatory as of 4/1/2017
TOP-003-3	R5.1.	A mutually agreeable format	FERC Approved	BA, GO, GOP, DP, LSE, TO, TOP		<p>Not developed yet - future RSIP</p> <p>Implementation Approach: Need to develop process for receiving new data requests and confirming implementation. Confirmations (where possible) from requesting entities that BPA is providing the required data categories is best.</p> <p>Where no confirmation is provided, BPA needs to document general data provided (full ICCP points list, EIDE, etc).</p>	Mandatory as of 4/1/2017

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
TOP-003-3	R5.2.	A mutually agreeable process for resolving data conflicts	FERC Approved	BA, GO, GOP, DP, LSE, TO, TOP		<p>Not developed yet - future RSIP</p> <p>Implementation Approach: Need to develop process for receiving new data requests and confirming implementation. Confirmations (where possible) from requesting entities that BPA is providing the required data categories is best.</p> <p>Where no confirmation is provided, BPA needs to document general data provided (full ICCP points list, EIDE, etc).</p>	Mandatory as of 4/1/2017
TOP-003-3	R5.3.	A mutually agreeable security protocol	FERC Approved	BA, GO, GOP, DP, LSE, TO, TOP		<p>Not developed yet - future RSIP</p> <p>Implementation Approach: Need to develop process for receiving new data requests and confirming implementation. Confirmations (where possible) from requesting entities that BPA is providing the required data categories is best.</p> <p>Where no confirmation is provided, BPA needs to document general data provided (full ICCP points list, EIDE, etc).</p>	Mandatory as of 4/1/2017
TOP-004-2	R1	Each TOP shall operate within the Interconnection Reliability Operating Limits (IROLs) and System Operating Limits (SOLs).	Mandatory	TOP		Does BPA operate within the Interconnection Reliability Operating Limits (IROLs) and System Operating Limits (SOLs)? (If Yes, attach evidence and reference page, section, and paragraph numbers)	1/22/2009
TOP-004-2	R2	Each TOP shall operate so that instability, uncontrolled separation, or cascading outages will not occur as a result of the most severe single contingency.	Mandatory	TOP		Does BPA operate so that instability, uncontrolled separation, or cascading outages will not occur as a result of the most severe single contingency? (If Yes, attach evidence and reference page, section, and paragraph numbers)	1/22/2009

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
TOP-004-2	R3	Each TOP shall operate to protect against instability, uncontrolled separation, or cascading outages resulting from multiple outages, as specified by its RC.	Mandatory	TOP		Does BPA operate to protect against instability, uncontrolled separation, or cascading outages resulting from multiple outages, as specified by WECC? (If Yes, attach evidence and reference page, section, and paragraph numbers)	1/22/2009
TOP-004-2	R4	If a TOP enters an unknown operating state (i.e. any state for which valid operating limits have not been determined), it will be considered to be in an emergency and shall restore operations to respect proven reliable power system limits within 30 minutes.	Mandatory	TOP		Q1: If BPA enters an unknown operating state (i.e. any state for which valid operating limits have not been determined), does it consider the unknown operating state as an emergency? (If Yes, attach evidence and reference page, section, and paragraph numbers) Q2: If the answer to Question 1 is Yes, does BPA restore operations to respect proven reliable power system limits within 30 minutes? (If Yes, attach evidence and reference page, section, and paragraph numbers)	1/22/2009
TOP-004-2	R5	Each TOP shall make every effort to remain connected to the Interconnection. If the TOP determines that by remaining interconnected, it is in imminent danger of violating an IROL or SOL, the TOP may take such actions, as it deems necessary, to protect its area.	Mandatory	TOP		Q1: Does BPA make every effort to remain connected to the Interconnection? (If Yes, attach evidence and reference page, section, and paragraph numbers) Q2: If BPA determines that by remaining interconnected, it is in imminent danger of violating an IROL or SOL, does BPA take actions it deems necessary to protect its area? (If Yes, attach evidence and reference page, section, and paragraph numbers)	1/22/2009
TOP-004-2	R6	TOPs, individually and jointly with other TOPs, shall develop, maintain, and implement formal policies and procedures to provide for transmission reliability. These policies and procedures shall address the execution and coordination of activities that impact inter- and intra-Regional reliability, including:	Mandatory	TOP		See Subrequirements	1/22/2009

