

Consideration of Comments on Second Draft of Standards for Real-Time Operations (Project 2007-03)

The Real-time Operations Standard Drafting Team thanks all commenters who submitted comments on the Second Draft of Standards for Real-Time Operations (Project 2007-03). These standards were posted for a 30-day public comment period from April 7, 2009 through May 8, 2009. The stakeholders were asked to provide feedback on the standards through a special Electronic Comment Form. There were 37 sets of comments, including comments from more than 130 different people from over 45 companies representing all 10 Industry Segments as shown in the table on the following pages.

http://www.nerc.com/filez/standards/Real-time_Operations_Project_2007-03.html

Due to industry comments, a need to ensure the VSLs conform to the latest set of VSL guidelines, and continuing to respond to Order 693 directives, the following items have been changed:

- TOP-001-2: R2, R3, R4, R5 (added), R6 (added), R7, M2, M5 (added) M6 (added), R1-R8 VSLs
- TOP-002-3: R1, R2, M1, R1-R3 VSLs
- TOP-003-1, R1, R1 bullet #1, R4, R5, M4, M5, data retention for R4 & R5, R1-R5 VSLs
- TOP-004-3: R1 (moved to TOP-001-2, R5), R2 (delete)

The RTO SDT supports the following definition of Reliability Directive drafted by the Reliability Coordination SDT and capitalized the use of this term in TOP-001-2, Requirement R1 and associated measure and violation severity levels. (Comments on the definition are being solicited by the RTO SDT.)

Reliability Directive: A communication initiated by a Reliability Coordinator, Transmission Operator, or Balancing Authority where action by the recipient is necessary to address an actual or expected Emergency

Due to the number of changes, the SDT is recommending a third posting.

If you feel that your comment has been overlooked, please let us know immediately. Our goal is to give every comment serious consideration in this process! If you feel there has been an error or omission, you can contact the Vice President and Director of Standards, Gerry Adamski, at 609-452-8060 or at <u>gerry.adamski@nerc.net</u>. In addition, there is a NERC Reliability Standards Appeals Process.¹

¹ The appeals process is in the Reliability Standards Development Procedures: http://www.nerc.com/standards/newstandardsprocess.html.

Index to Questions, Comments, and Responses

- TOP-001-2, R3: Regarding the requirement to provide emergency assistance The SDT deleted the phrase "provided that the requesting entity has implemented its comparable emergency procedures" from the first iteration of the revised standard. Based on comments received from the first posting, the SDT is considering reinstating this phrase. Do you agree that this phrase should be reinstated?......10
- TOP-001-2, R4: Regarding the requirement to coordinate operations Based on comments received from the first posting, the SDT is considering deleting the GOP from this requirement. Comments were received questioning the role of the GOP in reliability analysis beyond providing the data in TOP-003-1, Requirement R4. Do you agree that the GOP should be deleted from this requirement?......15
- 3. TOP-001-2, R5: Regarding SOL exceedance notification The consensus of the industry in the first posting was that some subset of SOLs needs to be reported but there was no clear cut agreement on what subset to report to the RC. The subset of SOLs to be reported must be easily identifiable and measurable while supporting reliability. Please remember in your response that as per the NERC Glossary that IROLs are a subset of SOLs. Given that requirement, what subset of SOLs do you feel need to be reported?19

The Industry Segments are:

- 1 Transmission Owners
- 2 RTOS, ISOS
- 3 Load-serving Entities
- 4 Transmission-dependent Utilities
- 5 Electric Generators
- 6 Electricity Brokers, Aggregators, and Marketers
- 7 Large Electricity End Users
- 8 Small Electricity End Users
- 9 Federal, State, Provincial Regulatory or other Government Entities
- 10 Regional Reliability Organizations, Regional Entities

		Commenter	Organization				Ind	ustry	Segn	nent			
				1	2	3	4	5	6	7	8	9	10
1.	Group	Denise Koehn	Bonneville Power Administration	х		х		X	х				
	Additional Member		Additional Organization			Regi	on		5	Segme	nt Sele	ection	
	1. Jim Burns		Transmission Technical Operations	WECC					1				
	2. Tim Loepl	ker	Dispatch			WEC	00		1				
2.	Group	Harry Tom	Project 2007-02 Operating Personnel Comm Protocols SDT	x	х			х				Х	х
	A	dditional Member	Additional Organization	•		Regi	on		5	Segme	nt Sele	ection	
	1. Lloyd Sn	yder	GSOC			SEF	RC				1		
	2. Tom Irvir	ne	HydroOne		NPCC			1, 9					
	3. Leanne H	Harrison	PJM		RFC			2					
	4. James McGovern		ISO-NE		NPCC			2					
	5. Fred Waites		Southern Company	SERC			1						
	6. Harvie B	eavers	Colmac Clarion/Piney Creek LP	RFC			5						
	7. Alan N. A	Allgower	ERCOT	ERCOT				10					

		Commenter	Organization				Ind	lustry	Seg	jme	nt		
				1	2	3	4	5	6		7	8 9	10
	8. Mark L. I	Bradley	ITC			MR	0					1	
	9. Mike Bro	ost	JEA			FRC	C					1	
	10. William I) Ellard	CAISO			WEO	CC					2	
	11. Wayne M	/litchell	Entergy			SEF	RC					1	
	12. John Ste	phens	City Utilities of Springfield			RF	С					1	
	13. Ronald Goins		MISO			MR	0					2	
3.	Group	Frank Koza	Real Time Best Practices Standards Study Group	X	Х	X	х	X			х	х	
	4	Additional Member	Additional Organization			Regi	on			Seg	gment	Selection	ו
	1. Sam Bra	ttini	KEMA		NA -	Not A	pplical	ble			Ν	IA	
	 Charles Jenkins Frank Koza 		ONCOR			ERC	ОТ				3,	5, 1	
			PJM			RF	С					2	
	4. Francis E	Esselman	American Transm Co.			RF	С					1	
	5. Doug Re	empel	Manitoba Hydro			RF	RFC			1, 3, 5			
	6. Mike Oat	tts	Southern Company			SEF	RC			3, 5, 1			
	7. Patti Met	tro	NRECA		NA -	· Not A	pplica	ble			1,	4, 7	
	8. Mike Sch	niavone	National Grid			NPC	C				3,	5, 1	
	9. Jack Ker	r	Dominion			SEF	RC				3,	5, 1	
	10. James V	ermillion	AECI			SEF	RC				1,	3, 5	
4.	Group	Patrick Brown	PJM's NERC and Regional Coordination Department		x								
	A	dditional Member	Additional Organization			Regi	on			Seg	gment	Selection	1
	1. Albert DiC	aprio	PJM			RF					-	2	
	2. Bill Harm		PJM			RF	С					2	
	3. Mark Kura	IS	PJM			RF	С					2	
	4. Tom Mole	ski	PJM			RF	С					2	
	5. Cathrine V	Vesley	PJM			RF	С					2	

		Commenter	Organization				Ind	lustry	Segr	nent			
				1	2	3	4	5	6	7	8	9	10
	6. Susan M	cGill	PJM	RFC					2				
5.	Group	Jim Griffith	SERC OC Standards Review Group	x		х		х					
		Additional Member	Additional Organization		•	Regi	ion	•		Segme	nt Sel	ection	
	1. Phil Cre	ech	Progress Energy Carolinas			SEF	RC			1, 3, 5			
	2. Paul Tu	rner	Ga. System Operations Corp.			SEF	RC				3		
	3. Alisha A	Ankar	City of Springfield (CWLP)			SEF	RC			1,	, 3, 5, 9	9	
	4. Don Re	ichenbach	Duke Energy			SEF	RC				1, 3, 5		
	5. Jason M	larshall	Midwest ISO			SEF	RC				2		
	6. Eugene Warnecke		Ameren			SEF	RC						
	7. AI McM	eekin	SCE&G			SEF	RC				1, 3, 5		
	 Vicky Budreau Marc Butts 		Santee Cooper			SEF	RC			1,	, 3, 5, 9	Э	
			Southern Co Transmission			SEF	RC				1, 3, 5		
	10. Travis S	Sykes	TVA			SEF	RC		, 3, 5, 9	Э			
	11. Tim Hat	taway	PowerSouth			SEF	RC			1,	, 3, 5, 9	Э	
	12. Bob The	omas	IMEA			SEF	RC			3, 5, 9			
	13. Melinda	Montgomery	Entergy			SEF	RC				1, 3, 5		
	14. Jim Cas	se	Entergy			SEF	RC				1, 3, 5		
	15. Mike Cl	ements	TVA			SEF	RC			1,	, 3, 5, 9	Э	
	16. Steve F	ritz	Aces Power Marketing			SEF	RC				6		
	17. Jalal Ba	ıbik	Dominion Virginia Power			SEF	RC				6		
	18. Lee Tay	lor	Southern Co Transmission			RF	С				1, 3, 5		
	19. Mike Br	yson	PJM			SEF	RC				2		
	20. John Tr	oha	SERC Reliability Corp.			SEF	RC				10		
6.	Group	Doug Hohlbaugh	FirstEnergy Corp	х		х	х	х	х				
		Additional Member	Additional Organization			Regi	ion			Segme	nt Sel	ection	
	1. Dave Fol	k	FE			RF	С				1		
	2. John Ma	rtinez	FE			RF	С				1		

		Commenter	Organization				Inc	dustry	Segr	nent	t		
				1	2	3	4	5	6	7	8	9	10
	3. Andy Hun	ter	FE			RF	С				1		
	4. John Ree	d	FE			RF	С				1		
	5. Steve Me	gay	FE			RF	С				1		1
	6. Larry Hart	tley	FE Solutions			RF	С				5,6	5	
7.	Group	Jalal Babik	Dominion Resources Inc.	Х		Х		X	х				
	A	dditional Member	Additional Organization		•	Regi	ion	•		Segn	nent S	election	
	1. Jack Kerr		Electric Transmission			SEF	RC				1		
	2. Louis Slad	de	Electric Market Policy			RF	С				6		
	3. Mike Gart	on	Electric Market Policy			NPC	CC				5		
8.	Group	Guy Zito	Northeast Power Coordinating Council										Х
	1	Additional Member	Additional Organization			Regi	ion			Segn	nent S	election	
	1. Ralph R	ufrano	New York Power Authority			NPC	CC				5		
	2. Al Adam	son	New York State Reliability Council			NPC	CC				10		
	3. Greg Ca	mpoli	New York Independent System Operator			NPC	CC				2		
	4. Roger C	hampagne	Hydro-Quebec TransEnergie			NPC	CC				2		
	5. Kurtis Cl	hong	Independent Electricity System Operator			NPC	CC				2		
	6. Sylvain (Clermont	Hydro-Quebec TransEnergie			NPC	CC				1		
	7. Manuel (Couto	National Grid			NPC	CC				1		
	8. Chris de	Graffenried	Consolidated Edison Co. of New York, Inc.			NPC	CC				1		
	9. Brian Ev	ans-Mongeon	Utility Services			NPC	CC				6		
	10. Mike Ga	rton	Dominion Resources Services, Inc.			NPC	CC				5		
	11. Michael	Gildea	Constellation Energy			NPC	CC				6		
	12. Brian Go	oder	Ontario Power Generation Incorporated			NPC	CC				5		
	13. Kathleer	n Goodman	ISO - New England			NPC	CC				2		
	14. David Ki	guel	Hydro One Networks Inc.			NPC	CC				1		
	15. Michael	Lombardi	Northeast Utilities			NPC	CC				1		
	16. Randy M	lacDonald	New Brunswick System Operator			NPC	CC				2		

