

Project 2009-03 Emergency Operations (EOP-001-2.1b, -002-3.1, and -003-2). Consideration of Issues and Directives | October 2014

Project 2009-03 Emergency Operations				
Issue or Directive	Source	Consideration of Issue or Directive		
P 571 (S- Ref 10066 – EOP-002)	FERC Order No. 693	The EOP SDT has included transmission related items to be included in the Transmission Operator's Emergency Operating Plan(s). These items impact transmission capability and		
As we stated in the NOPR, neither EOP-002- nor any other Reliability Standard		include Requirement R1, Parts 1.2.2-1.2.5:		
ddresses the impact of inadequate		1.2.2. Cancellation or recall of Transmission and generation outages;		
ransmission during generation		1.2.4. Transmission system reconfiguration;		
emergencies. The Commission agrees with VRO that "insufficient transmission		1.2.5. Redispatch of generation request;		
apability" could be due to various causes.				
he ERO should examine whether to clarify his term in the Reliability Standards				
levelopment process."				
573 (S- Ref 10067 – EOP-003)	FERC Order No. 693	The EOP SDT removed EOP-001-2.1b, Attachment 1 and incorporated it into this standard under the applicable requirements. The EOP SDT developed individual requirements for the term of the standard stan		
The Commission agrees with FirstEnergy		Transmission Operator and the Balancing Authority to develop, maintain and implement		
hat for demand-side resources to qualify as		Operating Plan(s) to mitigate operating Emergencies. The requirements incorporate the		
nother tool for balancing authorities to use n meeting control performance and		applicable elements of Attachment 1 for each entity.		
listurbance control Reliability Standards,		R1. Each Transmission Operator shall develop, maintain, and implement a Reliabilit		
hey must meet comparable technical		Coordinator-reviewed Operating Plan(s) to mitigate operating Emergencies in it Transmission Operator Area. The Operating Plan(s) shall include the following, a		
performance requirements as generation		applicable: [Violation Risk Factor: High] [Time Horizon: Real-Time Operations,		
esource options. In response to comments		Operations Planning]		
rom Comverge and APPA, the Commission believes that curtailable loads are		1.1. Roles and responsibilities for activating the Operating Plan(s);		
adequately addressed in Requirement R6 of				

Project 2009-03 Emergency Operations			
Issue or Directive	Source	Consideration of Issue or Directive	
the Reliability Standard but that demand		1.2. Processes to prepare for and mitigate Emergencies including:	
response is not covered. Demand response covers considerably more resources than interruptible load. Accordingly, the		1.2.1. Notification to its Reliability Coordinator, to include current and projected conditions, when experiencing an operating Emergency;	
Commission directs the ERO to modify the		1.2.2. Cancellation or recall of Transmission and generation outages;	
Reliability Standard to include all technically feasible resource options in the		1.2.3. Transmission system reconfiguration;	
management of emergencies. These options		1.2.4. Redispatch of generation request;	
should include generation resources, demand response resources and other technologies that meet comparable technical performance requirements."		1.2.5. 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	
		1.2.6. Reliability impacts of extreme weather conditions.	
	R	2. Each Balancing Authority shall develop, maintain, and implement a Reliability Coordinator-reviewed Operating Plan(s) to mitigate Capacity Emergencies and Energy Emergencies within its Balancing Authority Area. The Operating Plan(s) shall include the following, as applicable: [Violation Risk Factor: High] [Time Horizon: Real-Time Operations, Operations Planning]	
		2.1. Roles and responsibilities for activating the Operating Plan(s);	
		2.2. Processes to prepare for and mitigate Emergencies including:	
		2.2.1. Notification to its Reliability Coordinator, to include current and projected conditions when experiencing a Capacity Emergency or Energy Emergency;	
		2.2.2. Requesting an Energy Emergency Alert, per Attachment 1;	