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
TOP-004-2	R6.1	Monitoring and controlling voltage levels and real and reactive power flows.	Mandatory	TOP		<p>Q1: Does BPA, both individually and jointly with other TOPs, develop and maintain formal policies and procedures to provide for transmission reliability, including at least the execution and coordination of the following R6.1 Activities that impact inter- and intra-Regional reliability including monitoring and controlling voltage levels and real and reactive power flows? (If Yes, attach evidence and reference page, section, and paragraph numbers)</p> <p>Q2: Does BPA, both individually and jointly with other TOPs, implement formal policies and procedures to provide for transmission reliability, including at least the execution and coordination of the following R6.1 Activities that impact inter- and intra-Regional reliability including monitoring and controlling voltage levels and real and reactive power flows? (If Yes, attach evidence and reference page, section, and paragraph numbers)</p>	1/22/2009

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
TOP-004-2	R6.1	Monitoring and controlling voltage levels and real and reactive power flows.	Mandatory	TOP		<p>Q1: Does BPA, both individually and jointly with other TOPs, develop and maintain formal policies and procedures to provide for transmission reliability, including at least the execution and coordination of the following R6.1 Activities that impact inter- and intra-Regional reliability including monitoring and controlling voltage levels and real and reactive power flows? (If Yes, attach evidence and reference page, section, and paragraph numbers)</p> <p>Q2: Does BPA, both individually and jointly with other TOPs, implement formal policies and procedures to provide for transmission reliability, including at least the execution and coordination of the following R6.1 Activities that impact inter- and intra-Regional reliability including monitoring and controlling voltage levels and real and reactive power flows? (If Yes, attach evidence and reference page, section, and paragraph numbers)</p>	1/22/2009
TOP-004-2	R6.2	Switching transmission elements.	Mandatory	TOP		<p>Q1: Does BPA, both individually and jointly with other TOPs, develop and maintain formal policies and procedures to provide for transmission reliability, including at least the execution and coordination of the following: R6.2 Activities that impact inter- and intra-Regional reliability including switching transmission elements? (If Yes, attach evidence and reference page, section, and paragraph numbers)</p> <p>Q2: Does BPA, both individually and jointly with other TOPs, implement formal policies and procedures to provide for transmission reliability, including at least the execution and coordination of the following: R6.2 Activities that impact inter- and intra-Regional reliability including switching transmission elements? (If Yes, attach evidence and reference page, section, and paragraph numbers)</p>	1/22/2009

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
TOP-004-2	R6.2	Switching transmission elements.	Mandatory	TOP		<p>Q1: Does BPA, both individually and jointly with other TOPs, develop and maintain formal policies and procedures to provide for transmission reliability, including at least the execution and coordination of the following: R6.2 Activities that impact inter- and intra-Regional reliability including switching transmission elements? (If Yes, attach evidence and reference page, section, and paragraph numbers)</p> <p>Q2: Does BPA, both individually and jointly with other TOPs, implement formal policies and procedures to provide for transmission reliability, including at least the execution and coordination of the following: R6.2 Activities that impact inter- and intra-Regional reliability including switching transmission elements? (If Yes, attach evidence and reference page, section, and paragraph numbers)</p>	1/22/2009
TOP-004-2	R6.3	Planned outages of transmission elements.	Mandatory	TOP		<p>Q1: Does BPA, both individually and jointly with other TOPs, develop and maintain formal policies and procedures to provide for transmission reliability, including at least the execution and coordination of the following: R6.3 Activities that impact inter- and intra-Regional reliability including planned outages of transmission elements? (If Yes, attach evidence and reference page, section, and paragraph numbers)</p> <p>Q2: Does BPA, both individually and jointly with other TOPs, implement formal policies and procedures to provide for transmission reliability, including at least the execution and coordination of the following: R6.3 Activities that impact inter- and intra-Regional reliability including planned outages of transmission elements? (If Yes, attach evidence and reference page, section, and paragraph numbers)</p>	1/22/2009