_		Commenter	Organization				In	dustr	y Seg	gmo	ent			
				1	2	3	4	5	6		7 8	8	9	10
	17. Bruce M	etruck	New York Power Authority			NPC	C				6			
	18. Robert F	Pellegrini	The United Illuminating Company			NPC	CC							
	19. Michael	Schiavone	Nationa Grid			NPC	CC				1			
	20. Michael	Sonnelitter	FPL Energy/NextEra Energy			NPC	CC				5			
	21. Peter Yo	ost	Consolidated Edison Co. of New York, Inc.			NPC	CC				3			
	22. Gerry Du	unbar	Northeast Power Coordinating Council			NPC	CC				10)		
	23. Lee Ped	owicz	Northeast Power Coordinating Council			NPC	CC				10)		
9.	Group	Jason L. Marshall	Midwest ISO Stakeholders Standards Collaborators		х									
	A	dditional Member	Additional Organization			Reg	Region		Se					
	1. Kirit Shah	I	Ameren		SERC				1					
10.	Group	Michael Brytowski	MRO NERC Standards Review Subcommittee											Х
		Additional Member	Additional Organization			Regi	ion			Se	egment S	Selec	tion	
	1. Carol Ge	erou	MP			MR	0				1, 3,	5, 6		
	2. Neal Bal	u	WPS			MR	0				3, 4,	5, 6		
	3. Terry Bil	ke	MISO			MR	0				2			
	4. Joe DeP	oorter	MGE			MR	0				3, 4,	5, 6		
	5. Ken Gol	dsmith	ALTW			MR	0				4			
	6. Jim Haig	jh	WAPA			MR	0				1,	6		
	7. Terry Ha	arbour	MEC			MR	0				1, 3,	5, 6		
	8. Jospeph	Knight	GRE			MR	0				1, 3,	5, 6		
	9. Scott Nic	ckels	RPU			MR	0				3, 4,	5, 6		
	10. Dave Ru	ıdolph	BEPC			MR	0				1, 3,	4, 6		
	11. Eric Rus	kamp	LES			MR	0				1, 3,	5, 6		
	12. Pam So	rdet	XCEL			MR	0				1, 3,	5, 6		
11.	Group	Ben Li	IRC Standards Review Committee		х									

		Commenter	Organization				Ind	ustry	Segr	nent			
				1	2	3	4	5	6	7	8	9	10
	A	dditional Member	Additional Organization	<u> </u>		Regi	on			Segme	ent Se	lection	
	1. Anita Lee		AESO			WEG	CC				2		
	2. Steve Mye	ers	ERCOT			ERC	ОТ				2		
	3. Patrick Br	own	РЈМ			RF	С				2		
	4. Lourdes E	strada-Salinero	CAISO			WEG	CC				2		
	5. Charles Y	eung	SPP			SP	Р				2		
	6. James Ca	stle	NYISO			NPC	C			2			
	7. Matt Gold		ISO-NE			NPC	-			2			
	8. Bill Phillips	S	MISO			MR	0				2		
12.	Individual	Sandra Shaffer	PacifiCorp	х		Х		Х	х				
13.	Individual	Hugh Francis	Southern Company	х		х		x	х				
14.	Individual	Mike Davis	WECC										х
15.	Individual	Frank Gaffney	FMPA and its All Requirements Project Participants, as follows: Kissimmee Utility Authority, City of Vero Beach, Lakeland Electric, Florida Municipal Power Pool	Х		х	Х		X				
16.	Individual	Scott McGough	Oglethorpe Power Corporation					х					
17.	Individual	Chris Scanlon	Exelon	х		Х		х	x				
18.	Individual	Michael J. Sonnelitter	NextEra Energy Resources, LLC					х					
19.	Individual	Harvie Beavers	Colmac Clarion					х					
20.	Individual	James H. Sorrels, Jr.	American Electric Power	х		х		х	Х				
21.	Individual	Jianmei Chai	Consumers Energy Company			Х	х	х					

		Commenter	Organization				Ind	ustry	Segr	nent			
				1	2	3	4	5	6	7	8	9	10
22.	Individual	Brent Ingebrigtson	E.ON U.S.	х		х		х	х				
23.	Individual	Darryl Curtis	Oncor Electric Delivery	х									
24.	Individual	Nied	Con Edison System Ops	Х		х							
25.	Individual	Kasia Mihalchulk	Manitoba Hydro	Х		х		х	х				
26.	Individual	Ed Davis	Entergy Services	Х		х		х	х				
27.	Individual	Greg Rowland	Duke Energy	Х		х		х	х				
28.	Individual	Kirit Shah	Ameren	Х		х		х	х				
29.	Individual	Tony Kroskey	Brazos Electric Power Cooperative, Inc.	X									
30.	Individual	Gregory Campoli	New York Independent System Operator		х								
31.	Individual	Alice Murdock	Xcel Energy	X		x		х	х				
32.	Individual	Kathleen Goodman	ISO New England Inc.		х								
33.	Individual	Armin Klusman	CenterPoint Energy	X									
34.	Individual	Catherine Koch	Puget Sound Energy	X									
35.	Individual	Dan Rochester	Independent Electricity System Operator		х								
36.	Individual	Jason Shaver	American Transmission Company	Х									
37.	Individual	Michael Ayotte	ITC Transmission	Х									

1. TOP-001-2, R3: Regarding the requirement to provide emergency assistance - The SDT deleted the phrase "provided that the requesting entity has implemented its comparable emergency procedures" from the first iteration of the revised standard. Based on comments received from the first posting, the SDT is considering reinstating this phrase. Do you agree that this phrase should be reinstated?

Summary Consideration:

The vast majority of respondents are suggesting that the phrase be reinstated into the language of the standard. Therefore, even though the SDT does not find any technical merit in restoring the phrase, the phrase has been placed back in the requirement.

Due to industry comments, the SDT has modified the following requirement:

TOP-001-2, R3: Each Transmission Operator shall render emergency assistance to other Transmission Operators, as requested and available, provided that the requesting entity has implemented its comparable emergency procedures unless such actions would violate safety, equipment, regulatory, or statutory requirements.

en a compliance audit is conducted, the compliance auditor will not be evaluating a third party TOP to determine if implemented all of their comparable procedures prior to requesting emergency assistance. They will simply review a TOP being audited responded to the request for emergency assistance. If they did not, they are not necessarily in ation of the requirement because the requirement does recognize legal restrictions for not responding. Thus, if a l party TOP requested the audited TOP to shed load but had not done so themselves, the audited TOP may have ropriately and compliantly refused because their state laws and regulations prevent them from shedding load for hbors unless they are doing the same.
Standard states that the TOP render emergency assistance as requested and available. There are other standards P-001, EOP-005, EOP-008) that require an entity to implement its emergency procedures. If an entity does not ement emergency procedures when required it would be a violation. Adding a sentence here that requires the lesting entity to implement its comparable emergency procedures would be redundant to the other Standards.
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Organization	Yes or No	Question 1 Comment
	ng entity has in	sion Operator shall render emergency assistance to other Transmission Operators, as requested and available, provided nplemented its comparable emergency procedures unless such actions would violate safety, equipment, regulatory, or
WECC	No	Leave phrase deleted and current red line indicates that this is only TO to TO assistance, we believe this is too restrictive and reinstate BA's and GO's.
reinstated into the language	of the standard	ent and understands the issues being presented but the vast majority of respondents are suggesting that the phrase be and the SDT has done so. The Balancing Authority and Generator Operator must respond to reliability directives as per ance on a Balancing Authority –Transmission Operator or Generation Operator-Transmission Operator level is covered.
	ng entity has in	ssion Operator shall render emergency assistance to other Transmission Operators, as requested and available, provided nplemented its comparable emergency procedures unless such actions would violate safety, equipment, regulatory, or
Entergy Services	No	There could be situations in which the TOP requesting support cannot implement comparable procedures. For instance, if reconfiguration from a neighboring system would resolve the situation, but reconfiguration on the requestor's system would not.
		nparable procedures to be identical operating actions. The SDT discussed the comment and understands the issues pondents are suggesting that the phrase be reinstated into the language of the standard and the SDT has done so.
	ng entity has in	ssion Operator shall render emergency assistance to other Transmission Operators, as requested and available, provided nplemented its comparable emergency procedures unless such actions would violate safety, equipment, regulatory, or
Independent Electricity System Operator	Yes	This phrase pre-supposes that the assisting TOP will need to implement emergency procedures in order to assist the requesting TOP. This may not always be the case if the assisting TOP is willing and able to provide assistance without any detrimental impact to its own system. If such an arrangement were to be permitted, the details would be covered in Operating Agreements between the two entities. The SDT may therefore wish to consider catering for this and other possibilities by appending the clause subject to the provisions of operating agreements where established?
PJM's NERC and Regional Coordination Department	Yes	PJM supports the intent and the concept of comparability as intended by this requirement. However, PJM would note that TOP Emergency Procedures are not identical and are designed around the reliablity needs and capabilities of the individual TOP. When dealing with compliance, the interpretation of what is and what is not comparable could have unintended consequences.

Organization	Yes or No	Question 1 Comment
SERC OC Standards Review Group	Yes	Also, it is not clear in the context of TOP-001 what kinds of assistance an operator of transmission should give to another Transmission Operator (for example, refer to EOP-001, R1 for clarification)
FirstEnergy Corp	Yes	We support reinstating the proposed text and it should be clarified, provided that it can be shown that the action requested to assist the other party will mitigate an adverse reliability problem. FE suggests that the text should indicate provided that the requesting entity has implemented its comparable emergency procedures capable of lessening or mitigating the impact of the emergency and that the assistance requested will help to alleviate an adverse reliability problem.
Dominion Resources Inc.	Yes	As currently written an entity could be found non-compliant for not providing emergency assistance to a requesting entity that is not willing to help itself. That punishes the wrong party.
Northeast Power Coordinating Council	Yes	It is expected that further details of emergency assistance to be provided would be covered in Operating Agreements.
Southern Compnay	Yes	Yes, the phrase should be reinstated. Also, these actions should be coordinated by the Reliability Coordinator(s). Thus, we believe the verbiage should ultimately be: provided that the requesting entity has implemented its comparable emergency procedures as coordinated by the Reliability Coordinator(s).
FMPA and its All Requirements Project Participants, as follows: Kissimmee Utility Authority, City of Vero Beach, Lakeland Electric, Florida Municipal Power Pool	Yes	This is a tough one to answer, there are conceivably two types of timelines for emergencies, e.g., an emergency where response is required within minutes vs. response during a longer period of time. If a response is needed in minutes, such as post-contingency with a facility within a 10 minute emergency rating, there may be no time for a sequential step- by-step process where deleting the phrase is appropriate and entities will need to trust that the TOP is making the correct decisions. If there is time, such as a pre-contingency forecast that an element may exceed a rating, but the contingency has not occurred, then a step-by-step sequential process where the TOP in an emergency state takes action first is more appropriate. How about something like: provided that, time permitting, the requesting entity has implemented its comparable emergency procedures. Of course this introduces the difficult to measure time permitting, but maybe this could be clarified as pre-contingency vs. post-contingency
American Electric Power	Yes	AEP would suggest that the phrase be reinstated with a change of the word implemented to taken into consideration. It is important that entities not solely rely on emergency assistance when alternatives may be available. The timing itself may necessitate alternative approaches.
Consumers Energy Company	Yes	An Entity can not be required to take actions for another if the requesting entity has not taken all steps available to them to correct the situation.

Organization	Yes or No	Question 1 Comment
Con Edison System Ops	Yes	I justify this by saying that this phrase should already included in an operating agreement between the TO'sbut, having this wording in the standard as well will serve to ensure that TO's have their documents and agreements up to date.
Oncor Electric Delivery	Yes	This phrase should be reinstated.
Manitoba Hydro	Yes	
Duke Energy	Yes	
Ameren	Yes	
Brazos Electric Power Cooperative, Inc.	Yes	
New York Independent System Operator	Yes	
ISO New England Inc.	Yes	
Puget Sound Energy	Yes	
Bonneville Power Administration	Yes	
MRO NERC Standards Review Subcommittee	Yes	
IRC Standards Review Committee	Yes	
PacifiCorp	Yes	
NextEra Energy	Yes	

Organization	Organization Yes or No Question 1 Comment								
Resources, LLC									
Colmac Clarion	Colmac Clarion Yes								
E.ON U.S.	Yes								
Response: Thank you for yo SDT has done so.	Response: Thank you for your response. The vast majority of respondents are suggesting that the phrase be reinstated into the language of the standard and the SDT has done so.								
TOP-001-2, R3 : Each Transmission Operator shall render emergency assistance to other Transmission Operators, as requested and available, provided that the requesting entity has implemented its comparable emergency procedures unless such actions would violate safety, equipment, regulatory, or statutory requirements.									