Project 2009-03 Emergency Operations			
Issue or Directive	Source	Consideration of Issue or Directive	
		2.2.3. Managing generating resources in its Balancing Authority Area to address:	
		2.2.3.1. capability and availability;	
		2.2.3.2. fuel supply and inventory concerns;	
		2.2.3.3. fuel switching capabilities; and	
		2.2.3.4. environmental constraints.	
		2.2.4. Public appeals for voluntary Load reductions;	
		2.2.5. Requests to government agencies to implement their programs to achieve necessary energy reductions;	
		2.2.6. Reduction of internal utility energy use;	
		2.2.7. Use of Interruptible Load, curtailable Load and demand response;	
		2.2.8. 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	
		2.2.9. Reliability impacts of extreme weather conditions.	
595 (S- Ref 10072 – EOP-003) "The Commission concludes that the Reliability Standard needs to be modified to ensure that adequate load shedding capabilities are provided so that system	FERC Order No. 693	The EOP SDT removed EOP-001-2.1b, Attachment 1 and incorporated it into this standard under the applicable requirements. The EOP SDT developed individual requirements for the Transmission Operator and the Balancing Authority to develop, maintain and implement Operating Plan(s) to mitigate operating Emergencies. The requirements incorporate the applicable elements of Attachment 1 for each entity.	

Project 2009-03 Emergency Operations				
Issue or Directive	Source	Consideration of Issue or Directive		
operators have an effective operating measure of last resort to contain system emergencies and prevent cascading. The Commission recognizes that the amount of load shedding capability required is dependent on system characteristics and therefore it may not be feasible to have a uniform nationwide load shedding capability. This, however, does not preclude a uniform nationwide criterion on the methodology for establishing load shedding capability that would specify the minimum amount of load shedding capability that should be provided based on system characteristics and conditions and the maximum amount of delay before load shedding can be implemented. The		 Consideration of Issue or Directive R1. Each Transmission Operator shall develop, maintain, and implement a 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: [Violation Risk Factor: High] [Time Horizon: Real-Time Operations, Operations Planning] 1.1. Roles and responsibilities for activating the Operating Plan(s); 1.2. Processes to prepare for and mitigate Emergencies including: 1.2.1. Notification to its Reliability Coordinator, to include current and projected conditions, when experiencing an operating Emergency; 1.2.2. Cancellation or recall of Transmission and generation outages; 1.2.3. Transmission system reconfiguration; 1.2.4. Redispatch of generation request; 1.2.5. Provisions for operator-controlled manual Load shedding that minimizes the overlap with automatic Load shedding and are 		
Commission directs the ERO to address the minimum load and maximum time concerns		capable of being implemented in a timeframe adequate for mitigating the Emergency; and		
of the Commission through the Reliability Standards development process. We suggest that a review of industry best practices would be useful in developing nationwide critera.		1.2.6. Reliability impacts of extreme weather conditions.		
		R2. Each Balancing Authority shall develop, maintain, and implement a Reliability Coordinator-reviewed Operating Plan(s) to mitigate Capacity Emergencies and Energy Emergencies within its Balancing Authority Area. The Operating Plan(s) shall include the following, as applicable: [Violation Risk Factor: High] [Time Horizon: Real-Time Operations, Operations Planning]		

Project 2009-03 Emergency Operations				
Issue or Directive	Source			Consideration of Issue or Directive
		2.1.	Roles a	and responsibilities for activating the Operating Plan(s);
		2.2.	Proces	ses to prepare for and mitigate Emergencies including:
			2.2.1.	Notification to its Reliability Coordinator, to include current and projected conditions when experiencing a Capacity Emergency or Energy Emergency;
			2.2.2.	Requesting an Energy Emergency Alert, per Attachment 1;
			2.2.3.	Managing generating resources in its Balancing Authority Area to address:
				2.2.3.1. capability and availability;
				2.2.3.2. fuel supply and inventory concerns;
				2.2.3.3. fuel switching capabilities; and
				2.2.3.4. environmental constraints.
			2.2.4.	Public appeals for voluntary Load reductions;
			2.2.5.	Requests to government agencies to implement their programs to achieve necessary energy reductions;
			2.2.6.	Reduction of internal utility energy use;
			2.2.7.	Use of Interruptible Load, curtailable Load and demand response;
			2.2.8.	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
			2.2.9.	Reliability impacts of extreme weather conditions.