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
TOP-004-2	R6.3	Planned outages of transmission elements.	Mandatory	TOP		<p>Q1: Does BPA, both individually and jointly with other TOPs, develop and maintain formal policies and procedures to provide for transmission reliability, including at least the execution and coordination of the following: R6.3 Activities that impact inter- and intra-Regional reliability including planned outages of transmission elements? (If Yes, attach evidence and reference page, section, and paragraph numbers)</p> <p>Q2: Does BPA, both individually and jointly with other TOPs, implement formal policies and procedures to provide for transmission reliability, including at least the execution and coordination of the following: R6.3 Activities that impact inter- and intra-Regional reliability including planned outages of transmission elements? (If Yes, attach evidence and reference page, section, and paragraph numbers)</p>	1/22/2009
TOP-004-2	R6.4	Responding to IROL and SOL violations.	Mandatory	TOP		<p>Q1: Does BPA, both individually and jointly with other TOPs, develop and maintain formal policies and procedures to provide for transmission reliability, including at least the execution and coordination of the following: R6.4 Activities that impact inter- and intra-Regional reliability including responding to IROL and SOL violations? (If Yes, attach evidence and reference page, section, and paragraph numbers)</p> <p>Q2: Does BPA, both individually and jointly with other TOPs, implement formal policies and procedures to provide for transmission reliability, including at least the execution and coordination of the following: R6.4 Activities that impact inter- and intra-Regional reliability including responding to IROL and SOL violations? (If Yes, attach evidence and reference page, section, and paragraph numbers)</p>	1/22/2009

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
TOP-004-2	R6.4	Responding to IROL and SOL violations.	Mandatory	TOP		Q1: Does BPA, both individually and jointly with other TOPs, develop and maintain formal policies and procedures to provide for transmission reliability, including at least the execution and coordination of the following: R6.4 Activities that impact inter- and intra-Regional reliability including responding to IROL and SOL violations? (If Yes, attach evidence and reference page, section, and paragraph numbers) Q2: Does BPA, both individually and jointly with other TOPs, implement formal policies and procedures to provide for transmission reliability, including at least the execution and coordination of the following: R6.4 Activities that impact inter- and intra-Regional reliability including responding to IROL and SOL violations? (If Yes, attach evidence and reference page, section, and paragraph numbers)	1/22/2009
TOP-005-2a	R 1	As a condition of receiving data from the Interregional Security Network (ISN), each ISN data recipient shall sign the NERC Confidentiality Agreement for "Electric System Reliability Data."	Mandatory	BA, TOP		Is it true that this Requirement is Not Applicable because BPA does not receive data from the Interregional Security Network (ISN)? (If yes, attach the Not Applicable Memo)	10/1/2011

BPA Transmission Operator Agreement Applicable NERC Requirements

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TOP-005-2a	R 2	Upon request, each BA and TOP shall provide to other Balancing Authorities and TOPs with immediate responsibility for operational reliability, the operating data that are necessary to allow these Balancing Authorities and TOPs to perform operational reliability assessments and to coordinate reliable operations. Balancing Authorities and TOPs shall provide the types of data as listed in Attachment 1-TOP-005 "Electric System Reliability Data," unless otherwise agreed to by the Balancing Authorities and TOPs with immediate responsibility for operational reliability.	Mandatory	BA, TOP		Did BPA do one of the following: a. Respond to all requests from other Balancing Authorities and Transmission Operators with immediate responsibility for operational reliability, the operating data that are necessary to allow these Balancing Authorities and Transmission Operators to perform operational reliability assessments and to coordinate reliable operations; AND Provide the types of data listed in Attachment 1-TOP-005-0 "Electric System Reliability Data," unless otherwise agreed to by the other Balancing Authorities and Transmission Operators; OR b. Provide documentation that no such requests were received? (If yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2011
TOP-006-2	R 1	Each TOP and BA shall know the status of all generation and transmission resources available for use.	Mandatory	BA, GOP, TOP		Does BPA know the status of all generation and transmission resources available for use? (If Yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2011
TOP-006-2	R 1.2	Each TOP and BA shall inform the RC and other affected Balancing Authorities and TOPs of all generation and transmission resources available for use.	Mandatory	BA, TOP		Does BPA inform WECC and other affected Balancing Authorities and Transmission Operators of all generation and transmission resources available for use? (If yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2011
TOP-006-2	R 2	Each RC, TOP, and BA shall monitor applicable transmission line status, real and reactive power flows, voltage, load-tap-changer settings, and status of rotating and static reactive resources.	Mandatory	BA, RC, TOP		Does BPA monitor applicable transmission line status, real and reactive power flows, voltage, load tap-changer settings, and status of rotating and static reactive resources? (If Yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2011