2. TOP-001-2, R4: Regarding the requirement to coordinate operations – Based on comments received from the first posting, the SDT is considering deleting the GOP from this requirement. Comments were received questioning the role of the GOP in reliability analysis beyond providing the data in TOP-003-1, Requirement R4. Do you agree that the GOP should be deleted from this requirement?

Summary Consideration: There was no consensus on the removal of the Generator Operator; therefore, the SDT agrees to retain the Generator Operator in TOP-001-2, R4.

Organization	Yes or No	Question 2 Comment
FirstEnergy Corp	No	TOP-001-2 R4 requires the actions of the GOP be coordinated with impacted entities while TOP-003-1 R4 requires the GOP to provide data to the TOP and BAs. These are two completely different aspects of the BES operation and both need to be addressed by a standard.
Northeast Power Coordinating Council	No	We believe there are occasions when a GOP may need to take actions that would require coordination with or notification of the RC/TOP/BA or others who could be impacted. At this time it is not clear what other standards could obligate the GOP to do so if the GOP were removed from this requirement.
IRC Standards Review Committee	No	We believe there are occasions when a GOP may need to take actions that would require notification to the RC/TOP/BA or others who could be impacted. This is not following directives; it is for the GOP to make known to others of actions it will take that can have a reliability impact or affect others. If a predetermined list of actions to be communicated is established, then this requirement is not needed. At this time it is not clear what other standards provide this list which collectively obligates the GOP to notify parties that would be impacted. If the requirements for a GOP to communicate and coordinating actions such as removing AVR from service, derating real and reactive capabilities, removing units, protective relays, stabilizers, exciters, etc. out of service, are covered by other standards, then we do not disagree with the proposed deletion.
Southern Company	No	The GOP needs to communicate problems that could impact normal operation.
E.ON U.S.	No	The requirement should state that the Generator Operators should be required to coordinate with their respective TOP not simply provide data.
Entergy Services	No	The status of large generators can have a reliability impact on other reliability entities, and they should be included in this standard.
Duke Energy	No	We believe it's critical for the GOP to coordinate operations with the TOP.

Organization	Yes or No	Question 2 Comment
Ameren	No	GOPs need to coordinate their activities. For instance, a small tube leak might not mandate an immediate outage for a plant electrically near a known SOL/IROL area. To the extent the GOP and TOP coordinate when the outage to repair this condition will occur, BES reliability benefits.
Brazos Electric Power Cooperative, Inc.	No	If a GOP is to comply with directives from a TOP in R1, then a requirement "to coordinate operations" is needed in R4.
New York Independent System Operator	No	We believe there are occasions when a GOP may need to take actions that would require coordination with or notification of the RC/TOP/BA or others who could be impacted. At this time it is not clear what other standards could obligate the GOP to do so if the GOP were removed from this requirement.
Con Edison System Ops	No	The GOP wording should remain.
Independent Electricity System Operator	No	TOP-001-2 R4, as written, stipulates the need for coordination of operations, i.e., coordination with or notification of the RCs/TOPs/BAs or others who could be impacted by the GOPs actions and operational plans. This is more than merely providing data, which is covered by TOP-003-1 R4. On the latter requirement (TOP-003-1, R4), we are unable to find an explanation for the addition of .including, but not limited to: and the bulleted items that follow. It suggests that only the listed information needs to be provided. Requirement R1.1 would serve the intended purpose by simply saying: A list of required data to be exchanged. We suggest deleting the added wording and bullets.
American Transmission Company	No	This requirement does not get into the specifics of what is required of the GOP other than to state that it shall coordinate its operations, which is an important function. TOP-003-1 requires specificity regarding data exchange which is a different and more specific scope than TOP-001-2 R4. The two requirements are very different in scope and are, therefore, not redundant.
Response: There was no	consensus on	the removal of the Generator Operator; therefore, the SDT agrees to retain the Generator Operator in TOP-001-2, R4.
Midwest ISO Stakeholders Standards Collaborators	No	What if the unit is a reliability must run unit? With this requirement in place, the GOP may be more proactive in keeping the unit running (i.e. willing to take a greater risk damaging the unit if there is already a problem with the unit). Without the requirement, the GOP may shut the unit down at the first sign of any problem.
ITC Transmission	No	Generators have an important role in supporting BES reliability and that should be recognized. Taking a unit offline, particularly a must-run unit, should be coordinated with the TOP.
Response: The SDT has	agreed to retai	n the Generator Operator. The SDT believes that the specific issue mentioned in your comments related to a reliability-

Organization	Yes or No	Question 2 Comment
must-run generator's failure	e to coordinate	operations is a contractual issue rather than a reliability issue.
SERC OC Standards Review Group	No	
WECC	No	
Consumers Energy Company	No	
Response: Thank you for	your response.	
PJM's NERC and Regional Coordination Department	Yes	The data obligations for GOPs to coordinate with its TOPs is covered in TOP-001-2 R1. The operational obligations for GOPs to coordinate with TOPs is covered in IRO-005. IRO-005-3 R1 places a requirement on the RC to have access to operating data (which specifically includes planned generation outages R 1.9). Thus the RC already has the responsibility to get the data in question. Given that the RC has the authority to request and obtain that data, one could argue that there is no need to also mandate that the GOP coordinate the same data, since that obligation already lies with the RC - see R4).
Dominion Resources Inc.	Yes	We support the change. FERC Codes/Standards of Conduct prohibit transfer of non-public transmission information to "marketing entities". Most staffs on the "transmission side" of the industry (TO, TOP, TP, RC) are reluctant to share any non-public information with those on the "generation side" (GO, GOP) because they are unsure whether or not those staffs are deemed "marketing entities".
FMPA and its All Requirements Project Participants, as follows: Kissimmee Utility Authority, City of Vero Beach, Lakeland Electric, Florida Municipal Power Pool	Yes	Yes, it is appropriate to delete GOP from this requirement. However, consider adding a bullet under TOP-003-1 R1.1 that includes planned and unplanned generator capacity changes (which is then referred to in R4), similar to the current TOP-002-2, R14.1.
Colmac Clarion	Yes	Particularly since R2 contains no requirement for communications concerning notification of any problems or communication with the GOP. Likely the first time GOP will be aware of condition is at failure of RC/TO efforts to resolve same.

Consideration of Comments on Second Draft of TOP Standards - Project 2007-03

Organization	Yes or No	Question 2 Comment
American Electric Power	Yes	AEP appreciates the removal of redundant requirements, where possible to do so. We do not see the need for the GOP to be involved.
Oncor Electric Delivery	Yes	GOP should be deleted from this requirement.
ISO New England Inc.	Yes	We believe this is covered by various other requirements in various other standards and need not be maintained here.
Oglethorpe Power Corporation	Yes	
Exelon	Yes	
NextEra Energy Resources, LLC	Yes	
Manitoba Hydro	Yes	
Xcel Energy	Yes	
Puget Sound Energy	Yes	
PacifiCorp	Yes	
Bonneville Power Administration	Yes	
MRO NERC Standards Review Subcommittee	Yes	
Response: Thank you for y	your response.	The SDT agreed to retain the Generator Operator as described in the summary response.

3. TOP-001-2, R5: Regarding SOL exceedance notification – The consensus of the industry in the first posting was that some subset of SOLs needs to be reported but there was no clear cut agreement on what subset to report to the RC. The subset of SOLs to be reported must be easily identifiable and measurable while supporting reliability. Please remember in your response that as per the NERC Glossary that IROLs are a subset of SOLs. Given that requirement, what subset of SOLs do you feel need to be reported?

Summary Consideration: The majority of responses indicate that some subset of SOL violations should be reported but that not all SOL violations should be reported. Given the majority position stated by industry, the SDT has added TOP-001-1, Requirement R6 and modified TOP-001-1 Requirement R7 to require a subset of SOLs to be reported to the RC.

TOP-001-2, R6. Each Transmission Operator shall inform its Reliability Coordinator of all SOLs which, while not IROLs, support its local area reliability.

TOP-001-2, R7. Each Transmission Operator shall inform its Reliability Coordinator of actions being taken to return the system to within limits when an IROL, or SOLs as identified in Requirement R6, has been exceeded.

Organization	Yes or No	Question 3 Comment
Northeast Power Coordinating Council	No	System Operating Limits are meant to ensure operation within acceptable reliability criteria. Understanding that there is a subset of more critical SOL's defined by IROL, we suggest that the TOP should inform the RC of all SOLs and the actions being taken to address the exceedances which can be accomplished via SCADA or other means of action and communication when necessary.
ISO New England Inc.	No	System Operating Limits are meant to ensure operation within acceptable reliability criteria. Understanding that there is a subset of more critical SOL's defined by IROL, we suggest that the TOP should inform the RC of all SOLs and the actions being taken to address the exceedances, either through SCADA or other means. This should ensure keeping an eye on SOLs so that cascading into an IROL will not occur.

Response: The majority of responses indicate that some subset of SOL violations should be reported but that not all SOL violations should be reported. Given the majority position stated by industry, the SDT has added TOP-001-1, Requirement R6 and modified TOP-001-1 Requirement R7 to require a subset of SOLs to be reported to the RC.

TOP-001-2, R6. Each Transmission Operator shall inform its Reliability Coordinator of all SOLs which, while not IROLs, support its local area reliability.

TOP-001-2, R7. Each Transmission Operator shall inform its Reliability Coordinator of actions being taken to return the system to within limits when an IROL, or SOLs as identified in Requirement R6, has been exceeded.

There is nothing in the standard that precludes you from reporting all SOL exceedances to the Reliability Coordinator and SCADA may be used to accomplish this task but the SDT does not feel that it is either warranted to spell out a specific method or to report all SOLs.

Organization	Yes or No	Question 3 Comment
MRO NERC Standards Review Subcommittee	No	IROLs are a sufficient subset to report.
Manitoba Hydro	No	IROL's only
IRC Standards Review Committee	No	(Please note that CAISO abstained from the following comments) System Operating Limits are meant to ensure operation within acceptable reliability criteria. We understand that IROL is one subset of the SOL's but there is another subset of SOLs that either have special relevance to the TOP, or though not determined to be IROLs at the onset, would have an adverse impact on interconnected system reliability if their exceedances are not mitigated or are simply ignored. We believe the TOPs are in the best position to determine this subset, subject to the concurrence of its Reliability Coordinators.
PacifiCorp	No	PacifiCorp has no specific subset of SOLs to suggest, however, they must be clear and easily identifiable and measurable. Suggested subsets should be included in the next comment phase for this SAR.
WECC	No	All SOL's should be reported to the RC
E.ON U.S.	No	All SOL exceedances on the BES should be reported to the RC and corrective actions should be coordinated with the RC.
New York Independent System Operator	No	System Operating Limits are meant to ensure operation within acceptable reliability criteria. Understanding that there is a subset of more critical SOL's defined by IROL, we suggest that the TOP should inform the RC of all SOLs and the actions being taken to address the exceedances.
Bonneville Power Administration		No preference, we report identified WECC rated paths.
NextEra Energy Resources, LLC		No comment.
PJM's NERC and Regional Coordination Department		PJM agrees that reporting should be based upon and restricted to reliability issues. Given the broad scope of the term SOL as defined in the NERC Glossary, PJM agrees that the requirement should be limited to a subset of the SOLsPJM proposes:
		1. The TOP requirement on limit reporting parallel the RC requirement on IROLs
		2. The TOP report violations (not exceedences) of any limit predefined by the TOP to be an essential limit (i.e. for a defined local condition that is deemed by the TOP to be of special concern and is not covered by any