Project 2009-03 Emergency Operations			
Issue or Directive	Source	Consideration of Issue or Directive	
P 597 (S- Ref 10073 – EOP-003) "As suggested by California PUC, periodic drills of simulated load shedding should involve all participants required to ensure successful implementation of load shedding plans. As such, the drills should extend beyond system operators to distribution operators and LSEs. The Reliability Standard should require periodic drills by entities subject to section 215, and require those entities to seek participation by other entities. The drills should test the readiness and functionality of the load shedding plans, including, at times, the actual deployment of personnel. Therefore the Commission disagrees with FirstEnergy that the requirement for periodic drills of simulated load shedding should be incorporated into the new PER-005-0 Reliability Standard that is currently being drafted to address operator training."	FERC Order No. 693	The Transmission Operator participates in Reliability Coordinator restoration drills and they will be able to shed Load with or without the Load-Serving Entity or Distribution Provider. Transmission Operators also participate in annual training required under Reliability Standard PER-005-2. NERC has launched the Risk-Based Registration (RBR) Initiative to ensure that the right entities are subject to the right set of applicable Reliability Standards, using a consistent approach to risk assessment and registration across the ERO. The goal is to develop enhanced registry criteria, including the use of thresholds and specific Reliability Standards applicability, where appropriate, to better align compliance obligations with material risk to Bulk Electric System reliability. The proposed enhancements reduce unnecessary burdens by all involved while preserving Bulk Electric System reliability and avoiding causing or exacerbating instability, uncontrolled separation, or Cascading failures.	
P 601 (S- Ref 10074 – EOP-003) "APPA Comments are in Paragraph 598: 'In addition, APPA states that NERC should consider requiring balancing authorities and	FERC Order No. 693	The EOP SDT removed EOP-001-2.1b, Attachment 1 and incorporated it into this standard under the applicable requirements. The EOP SDT developed individual requirements for the Transmission Operator and the Balancing Authority to develop, maintain and implement Operating Plan(s) to mitigate operating Emergencies. The requirements incorporate the applicable elements of Attachment 1 for each entity.	

Project 2009-03 Emergency Operations			
Issue or Directive	Source	Consideration of Issue or Directive	
transmission operators to expand coordination and planning of their automatic and manual load shedding plans to include their respective Regional Entities, reliability coordinators and generation owners'."		 Coordination and planning of automatic and manual Load shedding has been adequately addressed by requiring Transmission Operators and Balancing Authorities to have a Reliability Coordinator-reviewed Operating Plan(s) to mitigate operating Emergencies. R1. Each Transmission Operator shall develop, maintain, and implement a 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: [Violation Risk Factor: High] [Time Horizon: Real-Time Operations, Operations Planning] 1.1. Roles and responsibilities for activating the Operating Plan(s); 1.2. Processes to prepare for and mitigate Emergencies including: 1.2.1. Notification to its Reliability Coordinator, to include current and projected conditions, when experiencing an operating Emergency; 1.2.2. Cancellation or recall of Transmission and generation outages; 	
		1.2.3. Transmission system reconfiguration;	
		1.2.4. Redispatch of generation request;	
		1.2.5. 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	
		1.2.6. Reliability impacts of extreme weather conditions.	
		R2. Each Balancing Authority shall develop, maintain, and implement a Reliability Coordinator-reviewed Operating Plan(s) to mitigate Capacity Emergencies and Energy Emergencies. The Operating Plan(s) shall include the following, as	

Project 2009-03 Emergency Operations				
Issue or Directive	Source	Consideration of Issue or Directive		
		applicable: [Violation Risk Factor: High] [Time Horizon: Real-Time Operations, Operations Planning]		
		2.1. Roles and responsibilities for activating the Operating Plan(s);		
		2.2. Processes to prepare for and mitigate Emergencies including:		
		2.2.1. Notification to its Reliability Coordinator, to include current and projected conditions when experiencing a Capacity Emergency or Energy Emergency;		
		2.2.2. Requesting an Energy Emergency Alert, per Attachment 1;		
		2.2.3. Managing generating resources in its Balancing Authority Area to address:		
		2.2.3.1. capability and availability;		
		2.2.3.2. fuel supply and inventory concerns;		
		2.2.3.3. fuel switching capabilities; and		
		2.2.3.4. environmental constraints.		
		2.2.4. Public appeals for voluntary Load reductions;		
		2.2.5. Requests to government agencies to implement their programs to achieve necessary energy reductions;		
		2.2.6. Reduction of internal utility energy use;		
		2.2.7. Use of Interruptible Load, curtailable Load and demand response;		
		2.2.8. Provisions for operator-controlled manual Load shedding that minimizes the overlap with automatic Load shedding and are		

Project 2009-03 Emergency Operations			
Issue or Directive	Source	Consideration of Issue or Directive	
		capable of being implemented in a timeframe adequate for mitigating the Emergency; and	
		2.2.9. Reliability impacts of extreme weather conditions.	