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TOP-006-2	R 3	Each RC, TOP, and BA shall provide appropriate technical information concerning protective relays to their operating personnel.	Mandatory	BA, RC, TOP		Does BPA provide appropriate technical information concerning protective relays to its operating personnel? (If yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2011
TOP-006-2	R 4	Each TOP, and BA shall have information, including weather forecasts and past load patterns, available to predict the system's near-term load pattern.	Mandatory	BA, TOP		Does BPA have information including weather forecasts and past load patterns available to predict the system's near-term load pattern? (If Yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2011
TOP-006-2	R 5	Each RC, TOP, and BA shall use monitoring equipment to bring to the attention of operating personnel important deviations in operating conditions and to indicate, if appropriate, the need for corrective action.	Mandatory	BA, RC, TOP		Does BPA use monitoring equipment to bring important deviations in operating conditions to the attention of operating personnel and to indicate the need for corrective action, if appropriate? (If Yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2011
TOP-006-2	R 6	Each BA and TOP shall use sufficient metering of suitable range, accuracy and sampling rate (if applicable) to ensure accurate and timely monitoring of operating conditions under both normal and emergency situations.	Mandatory	BA, TOP		Does BPA use sufficient metering of suitable range, accuracy and sampling rate (if applicable) to ensure accurate and timely monitoring of operating conditions under both normal and emergency situations? (If Yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2011
TOP-006-2	R 7	Each RC, TOP, and BA shall monitor system frequency.	Mandatory	BA, RC, TOP		Does BPA monitor system frequency? (If Yes, attach evidence and reference page, section, and paragraph numbers)	10/1/2011
TOP-007-0	R 1	A TOP shall inform its RC when an IROL or SOL has been exceeded and the actions being taken to return the system to within limits.	Mandatory	TOP		Does BPA inform WECC when an Interconnection Reliability Operating Limit (IROL) or System Operating Limit (SOL) has been exceeded and inform WECC of the actions taken to return the system to within limits? (If Yes, attach evidence and reference page, section, and paragraph numbers)	6/18/2007
TOP-007-0	R 2	Following a Contingency or other event that results in an IROL violation, the TOP shall return its transmission system to within IROL as soon as possible, but not longer than 30 minutes.	Mandatory	TOP		Following a Contingency or other event that results in an IROL violation, does BPA return its transmission system to within IROL as soon as possible, but not longer than 30 minutes? (If Yes, attach evidence and reference page, section, and paragraph numbers)	6/18/2007