Organization	Yes or No	Question 3 Comment
		predefined IROL). This approach provides a TOP the flexibility, when appropriate, to go beyond the definition of BES and to use reliability considerations rather than arbitary formulae to drive its operational reporting.
Midwest ISO Stakeholders Standards Collaborators		All SOL exceedances should be reported to the Reliability Coordinator. The Reliability Coordinator has the ultimate reliability authority. If the RC is not made aware of an SOL exceedance, how can the RC evaluate if the exceedance is actually approaching an IROL? Further, multiple SOL exceedances can be a sign of a greater reliability problem that the RC needs to rectify.
Southern Company		The subset will be pre-contingency IROL exceedences, post-contingency IROL exceedences, and real-time facilities experiencing SOL exceedences.
Con Edison System Ops		Let me start out by saying that ConEd reports all SOL's that occur on its system to the NYISO, our RC/BA/TOP.Only those SOL's should be reported to a higher authority (NPCC and above) that result from the TO operating its system in a state which is not allowed. That is, real time SOL's that arise from the TO operating its system on a post-contingency basis due to an exception granted by its RC should not be reported.
Entergy Services		Instances where an IROL is exceeded should be required to be reported to the RC. It should be left to the RC and TOP to agree to other SOLs that are important enough to be required to be reported to the RC.
ITC Transmission		At a minimum, the Transmission Operator should report any SOL that has exceeded or is expected to exceed 30 minutes.
SERC OC Standards Review Group	Yes	The subset of SOLs, other than IROLs (which must be reported), should be agreed upon between each Reliability Coordinator and the TOPs within the RCs reliability area.
FirstEnergy Corp	Yes	The question as written does not lend itself to a yes/no answer, the selection of yes was made to indicate that we agree some subset of SOL, when exceeded, warrants the a TOP notification to the RC. FE believes that the appropriate subset are those SOLs that are associated with a previously defined Interconnection Reliability Operating Limit (IROL) as determined via the FAC-014 reliability standard.
Dominion Resources Inc.	Yes	In addition to IROLs, the subset of SOLs that need to be reported should include any other SOL exceedances that the RC requests notification of and, in the Eastern Interconnection, any other SOL exceedances associated with permanent, reliability flowgates as defined in the NERC Book of Flowgates.
FMPA and its All Requirements Project Participants, as follows:	Yes	We assume "Yes" means we agree that a subset of SOLs should be reported. First, any voltage stability and transient stability limited SOLs should be reported. Second, for thermally limited SOLs, an equipment voltage

Organization	Yes or No	Question 3 Comment
Kissimmee Utility Authority, City of Vero Beach, Lakeland Electric, Florida Municipal Power Pool		class threshold for the facility with the thermal limit is probably the easiest to implement, e.g., > 200 kV, and seems consistent with other standards with this threshold (e.g., PRC 023, FAC-003). We are a bit confused with handling of IROLs, IRO-009-1 seems to make the RC responsible for managing IROLs, and therefore, no reporting of IROLs seems to be needed in TOP-001-2; hence, should SOLs that are IROLs be reported?Note that there seems to be a conflict between this requirement and the requirements of IRO-009-1, e.g., both the TOP and the RC are being held accountable to managing IROLs. This arrangement seems fraught with potential for confusion. We believe only one entity ought to be responsible for managing IROLs, and that entity should probably be the RC. This comment applies to R6 of TOP 001 2, and this comment also applies to the conflict between TOP-004-3 R1 and IRO 009-1 R4, which assign the responsibility of operating within IROL limits to both the RC and TOP. Who has primary responsibility? Who takes leadership in a situation? Is RC primary with TOP back-up?
American Electric Power	Yes	While it is expected that the Transmission Operators work in conjunction with the Reliability Coordinators to mitigate most SOL violations, a NERC requirement to report all SOL violations seems impractical. The IROLs provide a clear and logical subset of SOLs that should be reported to the RC.
Oncor Electric Delivery	Yes	Comments: Report all SOLs that require firm load to be dropped to return transmission elements within limits.
Duke Energy	Yes	Given that geography varies, system interdependencies and ratings philosophy, TOP/RC should agree on what to report.
Brazos Electric Power Cooperative, Inc.	Yes	The IROL subset needs to be reported.
Puget Sound Energy	Yes	Interconnections or major paths as specified by the region only
Response: The majority of response	ses indicate tha	t some subset of SOL violations should be reported but that not all SOL violations should be reported. Given the

Response: The majority of responses indicate that some subset of SOL violations should be reported but that not all SOL violations should be reported. Given the majority position stated by industry, the SDT has added TOP-001-1, Requirement R6 and modified TOP-001-1 Requirement R7 to require a subset of SOLs to be reported to the RC.

TOP-001-2, R6. Each Transmission Operator shall inform its Reliability Coordinator of all SOLs which, while not IROLs, support its local area reliability.

TOP-001-2, R7. Each Transmission Operator shall inform its Reliability Coordinator of actions being taken to return the system to within limits when an IROL, or SOLs as identified in Requirement R6, has been exceeded.

Independent Electricity System Operator	No	System Operating Limits are meant to ensure operation within acceptable reliability criteria. Understanding that there is a subset of more critical SOL's defined as IROLs, we suggest that the TOP should inform the RC of all
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Organization	Yes or No	Question 3 Comment
		SOLs and the actions being taken to address the exceedances.Further, this question runs counter with the SDT's proposal/decision to remove the requirement for the TOP to operate within SOLs from TOP-004-2, R1, to which we expressed a strong disagreement when commenting on the last posting. If there is no requirement for the TOP to operate within SOLs, then what purpose would it serve for the TOP to report exceeding SOLs? Similarly, what purpose would TOP-002, R1 serve? We suggest the SDT to first establish a principle regarding the need to operate within SOLs, then consider the implication of removing such a requirement from TOP-004-2, R1, when assessing other related requirements such as reporting exceedance (TOP-001, R5), performing day ahead assessment (TOP-002, R1), and developing methodology to calculate SOLs (FAC-014), etc. Finally, if the industry wishes to reduce the potential number of reports, such as those instances in which the SOLs are temporarily exceeded (popping in and out), a time and/or a percentage of SOL threshold may be introduced to achieve this.

Response: The majority of responses indicate that some subset of SOL violations should be reported but that not all SOL violations should be reported. Given the majority position stated by industry, the SDT has added TOP-001-1, Requirement R6 and modified TOP-001-1 Requirement R7 to require a subset of SOLs to be reported to the RC.

TOP-001-2, R6. Each Transmission Operator shall inform its Reliability Coordinator of all SOLs which, while not IROLs, support its local area reliability.

TOP-001-2, R7. Each Transmission Operator shall inform its Reliability Coordinator of actions being taken to return the system to within limits when an IROL, or SOLs as identified in Requirement R6, has been exceeded.

The SDT does not plan to reintroduce a requirement to operate within all SOLs. The SDT believes that the true reliability requirement is to operate within IROLs and that non-IROL SOLs are a local operating issue. Further, no other commenters have expressed this concern.

Colmac Clarion	Yes	Assume this is System Operating Limit and Interconnect Reliability Operating Limit (need to cite for first time acronym use as was done with 'BES' in purpose statement). Unsure of exact setpoint of reporting, but would likely be at anytime load approaches or exceeds planned or immediately available generation; perhaps within 2-5% greater then parity.
		576 greater men panty.
	Colmac Clarion	Colmac Clarion Yes

Response: The majority of responses indicate that some subset of SOL violations should be reported but that not all SOL violations should be reported. Given the majority position stated by industry, the SDT has modified Requirement R7 to require a subset of SOLs to be reported to the RC. To satisfy the concerns expressed by the minority, the SDT will make that subset of SOLs include the any non-IROL SOLs that the RC identifies as required to be reported to it. The requirement will further specify that this communication may be accomplished through SCADA to reduce communication burdens.

TOP-001-2, R6. Each Transmission Operator shall inform its Reliability Coordinator of all SOLs which, while not IROLs, support its local area reliability.

TOP-001-2, R7. Each Transmission Operator shall inform its Reliability Coordinator of actions being taken to return the system to within limits when an IROL, or SOLs as identified in Requirement R6, has been exceeded.

Organization	Yes or No	Question 3 Comment
The drafting team added the full terr	m, "System Ope	erating Limits" as suggested.
Ameren	Yes	
Response: Thank you for your response.		

4. TOP-004-3, R2: Regarding Agreements on switching – Based on comments received from the first posting, the SDT is considering deleting this requirement. TOP-001-3, Requirement R4 already requires coordination of operations. Given that requirement, is TOP-004-3, Requirement R2 still necessary? Do you agree that TOP-004-3, Requirement R2 can be deleted?

Summary Consideration: The requirements of Reliability Standards should specify "What" is to be done to ensure reliability. The SDT feels that operating agreements may be one example of "How" Reliability Entities work to coordinate operations, but does not feel Reliability Standards should restrict the industry participants with regard to the various methods that may be used to ensure coordination is effected. The majority of respondents agree with this position and that the requirement should be deleted. In the next posting, TOP-004-3, Requirement R2 will be deleted.

In addition, since there would only be one requirement left in TOP-004-3, Requirement R1 has been moved to TOP-001-2, Requirement R5.

Organization	Yes or No	Question 4 Comment			
Northeast Power Coordinating Council	No	Operating Agreements cover activities other than switching. We believe the requirement should be retained but any duplication eliminated.			
done to ensure reliability. The SDT	Response: The SDT agrees that agreements may cover activities other than switching. The requirements of Reliability Standards should specify "What" is to done to ensure reliability. The SDT feels that operating agreements may be one example of "How" Reliability Entities work to coordinate operations, but does reliability Standards should restrict the industry participants with regard to the various methods that may be used to ensure coordination is effected.				
IRC Standards Review Committee	No	(Note that CAISO abstained from the following comments)No, this requirement should not be deleted. Agreements among TOPs are needed to ensure proper coordination of operational plans and actions. However, we do not agree that "switching of synchronous tie lines" should be specified in the requirement, nor should it be the only action specified in a TOP agreement as there are other items such as coordinating reactive power and voltage support, planned and forced outages, emergency operation, restoration, re-synchronization, etc. that need to be included in the agreement. We suggest this requirement be revised to: "Each Transmission Operator shall have Agreements with directly interconnected Transmission Operators that specifies operation coordination among them."			
Response: The SDT believes you have hit upon precisely the concern it has. The proposed TOP-001-2, Requirement R4 requires coordination of operations with other Reliability Entities when operations are known or expected to have a reliability impact upon other Reliability Entities. The SDT recognizes that having an agreement in place specifying switching of synchronous BES tie lines, per the content of TOP-004-3, Requirement R2 is a subject that rightfully should be included with the coordination that is required by TOP-001-2, Requirement R4. Conversely, the full coordination of operations cannot be included within the more narrowly defined scope of coverage of TOP-004-3, Requirement R2. Further the SDT recognizes that the scope and number of individual agreements, which may be needed to ensure that all operations are fully coordinated for all operations known or expected to have a reliability impact upon other Reliability Entities is highly likely to vary greatly from region to region or organizational arrangement to organizational arrangement. Thus, the SDT does not feel it is appropriate, nor even feasible, to try to list in the Reliability Standards all the individual types of agreements which may be required. "What" is needed is a requirement that all Reliability Entities properly					