BPA Transmission Operator Agreement Applicable NERC Requirements

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TOP-007-0	R 3	A TOP shall take all appropriate actions up to and including shedding firm load, or directing the shedding of firm load, in order to comply with Requirement R 2.	Mandatory	TOP		Does BPA take all appropriate actions up to and including shedding firm load or directing the shedding of firm load in order to return its transmission system to within IROL as soon as possible, but not longer than 30 minutes? (If Yes, attach evidence and reference page, section, and paragraph numbers)	6/18/2007
TOP-007-WECC-1a	R 1	When the actual power flow exceeds an SOL for a Transmission path, the TOPs shall take immediate action to reduce the actual power flow across the path such that at no time shall the power flow for the Transmission path exceed the SOL for more than 30 minutes. [Violation Risk Factor: Medium] [Time Horizon: Real-time Operations]	Mandatory	TOP		For the major transmission paths listed in the table ""Major WECC Transmission Paths in the Bulk Electric System"" (see standard for table), is one of the following statements true: A. BPA did not have an instance during this period wherein the actual power flow exceed a System Operating Limit for an applicable Transmission path; or B. BPA takes immediate action to reduce the actual power flow across a Transmission path, when the actual power flow exceeds a System Operating Limit, such that at no time the power flow exceeds the System Operating Limit for more than 30 minutes? (If Yes, attach evidence and reference page, section, and paragraph numbers)	6/18/2014
TOP-007-WECC-1a	R 2	The TOP shall not have the Net Scheduled Interchange for power flow over an interconnection or Transmission path above the path's SOL when the TOP implements its real-time schedules for the next hour. For paths internal to a TOP Area that are not scheduled, this requirement does not apply. [Violation Risk Factor: Low] [Time Horizon: Real-time Operations]	Mandatory	TOP		For the major transmission paths listed in the table ""Major WECC Transmission Paths in the Bulk Electric System"" (see standard for table), is one the following statements true: A. BPA did not have an instance during this period wherein the Net Scheduled Interchange for power flow over an interconnection or Transmission path was above the path's System Operating Limit when implementing its real-time schedules for the next hour; or B. BPA identified a path System Operating Limit decrease within 20 minutes of the hour, and adjusted the Net Scheduled Interchange within 30 minutes to the new System Operating Limit value. (If Yes, attach evidence and reference page, section, and paragraph numbers)	6/18/2014

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TOP-007-WECC-1a	R 2.1	If the path SOL decreases within 20 minutes before the start of the hour, the TOP shall adjust the Net Scheduled Interchange within 30 minutes to the new SOL value. Net Scheduled Interchange exceeding the new SOL during this 30-minute period will not be a violation of R2.	Mandatory	TOP		See R2	6/18/2014
TOP-008-1	R 1	The TOP experiencing or contributing to an IROL or SOL violation shall take immediate steps to relieve the condition, which may include shedding firm load.	Mandatory	TOP		When experiencing or contributing to an Interconnection Reliability Operating Limit (IROL) or System Operating Limit (SOL) violation, does BPA take immediate steps to relieve the condition, which may include shedding firm load? (If Yes, attach evidence and reference page, section, and paragraph numbers)	6/18/2007
TOP-008-1	R 2	Each TOP shall operate to prevent the likelihood that a disturbance, action, or inaction will result in an IROL or SOL violation in its area or another area of the Interconnection. In instances where there is a difference in derived operating limits, the TOP shall always operate the Bulk Electric System to the most limiting parameter.	Mandatory	TOP		Q1: Does BPA operate to prevent the likelihood that a disturbance, action, or inaction will result in an IROL or SOL violation in its area or another area of the Interconnection? (If Yes, attach evidence and reference page, section, and paragraph numbers) Q2: In instances where there is a difference in derived operating limits, does BPA operate the Bulk Electric System to the most limiting parameter? (If Yes, attach evidence and reference page, section, and paragraph numbers)	6/18/2007
TOP-008-1	R 3	The TOP shall disconnect the affected facility if the overload on a transmission facility or abnormal voltage or reactive condition persists and equipment is endangered. In doing so, the TOP shall notify its RC and all neighboring TOPs impacted by the disconnection prior to switching, if time permits, otherwise, immediately thereafter.	Mandatory	TOP		Q1: Does BPA disconnect the affected facility if the overload on a transmission facility or abnormal voltage or reactive condition persists and equipment is endangered? (If Yes, attach evidence and reference page, section, and paragraph numbers) Q2: If BPA disconnects the affected facility, does it notify WECC and all neighboring TOPs impacted by the disconnection prior to switching, if time permits, otherwise, immediately thereafter? (If Yes, attach evidence and reference page, section, and paragraph numbers)	6/18/2007

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TOP-008-1	R 4	The TOP shall have sufficient information and analysis tools to determine the cause(s) of SOL violations. This analysis shall be conducted in all operating timeframes. The TOP shall use the results of these analyses to immediately mitigate the SOL violation.	Mandatory	TOP		Q1: Does BPA have sufficient information and analysis tools to determine the cause(s) of SOL violations? (If Yes, attach evidence and reference page, section, and paragraph numbers) Q2: Does BPA conduct SOL violation analyses in all operating timeframes and use the results of these analyses to immediately mitigate the SOL violation? (If Yes, attach evidence and reference page, section, and paragraph numbers)	6/18/2007
VAR-001-4.1	R 1	Each TOP shall specify a system voltage schedule (which is either a range or a target value with an associated tolerance band) as part of its plan to operate within System Operating Limits and Interconnection Reliability Operating Limits. [Violation Risk Factor: High] [Time Horizon: Operational Planning]	Mandatory	TOP		Does BPA specify a system voltage schedule (which is either a range or a target value with an associated tolerance band) as part of its plan to operate within System Operating Limits and Interconnection Reliability Operating Limits?	11/13/2015
VAR-001-4.1	R 1.1	Each TOP shall provide a copy of the voltage schedules (which is either a range or a target value with an associated tolerance band) to its RC and adjacent TOPs within 30 calendar days of a request.	Mandatory	TOP		Does BPA provide a copy of the voltage schedules (which is either a range or a target value with an associated tolerance band) to its Reliability Coordinator and adjacent Transmission Operators within 30 calendar days of a request?	11/13/2015
VAR-001-4.1	R 2	Each TOP shall schedule sufficient reactive resources to regulate voltage levels under normal and Contingency conditions. TOPs can provide sufficient reactive resources through various means including, but not limited to, reactive generation scheduling, transmission line and reactive resource switching, and using controllable load. [Violation Risk Factor: High] [Time Horizon: Real-time Operations, Same-day Operations, and Operational Planning]	Mandatory	TOP		Does BPA schedule sufficient reactive resources to regulate voltage levels under normal and Contingency conditions? (Transmission Operators can provide sufficient reactive resources through various means including, but not limited to, reactive generation scheduling, transmission line and reactive resource switching, and using controllable load.)	11/13/2015
VAR-001-4.1	R 3	Each TOP shall operate or direct the Real-time operation of devices to regulate transmission voltage and reactive flow as necessary. [Violation Risk Factor: High] [Time Horizon: Real-time Operations, Same-day Operations, and Operational Planning]	Mandatory	TOP		Does BPA operate or direct the Real-time operation of devices to regulate transmission voltage and reactive flow as necessary?	11/13/2015

BPA Transmission Operator Agreement Applicable NERC Requirements

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VAR-001-4.1	R 4 N/A	The TOP shall specify the criteria that will exempt generators from: 1) following a voltage or Reactive Power schedule, 2) from having its automatic voltage regulator (AVR) in service or from being in voltage control mode, or 3) from having to make any associated notifications. [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		Is this requirement, under the Regional Variance for the WECC region, not applicable to BPA, as it has been deleted according to the NERC standard?	11/13/2015
VAR-001-4.1	R 4.1 N/A	If a TOP determines that a generator has satisfied the exemption criteria, it shall notify the associated Generator Operator.	Mandatory	TOP		See R4	11/13/2015
VAR-001-4.1	R 5 - E.A.13	Each TOP shall issue any one of the following types of voltage schedules to the Generator Operators for each of their generation resources that are on-line and part of the Bulk Electric System within the TOP Area: [Violation Risk Factor: Medium] [Time Horizon: Operations Planning and Same-day Operations] <ul style="list-style-type: none"> • A voltage set point with a voltage tolerance band and a specified period. • An initial volt-ampere reactive output or initial power factor output with a voltage tolerance band for a specified period that the Generator Operator uses to establish a generator bus voltage set point. • A voltage band for a specified period. 	Mandatory	TOP		Does BPA issue one of the following types of voltage schedules to the Generator Operators for each of their generation resources that are on-line and part of the Bulk Electric System within the TOP Area? <ul style="list-style-type: none"> • A voltage set point with a voltage tolerance band and a specified period; • An initial volt-ampere reactive output or initial power factor output with a voltage tolerance band for a specified period that the Generator Operator uses to establish a generator bus voltage set point; OR • A voltage band for a specified period. 	11/13/2015
VAR-001-4.1	R 5 - E.A.14	Each TOP shall provide one of the following voltage schedule reference points for each generation resource in its Area to the Generator Operator. [Violation Risk Factor: Medium] [Time Horizon: Operations Planning and Same-day Operations] <ul style="list-style-type: none"> • The generator terminals. • The high side of the generator step-up transformer. • The point of interconnection. • A location designated by mutual agreement between the TOP and Generator Operator. 	Mandatory	TOP		Does BPA provide one of the following voltage schedule reference points for each generation resource in its Area to the Generator Operator? <ul style="list-style-type: none"> • The generator terminals; • The high side of the generator step-up transformer; • The point of interconnection; OR • A location designated by mutual agreement between the TOP and Generator Operator. 	11/13/2015