Organization	Yes or No	Question 4 Comment					
and adequately coordinate operatio place.	ns with other re	liability entities. Having agreements of various types may be one example of "How" that coordination is put into					
WECC	No	We believe there is a need for clear agreements					
Ameren	No	Agreements (formal or informal) are necessary to describe the conditions under which the coordinated switching in TOP-001 takes place. It will be impossible for Transmission Planners to properly analyze the conditions that can be expected if there are no "rules" for operation.					
Brazos Electric Power Cooperative, Inc.	No	Either leave TOP-004-3, R2 as is or move a requirement for an Agreement into TOP-001-3, R4.					
	hat" is required	nents may be appropriate, depending upon the relevant regional requirements and organizational arrangements. is coordination of operations. The SDT further believes that agreements may be an example of "How" he only way.					
New York Independent System Operator	No	No, this requirement should not be deleted. Agreements among TOPs are needed to ensure proper coordination of operational plans and actions. However, we do not agree that switching of synchronous tie lines should be specified in the requirement, nor should it be the only action specified in a TOP agreement as there are other items such as coordinating reactive power and voltage support, planned and forced outages, emergency operation, restoration, re-synchronization, etc. that need to be included in the agreement. We suggest this requirement be revised to: Each Transmission Operator shall have Agreements with directly interconnected Transmission Operators that specifies operation among them.					
appropriate, depending upon the re of operations. The SDT further beli	levant regional eves that agree	ng should not be the only action specified for agreement. The SDT cannot disagree that agreements may be requirements and organizational arrangements. However, the SDT believes that "What" is required is coordination ements may be an example of "How" coordination is accomplished, but not necessarily the only way. The SDT e ways of "How" a requirement may be met.					
Independent Electricity System Operator	No	We agree that specificity language such as specify switching of synchronous BES tie lines does not need to be included in R2. However, Operating Agreements cover activities other than switching, such as emergency assistance, switching coordination and communication, voltage/VAR support, system restoration, synchronization, etc. We suggest keeping R2, revising it to eliminate any duplication with other requirements and defining the minimum elements that should be included in the agreement.					
Response: The SDT agrees with y	ou that switchir	ng should not be the only action specified for agreement. The SDT cannot disagree that agreements may be					

Organization	Yes or No	Question 4 Comment				
of operations. The SDT further beli does not believe it is possible to list	eves that agree all the possible	requirements and organizational arrangements. However, the SDT believes that "What" is required is coordination ements may be an example of "How" coordination is accomplished, but not necessarily the only way. The SDT e ways of "How" a requirement may be met. The SDT does not believe that an agreement necessarily equates to onal arrangements and relationships, agreements may be an appropriate part of "How" coordination is effected.				
American Transmission Company	No	Again, TOP-001-3 requires general coordination vs. TOP-004-3 has a very specific requirement regarding agreements that specify switching of synchronous BES tie lines. The two requirements are different in scope and are, therefore, not redundant.				
Response: The SDT agrees that a be part of "How" coordination is effe		nd coordination differ in scope. Whereas coordination is "What" is required to ensure reliability, an agreement may				
SERC OC Standards Review Group	Yes	If the SDT agrees with deleting R2, we suggest that R1 should be included in TOP-002 and TOP-004-3 retired.				
FirstEnergy Corp	Yes	Yes, we agree with the recommendation to delete TOP-004-4 R2. Since this change would leave only one requirement within the TOP-004-4 standard, we urge the team to consider incorporating the requirement into another standard. One suggestion is consider adding the requirement to standard IRO-005-3 titled "Reliability Coordination - Current Day Operations". This could be added as a new requirement of IRO-005-3 or possibly a sub-requirement of requirement R11 of the IRO-005-3 standard. Alternatively, the requirement could be placed into the TOP-001 standard.				
Response: The SDT agrees and h	as moved TOP	P-004-3, R1 to TOP-001-2, R5.				
FMPA and its All Requirements Project Participants, as follows: Kissimmee Utility Authority, City of Vero Beach, Lakeland Electric, Florida Municipal Power Pool	Yes	If the requirement is deleted, you might want to consider changing the time frame to include the Planning Horizon to clarify that operating procedures / agreements between utilities are required in the long term (e.g., interconnection agreements, etc.), as well as to align with FAC-002 and the TPL standards				
reliability impact on other reliability	entities", the SE	tie lines is an operations activity that may be included in the higher level "operations known or expected to have a OT believes that the proposed Time Horizons proposed are appropriate. The Planning Horizon is applicable to prefore switching activities are not expected to have a reliability impact upon other entities in that Time Horizon. No				
Exelon	Yes	Is there a typo in the question? TOP-001 does not have a rev 3. Assuming the intent is to refer to TOP-001-2,				

Organization	Yes or No	Question 4 Comment		
		R4 we agree.		
American Electric Power	Yes	Please note the typographical error in question 4. TOP-001-3 in question 4 should read TPO-001-2.		
Response: You are correct – the r	eference shoul	d have been TOP-001-2.		
Dominion Resources Inc.	Yes	It is not clear what an agreement between TOPs to "specify switching" of tie lines is supposed to be. If it is supposed to be an interconnection agreement, those are usually between Transmission Owners. Requirement R2 can be deleted.		
Xcel Energy	Yes	We agree R2 is not necessary and should be deleted. Additionally, the use of the term "Agreements" is concerning, especially when the additional language requires one to "specify switching".		
Midwest ISO Stakeholders Standards Collaborators	Yes			
MRO NERC Standards Review Subcommittee	Yes			
PacifiCorp	Yes			
Southern Company	Yes	Redundant requirements in separate standards are both confusing and waste resources.		
NextEra Energy Resources, LLC	Yes			
Colmac Clarion	Yes			
E.ON U.S.	Yes			
Con Edison System Ops	Yes	It should be deleted. I see no need for keeping the R2 wording in there. It's confusing and leaves too much up to interpretation. As stated above, the "coordination of operations" wording in R4 would suffice.		
Manitoba Hydro	Yes			
Entergy Services	Yes			

Organization	Yes or No	Question 4 Comment	
Duke Energy	Yes		
ISO New England Inc.	Yes	We beleive this is sufficiently covered by the Standards in their totality.	
Puget Sound Energy	Yes		
ITC Transmission	Yes		
Bonneville Power Administration	Yes		
PJM's NERC and Regional Coordination Department	Yes	PJM agrees that there is no need to include a requirement that focuses on switching procedures.	
Response: The SDT thanks you for your support.			

5. The RTO SDT is attempting to respond to a directive in FERC Order 693 where a specific country-wide advance notice time period for planned outage notification would be established. Prior to writing such a requirement, the RTO SDT is polling the industry to see if it is needed and what the time period would be. Please indicate if you agree with such a provision. If you agree then please provide a number of days that you would consider appropriate for such advance notice, e.g., 7 days. If you disagree, then please state specific reasons for your disagreement.

Summary Consideration: Order 693, paragraph 1621 stated: "We direct the ERO to modify the Reliability Standard to incorporate an appropriate lead time for planned outages." The SDT posed this question as a fact finding exercise in order to assist them in making a decision on how to respond to the FERC directive. In that regard, the SDT thanks all those who took the time and effort to explain their reasoning as part of their comments. The majority of respondents indicated that they do not feel that there is a reliability based need for such a North American requirement. Several respondents pointed out that such a requirement (if needed at all for reliability) would be better suited to a regional standard and several others stated that such requirements already exist in their particular regions.

After reviewing the industry comments, the SDT concluded that TOP-001-1, Requirement R4 adequately covers this issue. The SDT bases this position on the requirement which includes the Operations Planning Time Horizon that covers the period from one day to one year. The requirement mandates that all plans are coordinated. The SDT interprets this to include planned outages when they are known.

Therefore, the SDT will not be drafting an additional requirement for a national standard advance notice time period for planned outage notification.

Organization	Yes or No	Question 5 Comment (including # of days if appropriate):	
PJM's NERC and Regional Coordination Department	No	A mandated common time-period would likely conflict with some already FERC-approved procedures. Moreover, a common timing requirement will likely as reduce the benefits and flexibility of some procedures, as it would provide benefits to others.	
Consumers Energy Company	No	Communication of planned or scheduled outages should take place in the planning phase. Communication should be as early in the phase as possible for all TOs GOs and BAs effected by the outage. To have a nationwide standard is too confining and removes possible flexibility that can come from open communication. TOP-003-0 requires communication of outage information on a daily basis.	
SERC OC Standards Review Group	No	A time limit does not need to be established. Entities need to be able to plan short term outages, both transmission generation when conditions permit in order to minimize impacts to the reliability of the system. For example, a transmission line in need of maintenance might only be available upon the outage (forced or planned) on a particula generator. With a standard in place, this opportunity would be missed. Delaying maintenance on a transmission line puts it at a greater risk of a forced outage.	

Organization	Yes or No	Question 5 Comment (including # of days if appropriate):	
FirstEnergy Corp	No	We do not believe there is a reliability need to establish a common industry wide lead-time for planned BES facility outages. It should be left to the RC and the applicable entities that it monitors (TOPs, GOPs) to establish agreed upon outage coordination procedures. In fact, it should not be expected that a minimum lead-time must always be rigidly adhered to. Consider that many transmission lines can only be taken out of service during a generator outage. If generator unit experienced a forced outage that would permit certain transmission lines to be maintained, such maintenance should not be delayed to simply adhere to a specific lead-time requirement. The RC's and their monitored entities should be given the flexibility to develop a process that is suitable to meet their needs.	
Dominion Resources Inc.	No	(including # of days if appropriate): We don't recommend a country-wide advance notice. However, we agree that it is within the purview of the Reliability Coordinators to reach agreement with the applicable entity and set outage reporting requirements to meet their reliability assessment needs without the development of a new NERC reliability standard.	
Northeast Power Coordinating Council	No	While we agree in principle with this proposal, it must be recognized that factors affecting equipment outages vary from region to region. Such notification requirements should be established within each region based on the needs of the RC.	
Midwest ISO Stakeholders Standards Collaborators	No	We do not believe there is a reliability need to establish an industry wide advance notification procedure for transmiss outages. We believe that the need for advance notification of transmission outages should be identified completely between the TOP and RC in their outage coordination procedures. In fact, we believe such a requirement could actual be a detriment to reliability. Consider that many transmission lines can only be taken out of service during a generato outage. If the generator were to trip, the transmission line could not be taken out of service for lack of sufficient advar notice delaying the maintenance of the line and, thus, increasing the potential for the line to be forced out. It is not cle what reliability benefit could even be achieved by having an industry wide advance notification requirement. We belie that should such a requirement become a reality, there will be further reliability detriment as TO/TOPs delay maintenance in a struggle to transition to comply with such a requirement.	
MRO NERC Standards Review Subcommittee	No	After the review of the paragraph 1612 of the FERC final order 693, the MRO NSRS would like them to be more sp about the type of outages and consistent with the Reliability Coordinator's requirement; the Reliability Coordinator wide-area view. How would this country-wide advance notice improve reliability for two independent systems not physically interconnected?	
IRC Standards Review Committee	No	This should be handled on a local or regional basis. There is a wide diversity of systems in place with reporting requirements defined, in some cases based in market requirements. It may not be reasonable to place the least common requirement on all entities in NERC.	
Southern Compnay	No	No time limit needs to be established. Entities need to be able to plan short term outages, generation and transmission.	

Organization Yes or No		Question 5 Comment (including # of days if appropriate):			
		The Eastern Interconnection presently has an advanced outage notification through the NERC SDX.			
American Electric Power	No	The current rules for each region are followed today and coordination is done very well. Seams agreements address to coordination across regions. Therefore, a country-wide period is not necessary from a reliability perspective. If it is otherwise determined to be necessary, AEP believes that it should be done at the IROL level since, by definition, these are the situations with wide area impact.			
E.ON U.S.	No	The RCs already have advance notification requirements which TOPs must follow. Most BES facilities have limited impact on neighboring systems. Depending on the level of notification, this could impose an undue burden on Transmisson Operators and field switching personnel in performing needed maintenance. The Regions should identify subset of facilities (similar to the ECAR Facility Outage Notification Table) subject to advanced notification requirement Should a country-wide advance notice time period be established it should only apply to 200kV and above.			
Oncor Electric Delivery	No	Comments (including # of days if appropriate): Oncor Electric Delivery does not believe a country-wide notification period is necessary. As each interconnection has it's unique characteristics, there is no assurance that a common advance notification period would work for all. Additionally, setting a common date within a NERC standard seems inconsistent with the intent of reliability based standards. Advanced notification seems to be more of a market function and is not reliability based.			
Manitoba Hydro	No	We do not believe there is a reliability need to establish an industry wide advance notification procedure for transmission outages. We believe that the need for advance notification of transmission outages should be identified completely between the TOP and RC in their outage coordination procedures.			
Entergy Services	No	There are processes already in place to ensure that outages are coordinated between affected systems. Creating a nation-wide requirement to set an advance notice time is not in the best interests of reliability. Rather flexibility should be allowed to coordinate and agree upon required maintenance activities that are necessary to ensure continued reliability			
Duke Energy	No	This comment form is not the right place to address this issue. We would have significant concerns with the idea too much to support a requirement that hasn't been drafted yet. Existing processes are in place between neighboring entities to exchange this type of information.			
Ameren	No	First, the definition of planned outage is anything but an industry standard. So the rules around timing are putting the carbon before the horse, And, anything in days is not practical given the need to get to short-term planned maintenance and the impacts of weather and forced outages on these planned outages. If a notification time is absolutely deemed necessary 30 minutes to 1 hour would be workable under a mandatory, enforceable NERC standard framework.			

Organization	Yes or No	Question 5 Comment (including # of days if appropriate):	
Brazos Electric Power Cooperative, Inc.	No	At this time I see no reliability benefit for this requirement.	
New York Independent System Operator	No	This should be handled on a local or regional basis. There is a wide diversity of systems in place with reporting requirements defined, in some cases based in market requirements. It may not be reasonable to place the least common requirement on all entities in NERC.	
ISO New England Inc.	No	While we agree in principle with this proposal, it must be recognized that factors affecting equipment outages vary from region to region and, as such, notification requirements should be established within each region based on the needs of the RC. These may be dictated by an entities market structure, which should not be influenced by NERC Standards.	
CenterPoint Energy	No	enterPoint Energy does not see a reliability-related need to establish a continent-wide requirement that specifies the ne frames for advance notification of planned outages. Such an approach does not appear practical considering the arying types of outages (circuit breakers, transformers, buses, and lines) and differing long-range and short-range sheduling time frames. As regional practices are already in place, CenterPoint Energy recommends outage scheduling ne frames continue to be determined on a regional basis.	
Con Edison System Ops		Unless the piece of equipment is in a direct neighboring system, what utility would this offer to a TO? "Operations are already coordinated" amongst neighboring TO's with regard to tie-lines. It would not offer much in the way of information on how we operate our system. However, ConEd already sends notification of all of its approved outages on the Bulk Electric System to the NYISO via email automatically. So, I dont think it would be difficult to do if someone decides that they want 7 or 10 day notifiation on something. If this requirement came into being, the NYISO could then disburse COnEd's outage info to NPCC and rest of the East. A hard-line 7 or 10 day rule will be tough to enforce though. Many outages get approved much closer to the actual datemany within 2 days of the start.	
ITC Transmission		We would rather see a requirement that the RC specify the time period requirements for planned outages. While not opposed to having a uniform time requirement, we are not sure if it is necessary. If a time period is to be developed, it should consider voltage level, in other words more lead time for higher voltages. In addition, RC specified planned outage time period requirements should apply to transmission and generation outages.	
WECC	Yes	We believe outage notification to the RC for all equipment 100kV and above, and all generator outges of 50MW and above should be a mininum of 96 hours notice in advance.	
FMPA and its All Requirements Project Participants, as follows:	Yes	We believe that such a provision is necessary to enable coordination of major maintenance outages to ensure resource adequacy for the region for generation related outages, and to ensure coordination of scheduled transmission outages in a localized area, for seasonal assessment purposes. There are probably two types of maintenance to be addressed,	

Organization	Yes or No	Question 5 Comment (including # of days if appropriate):	
Kissimmee Utility Authority, City of Vero Beach, Lakeland Electric, Florida Municipal Power Pool		major maintenance schedules, and more minor maintenance due to equipment failure that does not cause an unscheduled outage. First, each region does seasonal assessments, it may be a good idea to tie major maintenance schedules as input into the region's seasonal assessments, but allow flexibility in the actual schedules of these major maintenance schedules, with a reasonable input time frame to provide that input, e.g., two months before the start of the season. Second, there will always be unexpected maintenance schedules of shorter duration due to equipment failure that does not cause the facility to have an unscheduled outage, but, needs to be corrected. These are much more difficult to coordinate and schedule and may not allow a multi-day advance notice, so, maybe we could make the requirement only apply to major maintenance schedules.	
Exelon	Yes	Follow existing Guidelines, GADS states "well in advance" as notification for "Planned" outages. This typically means more than 30 days in advance. PJM uses the 30 day definition for "Planned". Nuclear / INPO uses 28 days (4 weeks) from an INPO definition for "Planned". 30 days seems to be a reasonable requirement.	
Colmac Clarion	Yes	Current policy under some existing contract operators requires initial notification on a rolling 3 year plan and additional notification to 'dispatcher' at 30 days. Generally, verbal notification is also conducted between generating facilities and Transmission operator on a much shorter and timely basis additionally. Transmission/Distribution company has a similar long range, and short notification cycle.	
Independent Electricity System Operator	Yes	While we agree in principle with this proposal, it must be recognized that factors affecting equipment outages vary from region to region. Such notification requirements should be established within each region based on the needs of the RC. Our experience in handling short and long term planned outages informs us that the timing and duration of outages will determine the allocation of time and other resource to assess impacts of the outages on the system. For short duration outages, a short term assessment is usually adequate as system conditions and topology are more predictable. The longer the duration of a planned outage, the less predictable are the system conditions and the more likely that other transmission facilities will be out of service during that period.	
PacifiCorp	Yes	The appropriate number of days should be established on a region-wide basis, not a country wide basis. Each region has unique infrastructure that requires specific advance notice.	
Bonneville Power Administration	Yes	No preference.	
NextEra Energy Resources, LLC		No comment.	
Xcel Energy	Yes		

Organization	Yes or No	Question 5 Comment (including # of days if appropriate):		
Response: Thank you for your response. Please see the summary response for details.				

6. Do you generally support the revised standards? If your response is 'No', please explain your single biggest concern with the revised standards, including which specific requirement or set of requirements causes you the most concern and why.

Summary Consideration: Due to industry comments the SDT changed the following:

TOP-001-2, R2. Each Transmission Operator shall inform its Reliability Coordinator and other Transmission Operators known or expected to be affected of actual Emergency and anticipated Emergency conditions.

TOP-001-2, R4. Each Transmission Operator and Generator Operator shall coordinate its respective operations known or expected by the Transmission Operator to have a reliability impact on other reliability entities with those entities unless conditions do not permit such coordination. Such operations include, but are not limited to, relay or equipment failures and changes in generation, Transmission, Load, or operating conditions.

TOP-001-2, R6. Each Transmission Operator shall inform its Reliability Coordinator of all System Operating Limits (SOLs) which, while not IROLs, support its local area reliability.

TOP-001-2, R7.Each Transmission Operator shall inform its Reliability Coordinator of actions being taken to return the system to within limits when an IROL, or SOLs as identified in Requirement R6, has been exceeded.

TOP-001-2, R2 VSL	The Transmission Operator did not inform one affected Transmission Operator of an actual Emergency or anticipated Emergency conditions.	The Transmission Operator did not inform two affected Transmission Operators of an actual Emergency or anticipated Emergency conditions.	The Transmission Operator did not inform three affected Transmission Operators of an actual Emergency or anticipated Emergency conditions.	The Transmission Operator did not inform its Reliability Coordinator of an actual Emergency or anticipated Emergency conditions. OR The Transmission Operator did not inform four or more affected Transmission Operators of actual Emergency and anticipated Emergency conditions.
TOP-001-2, R6 VSL	The Transmission Operator did not inform its Reliability Coordinator of one SOL which, while not an IROL, supports its local area reliability.	The Transmission Operator did not inform its Reliability Coordinator of two SOLs which, while not IROLs, supports its local area reliability.	The Transmission Operator did not inform its Reliability Coordinator of three SOLs which, while not IROLs, supports its local area reliability.	The Transmission Operator did not inform its Reliability Coordinator of four or more SOLs which, while not IROLs, supports its local area reliability.

TOP-002-3, **R1**.Each Transmission Operator shall have an assessment for the next day's operation that indicates whether it will exceed any of its System Operating Limits (SOLs) during anticipated normal conditions and potential single Contingency events.

TOP-002-3, **M1**.Each Transmission Operator shall have evidence of an assessment for next day operations in accordance with Requirement R1. Such evidence could include but is not limited to dated power flow study results.

TOP-002-3, R1 VSL	N/A	N/A		The Transmission Operator does not have an assessment for the next day's operation that indicated whether it will exceed any of its SOLs during anticipated normal and potential single Contingency event conditions.
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TOP-003-1, R1.Each Transmission Operator and Balancing Authority shall have a documented specification for data necessary for Real-time monitoring and reliability assessments. The specification shall include:

TOP-003-1, Part 1.1, bullet #1: Long term outages of Bulk Electric System equipment, as specified by the Transmission Operator or Balancing Authority,

TOP-003-1, R4. Each Balancing Authority, Generator Owner, Generator Operator, Interchange Authority, Load-Serving Entity, and Transmission Owner receiving a data specification in Requirement R2 or R3 shall satisfy the obligations of the documented specifications for data.

TOP-003-1, R5.Each Transmission Operator and Balancing Authority shall provide to other Transmission Operators and Balancing Authorities , the data requested by those other Transmission Operators and Balancing Authorities necessary for Real-time monitoring and reliability assessments.

TOP-003-1, **M4**. Each Balancing Authority, Generator Owner, Generator Operator, Interchange Authority, Load-Serving Entity, and Transmission Owner receiving a data specification in Requirement R2 or R3 shall make available evidence that it has satisfied the obligations of the documented specifications for data in accordance with Requirement R4. The evidence shall be that there are no Transmission Operators as identified in Requirement R2 or Balancing Authorities as identified in Requirement R3 with outstanding requests for data that have been unfilled.

TOP-003-1, M5.Each Transmission Operator and Balancing Authority shall make available evidence that it has provided to other Transmission Operators and Balancing Authorities the data requested by those entities necessary for reliability assessments and Real-time operation in accordance with Requirement R5. Such evidence could include but is not limited to dated operator logs, voice recordings, or e-mail records.

TOP-003-1, R4 VSL	N/A	N/A	N/A	The responsible entity receiving a data specification in Requirement R2 or R3 did not satisfy the obligations of the documented specifications for data
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Organization	Yes or No	Question 6 Comment	
Real Time Best Practices Standards Study Group	No	The Real-time Best Practices Standards Study Group (RTBPSSG) feels that the deletion of TOP-004-2, R4 (Restore system operations from an unknown operating state to proven and reliable limits within 30 minutes) does not provide an adequate level of reliability for the operation of the Bulk Electric System (BES) and the reasoning provided for the removal is flawed. The RTBPSSG believes that this is an important consideration for operations that should not be deleted and that with more deliberations an acceptable measure for such a requirement can be developed. The concept of operating in a known state has long been a fundamental concept of reliable system operations and if this requirement is deleted then there is no requirement to cover this concept. The idea of operating to preclude IROLs or to return to within the limit in Tv does not adequately address this concern.	
Response: Returning below IRC minutes and thus promotes a mo other than to maintain the curren	ore reliable condition. V	te as returning from an unknown state within 30 minutes on a practical basis. T_v can be shorter than 30 Vithout specific suggestions as to how to measure the deleted requirement, the SDT is unable to respond iken.	
American Transmission Company	No	We support the revised Standards. However, the questions asked do not reflect the current redlined versions of the Standards. We should be commenting on the version of the Standard that the drafting team wants to move forward with. The comment form and questions should match the current redlined version and not ask questions related to a proposed changed version.	
Response: Without specific indic	cations of where you fe	el errors were made, the SDT is unable to respond.	
Northeast Power Coordinating Council	No	1. We disagree with removing the requirement for the TOP to operate within SOLs. We are unable to understand the argument that this requirement will "reduce the operational flexibility by eliminating the TOP's ability to determine that a mitigation, such as load shedding, was more severe than the risk of the SOL violation itself, such as exceeding a thermal limit for a short time."SOLs are determined to set upper bounds beyond which transmission facilities may be overloaded or system voltage may be depressed or the operators will be operating in an unknown state. If such upper bounds are to be ignored to enhance operating flexibility, then why should SOLs be determined in the first place and how do we ensure operating reliability?Further, FAC-014 requires TOPS to develop SOLs, why would we be requiring the TOPs to do so while we suggest that they do not need to operate within the bounds that they themselves develop in the first place? Do the two sets of standards contradict each other	
		2. TOP-002-3 M1Power flow study results will not be available for those days where studies are not required. Those days may be considered pre-studied or a normal studied state. How is this to be measured?	