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VAR-001-4.1	R 5 - E.A.17	Each TOP shall provide to the Generator Operator, within 30 calendar days of a request for data by the Generator Operator, its transmission equipment data and operating data that supports development of the voltage set point conversion methodology. [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		Is one of the following statements true? A. BPA provides to the Generator Operator its transmission equipment data and operating data that supports development of the voltage set point conversion methodology within 30 calendar days of a request for data by the Generator Operator; OR B. BPA did not receive any requests for data by a Generator Operator within this reporting period.	11/13/2015
VAR-001-4.1	R 5 N/A	Each TOP shall specify a voltage or Reactive Power schedule (which is either a range or a target value with an associated tolerance band) at either the high voltage side or low voltage side of the generator step-up transformer at the TOP's discretion. [Violation Risk Factor: Medium] [Time Horizon: Operations Planning]	Mandatory	TOP		Is this requirement, under the Regional Variance for the WECC region, not applicable to BPA, as according to the NERC standard it has been replaced, in its entirety, by VAR-001-4 EA13 through EA18?	11/13/2015
VAR-001-4.1	R 5.1 N/A	The TOP shall provide the voltage or Reactive Power schedule (which is either a range or a target value with an associated tolerance band) to the associated Generator Operator and direct the Generator Operator to comply with the schedule in automatic voltage control mode (the AVR is in service and controlling voltage).	Mandatory	TOP		Is this requirement, under the Regional Variance for the WECC region, not applicable to BPA, as according to the NERC standard it has been replaced, in its entirety, by VAR-001-4 EA13 through EA18?	11/13/2015
VAR-001-4.1	R 5.2 N/A	The TOP shall provide the Generator Operator with the notification requirements for deviations from the voltage or Reactive Power schedule (which is either a range or a target value with an associated tolerance band).	Mandatory	TOP		Is this requirement, under the Regional Variance for the WECC region, not applicable to BPA, as according to the NERC standard it has been replaced, in its entirety, by VAR-001-4 EA13 through EA18?	11/13/2015
VAR-001-4.1	R 5.3 N/A	The TOP shall provide the criteria used to develop voltage schedules or Reactive Power schedule (which is either a range or a target value with an associated tolerance band) to the Generator Operator within 30 days of receiving a request.	Mandatory	TOP		Is this requirement, under the Regional Variance for the WECC region, not applicable to BPA, as according to the NERC standard it has been replaced, in its entirety, by VAR-001-4 EA13 through EA18?	11/13/2015