Organization	Yes or No	Question 6 Comment
		 TOP-002-3 R2, R3 ? A plan should be required when the review warrants it and should include both IROL and SOL. In a normal state there may already be existing coordination between reliability entities with no need to re-communicate.
		 TOP-003-1R1: Reference to the Functional Model in the requirement may not be appropriate. This requirement may be clearer if the specific responsibilities are included. R1.1 Long Term Outages should be defined or clarified.
		5. What about other outages that are potentially impactive?
		 In general, it is not clear that the data specification includes real time communications or operational planning requirements.
		 The Data Retention change in Section D 1.4 of TOP-003-1, Operational Reliability Data, from 90 calendar days to three calendar years is excessive. Voice recorder designs vary, and some voice recorders are designed to retain data for 90 days. Have data recordings stored longer than 90 days only if requested by the RC or TOP.
ISO New England Inc.	No	1. We disagree with removing the requirement for the TOP to operate within SOLs. We are unable to understand the argument that this requirement will "reduce the operational flexibility by eliminating the TOP's ability to determine that a mitigation, such as load shedding, was more severe than the risk of the SOL violation itself, such as exceeding a thermal limit for a short time."SOLs are determined to set upper bounds beyond which transmission facilities may be overloaded or system voltage may be depressed or the operators will be operating in an unknown state. If such upper bounds are to be ignored to enhance operating flexibility, then why should SOLs be determined in the first place and how do we ensure operating reliability? Further, FAC-014 requires TOPS to develop SOLs, why would we be requiring the TOPs to do so while we suggest that they do not need to operate within the bounds that they themselves develop in the first place? Do the two sets of standards contradict each other?
		2. TOP-002-3 M1Power flow study results will not be available for those days where studies are not required. Those days may be considered pre-studied or a normal studied state. How is this to be measured?
		3. TOP-002-3 R2, R3 A plan should be required when the review warrants it and should include both IROL and SOL. In a normal state there may already be existing coordination between reliability entities with no need to re-communicate.
		4. TOP-003-1R1: Reference to the Functional Model in the requirement may not be appropriate. This requirement may be clearer if the specific responsibilities are included.
		5. R1.1 Long Term Outages should be defined or clarified. What about other outages that are potentially

Organization	Yes or No	Question 6 Comment	
		impactive?	
		In general, it is not clear that the data specification includes real time communications or operational planning requirements.	
		7. The Data Retention change in Section D 1.4 of TOP-003-1, Operational Reliability Data, from 90 calendar days to three calendar years is excessive. Voice recorder designs vary, and some voice recorders are designed to retain data for 90 days. Have data recordings stored longer than 90 days only if requested by the RC or TOP.	
		ved on this issue, the industry agrees with the SDT position of deleting this phrase. You have not presented the SDT to reverse its decision. No, the SDT does not believe the two standards contradict each other.	
2 – Neither the measure nor the study as one method of measuring		you must have a power flow study for each day. The measure states that you COULD have a power flow	
3 - As drafted it is required to hav addressed the SOL issue in poin		OL as identified by the next day assessment. Mitigation plans are not required for "normal" states. The SDT	
4 –The SDT agrees and has dele year. This should be sufficient to		e Functional Model. The timeframe indicated here is Operations Planning which incorporates one day to one action taken for this comment.	
		or and Balancing Authority shall have a documented specification for data necessary for Real-time e specification shall include:	
5 – The statement includes the te	erm 'but not limited to' s	so it does not preclude the inclusion of other information. No action taken.	
6 – This is a specification and no	t the actual transfer of	data so the Time Horizon is Operations Planning. No change made.	
7 – The SDT has modified Meas	ures 4 & 5 as a result o	f researching your comment. The SDT has changed data retention for Requirements 4 & 5 to 90 days.	
Owner receiving a da specifications for dat	ata specification in Req a in accordance with F	Generator Owner, Generator Operator, Interchange Authority, Load-Serving Entity, and Transmission uirement R2 or R3 shall make available evidence that it has satisfied the obligations of the documented Requirement R4. The evidence shall be that there are no Transmission Operators as identified in s identified in Requirement R3 with outstanding requests for data that have been unfilled.	
Operators and Balar	icing Authorities the da	tor and Balancing Authority shall make available evidence that it has provided to other Transmission ta requested by those entities necessary for reliability assessments and Real-time operation in accordance d include but is not limited to dated operator logs, voice recordings, or e-mail records.	
Midwest ISO Stakeholders Standards Collaborators	No	 We believe removing the requirements for SOLs in this standard will make it unacceptable to FERC. Thus, the drafting team will have to start over when FERC remands the standard. 	

Organization	Yes or No	Question 6 Comment
		2. The VSLs for TOP-001-2 R2 are based on the number of times the TOP did not inform the RC of Emergency conditions. Over what time period does this apply? In perpetuity? From last compliance audit?
		3. We believe the VSLs for TOP-001-2 R6 violates the Commission's guideline 4 established in their VSL order. The VSLs are based on the number times the TOP did not act to mitigate the magnitude and duration of an IROL exceedance within its Tv. However, the associated requirement states The Transmission Operator shall act or direct others to act, to mitigate the magnitude and duration of exceeding an IROL within the IROL's Tv. Note that the requirement talks about an IROL in the singular. Thus, failure to act on one occasion is a single violation. Failure to act on two occasions is two separate violations not a higher VSL. We suggest that a binary Severe VSL be selected or that you modify the requirement to consider IROLs in the plural.
		4. In TOP-002-3, the drafting team should consider making R2 a sub-requirement of R1. Isn't it a sub- component of the assessment the TOP must have in R1?
		5. R3 should be made sub-requirement of R2.
		M1 deviates from R1 in that M1 says that the TOP shall have evidence that it performed an assessment while R1 says it shall have an assessment. Likewise, the VSL differs from the requirement in the same way and should be made to match the requirement.
		 In TOP-003-1, we note that R3 requires the BA to distribute its data specification but there is not a similar requirement to have a data specification like R1 for the TOP.
		8. We believe R3 belongs in the BAL standards.
		9. We also suggest that the VSLs for R4 and R5 could be graded to include multiple levels. In R4, we believe the additional VSLs could be defined based on the percentage of data that is not supplied. The VSLs for R5 could be graded based on the number TOPs and BAs that the TOP did not supply data and information to. We further believe that the portion of the requirement in R5 that applies to the BA should be moved to the BAL standards.
		 In TOP-004-3, M1 appears to be a measure of non-compliance with R1. Aren't measures supposed to identify how compliance is measured not non-compliance? The VSLs measure non-compliance.

additional evidence that would cause the SDT to reverse its decision.

2 – The SDT has revised the VSL.

Organization	Yes or No		Question 6 Comment	
TOP-001-2, R2 VSL	The Transmission Operator did not inform one other Transmission Operator of an actual Emergency or anticipated Emergency conditions.	The Transmission Operator did not inform two other Transmission Operators of an actual Emergency or anticipated Emergency conditions.	The Transmission Operator did not inform three other Transmission Operators of an actual Emergency or anticipated Emergency conditions.	The Transmission Operator did not inform its Reliability Coordinator of an actual Emergency or anticipated Emergency conditions. OR The Transmission Operator did not inform four or more other Transmission Operators of an actual Emergency or anticipated Emergency conditions.
3 – The SDT agrees with th	ne suggested change to the VSL.			
TOP-001-2, R6 VSL	The Transmission Operator did not inform its Reliability Coordinator of one SOL which, while not an IROL, support its local area reliability.	The Transmission Operator did not inform its Reliability Coordinator of two SOLs which, while not IROLs, support its local area reliability.	The Transmission Operator did not inform its Reliability Coordinator of three SOLs which, while not IROLs, support its local area reliability.	The Transmission Operator did not inform its Reliability Coordinator of four or more SOLs which, while not IROLs, support its local area reliability.
4 & 5 – The SDT believes t	hese are separate standalone requ	irements. No change made.		
6 – The SDT has changed	M1 and the R1 VSL.			
	 Each Transmission Operator sha include but is not limited to dated p 		t for next day operations in accord	dance with Requirement R1. Such
TOP-002-3, R1 VSL	N/A	N/A	N/A	The Transmission Operator does not have an assessment for the next day's operation that indicated whether it will exceed any of its SOLs during anticipated normal and potential single Contingency

Organization	Yes or No		Question 6 Comm	nent
				event conditions.
7 – Please see R2 of TOP-003	3-1.		·	· · · · · · · · · · · · · · · · · · ·
8 – The SDT does not believe	that there is a relevant sp	pot in the BAL standards for s	uch a requirement. No change m	ade.
				The SDT does not feel that with this new as not made a change in this area.
			Operator, Interchange Authority, I obligations of the documented spe	Load-Serving Entity, and Transmission Owner perifications for data
Owner receiving a specifications for c	data specification in Rec	quirement R2 or R3 shall mak Requirement R4. The eviden	e available evidence that it has sa	Load-Serving Entity, and Transmission atisfied the obligations of the documented smission Operators as identified in ta that have been unfilled.
TOP-003-1, R4 VSL	N/A	N/A	N/A	The responsible entity receiving a data specification in Requirement R2 or R3 did not satisfy the obligations of the documented specifications for data
10 – The SDT felt it would be e hour proving that an IROL and			IROL T_V was violated compared to	o providing information of every operating
FirstEnergy Corp	No	understand their thought pr TOP-007-0 R3 that states, shedding firm load, or direc covered in EOP-001-0, Red Authority shall have emerg Transmission Operator and coordinated with and amon 2. The SDT is proposing to associated measure M1.4 s	rocess on the matter. Our prior co "A Transmission Operator shall ta sting the shedding of firm load ??" quirement R3.3 that states, R3. Ea ency plans that will enable it to mit Balancing Authority emergency p g adjacent Transmission Operator retire PER-001 and FE believes t should be re-enforced within the T	Draft 1 Question 12 is not sufficient for us to omment raised a concern with the removal of ake all appropriate actions up to and including The SDT responded that this matter is ach Transmission Operator and Balancing tigate operating emergencies. At a minimum, olans shall include: R3.3. The tasks to be rs and Balancing Authorities.? the PER-001 requirement R1 and its TOP standards. This operator authority was a y and should be explicit within a TOP