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
VAR-001-4.1	R 6	After consultation with the Generator Owner regarding necessary step-up transformer tap changes and the implementation schedule, the TOP shall provide documentation to the Generator Owner specifying the required tap changes, a timeframe for making the changes, and technical justification for these changes. [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]	Mandatory	TOP		Does BPA, after consultation with the Generator Owner regarding necessary step-up transformer tap changes and the implementation schedule, provide documentation to the Generator Owner specifying the required tap changes, a timeframe for making the changes, and technical justification for these changes?	11/13/2015
VAR-002-WECC-2	R 1	Generator Operators and TOPs shall have AVR in service and in automatic voltage control mode 98% of all operating hours for synchronous generators or synchronous condensers. Generator Operators and TOPs may exclude hours for R1.1 through R1.10 to achieve the 98% requirement. [Violation Risk Factor: Medium] [Time Horizon: Operations Assessment]	Mandatory	GOP, TOP		Are this requirement and its sub-requirements Not Pertinent to BPA because BPA does not operate synchronous condensers connected to the BES?	4/1/2015
VAR-002-WECC-2	R 1.1	The synchronous generator or synchronous condenser operates for less than five percent of all hours during any calendar quarter.	Mandatory	GOP, TOP		Are this requirement and its sub-requirements Not Pertinent to BPA because BPA does not operate synchronous condensers connected to the BES?	4/1/2015
VAR-002-WECC-2	R 1.2	Performing maintenance and testing up to a maximum of seven calendar days per calendar quarter.	Mandatory	GOP, TOP		Are this requirement and its sub-requirements Not Pertinent to BPA because BPA does not operate synchronous condensers connected to the BES?	4/1/2015
VAR-002-WECC-2	R 1.3	AVR exhibits instability due to abnormal system configuration.	Mandatory	GOP, TOP		Are this requirement and its sub-requirements Not Pertinent to BPA because BPA does not operate synchronous condensers connected to the BES?	4/1/2015
VAR-002-WECC-2	R 1.4	Due to component failure, the AVR may be out of service up to 60 consecutive.	Mandatory	GOP, TOP		Are this requirement and its sub-requirements Not Pertinent to BPA because BPA does not operate synchronous condensers connected to the BES?	4/1/2015

BPA Transmission Operator Agreement Applicable NERC Requirements

Standard Id	Req ID	Requirement	Req Status	Applicability	Customer Response: From your perspective how is this being accomplished today	Resolver Question (for BPA's Compliance) Reference/background info	Enforcable Dates
VAR-002-WECC-2	R 1.5	Due to a component failure, the AVR may be out of service up to one year provided the Generator Operator or TOP submits documentation identifying the need for time to obtain replacement parts and if required to schedule an outage.	Mandatory	GOP, TOP		Are this requirement and its sub-requirements Not Pertinent to BPA because BPA does not operate synchronous condensers connected to the BES?	4/1/2015
VAR-002-WECC-2	R 1.6	Due to a component failure, the AVR may be out of service up to 24 months provided the Generator Operator or Transmission Operator submits documentation identifying the need for time for excitation system replacement (replace the AVR, limiters, and controls but not necessarily the power source and power bridge) and to schedule an outage.	Mandatory	GOP, TOP		Are this requirement and its sub-requirements Not Pertinent to BPA because BPA does not operate synchronous condensers connected to the BES?	4/1/2015
VAR-002-WECC-2	R 1.7	The synchronous generator or synchronous condenser has not achieved Commercial Operation.	Mandatory	GOP, TOP		Are this requirement and its sub-requirements Not Pertinent to BPA because BPA does not operate synchronous condensers connected to the BES?	4/1/2015
VAR-002-WECC-2	R 1.8	The TOP directs the Generator Operator to operate the synchronous generator, and the AVR is unavailable for service.	Mandatory	GOP, TOP		Are this requirement and its sub-requirements Not Pertinent to BPA because BPA does not operate synchronous condensers connected to the BES?	4/1/2015
VAR-002-WECC-2	R 1.9	The RC directs TOP to operate the synchronous condenser, and the AVR is unavailable for service.	Mandatory	GOP, TOP		Are this requirement and its sub-requirements Not Pertinent to BPA because BPA does not operate synchronous condensers connected to the BES?	4/1/2015
VAR-002-WECC-2	R1.10	If AVR exhibits instability due to operation of a Load Tap Changer (LTC) transformer in the area, the TOP may authorize the Generator Operator to operate the excitation system in modes other than automatic voltage control until the system configuration changes.	Mandatory	GOP, TOP		Are this requirement and its sub-requirements Not Pertinent to BPA because BPA does not operate synchronous condensers connected to the BES?	4/1/2015