Organization	Yes or No	Question 6 Comment
		requirement. We would appreciate further explanation from the SDT if they feel the change is still not required.
		3. FE disagrees with the SDT's response to our comment on Draft 1 Q4 which questioned which contingencies are required to be evaluated within the operating horizon. The prior TOP-002-2 requirement R6 stated R6. Each Balancing Authority and Transmission Operator 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. This concept is lost in the newly proposed TOP standards. In responding the SDT stated that the Transmission Operator is not limited to single Contingencies or bus faults but must study any and all conditions that may result in exceeding any of its System Operating Limits during anticipated normal conditions as stated in the Requirement. The potential Contingencies to be studied are limited to those spelled out in the TPL standard. FirstEnergy does not agree that there is an expectation to cover all TPL contingencies within the operating horizon. As vetted by industry in the recent proposed and subsequently withdrawn SAR that proposed to evaluate credible multiple contingencies?
		it is clear that studies within the planning and operations horizon are distinctly different and that there is no expectation to cover events in real-time or within the operating horizon (next day, next month, through one year out) beyond single contingency. We ask the SDT to clarify their comment in this regard.
		4. We would like the SDT to explain why it found the need to introduce the term each in requirement R1 of TOP-002-1. As re-worded, the focus of the compliance audit may become too structured on strict adherence to each directive rather than the TOP meeting the intent of the RC's directives. If the wording remains, we believe the VSLs can be better graded and that missing a single directive should not warrant a severe VSL. Many of the proposed VSLs use a quartile approach (0-25%, 25-50%,50%-75% and >75%) of gauging if some reliability action was missed. FERC in its VSL Order dated June 19, 2008 took exception to the quartile approach and felt it violates its Guideline 1 ?Violation Severity Level Assignments Should Not Have the Unintended Consequence of Lowering the Current Level of Compliance? see paragraphs 19 through 21. The VSL DT revised the VLS that previously used a quartile score to reflect a 0-5%, 5%-10%, 10-15% and >15% graded VSL approach. Its suggested that the SDT reconsider its use of quartile VSLs.
		5. We believe the VSLs for TOP-001-2 R6 violates the Commission's Guideline 4 established in their VSL order. The VSLs are based on the number times the TOP did not act to mitigate the magnitude and duration of an IROL exceedance within its Tv. However, the associated requirement states The Transmission Operator shall act or direct others to act, to mitigate the magnitude and duration of exceeding an IROL within the IROL's Tv. Note that the requirement talks about an IROL in the singular. Thus, failure to act on one occasion is a single violation. Failure to act on two occasions is two separate violations not a higher VSL. We suggest that a binary Severe VSL be selected or that you modify the

Organization	Yes or No		Question 6 Comment	
		requirement to consider IROLs in the pl	ural.	
		6. In TOP-003-1 R1.1 second bullet the SDT introduced a new requirement that for data exchange related to equipment at voltage levels below the BES and left the need for this data at the discretion of the TOP or BA. FirstEnergy believes the inclusion of equipment lower than normal BES levels should not be introduced on an ad-hoc standard by standard basis. Rather, if such equipment is deemed necessary for the reliability of the BES then the Facilities may need to be subject to other reliability standards such as vegetation management, preventative maintenance, etc. Inclusion of such equipment should be a registration issue handled through the Regional Entity and not within individual standard requirements. However, providing such data could be requested and provided on a voluntary basis, but if the equipment is deemed essential for BES reliability other standards likely apply.		
Response: 1 – The SDT apolog	gizes for any confusion.	The duplicative standard is EOP-001-0, F	Requirement R2.3.	
		sons. First, it is not measurable. Second, ctions to ensure stable and reliable operations to ensure stable and reliable operations.		
		comments from First Energy for Q4 in Dr ition which is based on the development of		rect. The SDT added the word
		r shall have an assessment for the next d icipated normal conditions and potential s		ther it will exceed any of its
4 – The SDT believes that you n change made.	neant TOP-001-2, Requ	irement R1. The SDT believes that if an	entity misses a reliability directive	e, it is a Severe violation. No
5 – The SDT agrees with the su	ggested change to the	/SL.		
TOP-001-2, R6 VSL	The Transmission Ope did not inform its Relial Coordinator of one SO which, while not an IROL, supports its loca reliability.	bility did not inform its Reliability L Coordinator of two SOLs which, while not	The Transmission Operator did not inform its Reliability Coordinator of three SOLs which, while not IROLs, supports its local area reliability.	The Transmission Operator did not inform its Reliability Coordinator of four or more SOLs which, while not IROLs, supports its local area reliability.
		as responding to a directive in Order 693 also important enough to be required in g		t was crafted. The SDT believes
IRC Standards Review	No	(1) We believe there is a fundamental principle that TOPs need to operate their systems within SOLs. We propose the SDT re-instate the deleted words from TOP-004 R1 that address SOLs. Recognizing that not		

Organization	Yes or No	Question 6 Comment	
Committee		all SOLs have an impact on interconnected system reliability if their exceedances are not mitigated with some target time period, we propose the SDT consider qualifying the SOLs which the TOP must operate within along the same line as we propose in our comments under Q2, namely, the set to be identified by the TOP subject to its RC's concurrence. (Please note that ERCOT abstained from these comments) To more fully address the issue with some SOLs that do not have any reliability impacts, we propose the S consider revising the definition of SOL. This will eliminate the need for each TOP to identify this subset and obtain the RC's concurrence.	
		(2) We generally support the direction the SDT is moving but would require consideration of the comments provided in this transmittal. What is replacing TOP-001 R7? The requirement was previously TOP-008-R2, got moved to TOP-001 R7, but now both TOP-001 R7 is deleted and TOP-008 is deleted. Is there still going to be a requirement to use the most restrictive limit when multiple entities have different limits?	
		(3) TOP-003-1 makes reference to functional responsibilities and responsibilities per the NERC Functional Model. We do not agree with these references since it is unclear the status of the NERC Functional Model and how it relates to the NERC Standards. It has been noted that the NERC Functional Model is only for guidance and is not a standard.	
	Response: 1 – Based on the previous comments received on this issue, the industry agrees with the SDT position of deleting this. You have not presented any ustification or additional evidence that would cause the SDT to reverse its decision. For clarity, the SDT has added a new requirement to TOP-001-2 to cover the save on SQLs that must be reported.		
		or shall inform its Reliability Coordinator of actions being taken to return the system to within limits when an R6, has been exceeded.	
2 – As pointed out in the response	ses to comments for the	e first posting, the SDT deleted this requirement as it is duplicative of IRO-05-3, Requirement R10.	
3 – The SDT agrees and has cha	anged the requirement	accordingly.	
		or and Balancing Authority shall have a documented specification for data necessary for Real-time e specification shall include:	
Exelon	No	In general, Exelon supports the revisions and appreciates the work being done by the SDT to consolidate and clarify the requirements. We have some concerns with the langauge in TOP-001-2 R4."Coordinate" - We believe this needs to be better defined.	
		"Known or expected to have a reliability impact" – Reliability impact needs to be defined better, can measures be identified, such as; cause a system to violate a limit under expected conditions? Consider adding the words in the judgment of the TOP before the word expected. Otherwise this may become a point of contenetion and difficulty during an audit. If the GO is not removed (see question 2)the GO is not	

Organization	Yes or No	Question 6 Comment
		likely to have the ability to know what reliability impacts its actions might have."other reliability entities" - needs to be defined.
		"Unless conditions do not permit such coordination" - if this clause is getting at the issue of time not available, consider unless based on the reasonable judgment of the TO, considering the facts and circumstances at the time, conditions do not permit such coordination.? We feel the point of the requiremnts should be when a GO/TO knows or reasonably should know that an action will have a substantial adverse reliability impact on another operating entity (define), the GO/TO should inform the other entity and consider that other entity's input in deciding how to operate, if time permits.
Response: The SDT believes the shared to support reliability. No content of the support reliability.		iability impacts on other reliability entities will be known and/or expected and this information should be
		ving the Generator Operator from this requirement. However, the Generation Operator will not know what Transmission Operator. Therefore, the SDT has added the suggested wording to the requirement.
Transmission Opera	tor to have a reliability out are not limited to, re	tor and Generator Operator shall coordinate its respective operations known or expected by the impact on other reliability entities with those entities unless conditions do not permit such coordination. Such any or equipment failures and changes in generation, Transmission, Load, or operating conditions.
Consumers Energy Company	No	TOP-003-1 R1.1 needs to be more specific in identifying the equipment to be considered for inclusion.
Response: The SDT believes th	e individual entities are	e best capable of determining the data required to fulfill their reliability functions. No change made.
Duke Energy	No	 TOP-001 R2 Need to change affected to adjacent, and in the VSLs TOP-001 R4 Change other to adjacent,
		 and in the VSLs TOP-001 R4 If coordinating means that we're posting the information on SDX, then we are in agreement
		- TOP-001 R6 Need clari
Response: Based on stakeholde "adjacent."	er comments, the SDT	changed, "affected" to "other" in TOP-001, Requirement R2. 'Other' provides flexibility and includes
The SDT believes that posting or	n SDX could be coordir	nation but that the key element is that actions are coordinated in some manner. No change made.

Organization	Yes or No	Question 6 Comment	
New York Independent System Operator	No	We generally support the direction the SDT is moving but would require consideration of the comments provided in this transmittal. What is replacing TOP-001 R7? The requirement was previously TOP-008-R2, got moved to TOP-001 R7, but now both TOP-001 R7 is deleted and TOP-008 is deleted. Is there still going to be a requirement to use the most restrictive limit when multiple entities have different limits?	
		TOP-003-1 makes reference to functional responsibilities and responsibilities per the NERC Functional Model. We do not agree with these references since it is unclear the status of the NERC Functional Model and how it relates to the NERC Standards. It has been noted that the NERC Functional Model is only for guidance and is not a standard.	
		The Data Retention change in Section D 1.4 of TOP-003-1, Operational Reliability Data, from 90 calendar days to three calendar years is excessive. Voice recorder designs vary, and some are designed to retain data for 90 days. The SDT should take into consideration the storage media. In some cases equipment is changed and the data may not be obtainable, or cost prohibited.	
Response: As pointed out in the	responses to commer	Its for the first posting, the SDT deleted this requirement as it is duplicative of IRO-05-3, Requirement R10.	
The SDT agrees and has change	ed the requirement acc	ordingly.	
	TOP-003-1, R1 . Each Transmission Operator and Balancing Authority shall have a documented specification for data necessary for Real-time monitoring and reliability assessments. The specification shall include:		
The SDT has modified Measures	The SDT has modified Measures 4 & 5 as a result of researching your comment. The SDT has changed the data retention for Requirements 4 & 5 to 90 days.		
TOP-003-1, M4 . Each Balancing Authority, Generator Owner, Generator Operator, Interchange Authority, Load-Serving Entity, and Transmission Owner receiving a data specification in Requirement R2 or R3 shall make available evidence that it has satisfied the obligations of the documented specifications for data in accordance with Requirement R4. The evidence shall be that there are no Transmission Operators as identified in Requirement R2 or Balancing Authorities as identified in Requirement R3 with outstanding requests for data that have been unfilled.			
TOP-003-1, M5 . Each Transmission Operator and Balancing Authority shall make available evidence that it has provided to other Transmission Operators and Balancing Authorities the data requested by those entities necessary for reliability assessments and Real-time operation in accordance with Requirement R5. Such evidence could include but is not limited to dated operator logs, voice recordings, or e-mail records.			
CenterPoint Energy	No	CenterPoint Energy believes reliability requirements should not include vague and unmeasurable, fill-in- the-blank provisions, like those shown in TOP-003 Requirement 1. R1 states Each Transmission Operator and Balancing Authority shall have a documented specification for data required to fulfill their respective responsibilities per the NERC Functional Model. In addition, CenterPoint Energy disagrees with the accompaning TOP-003 Requirement 4 that requires numerous entities to comply with fill-in-the- blank provisions developed through R1. As written, R1 leaves it open to the whim of a Transmission Operator or Balancing Authority to conjure a list of required data, without any process for impacted entities	

Organization	Yes or No	Question 6 Comment
		to argue the reasonabless of the data. In R1.1, the SDT has added two examples of required data by stating Long term outages of Bulk Electric System equipment when they are known and Equipment at voltage levels lower than the Bulk Electric System, at the discretion of the Transmission Operator or Balancing Authority?. These vague examples leave it to the total discretion of a Transmission Operator or Balancing Authority. CenterPoint Energy recommends rewording Requirement 1 and deleting TOP-003 Requirement 4.
Response: The SDT has change	ed Requirements R1 ar	nd R4 to provide clarity to this issue.
		or and Balancing Authority shall have a documented specification for data necessary for Real-time e specification shall include:
		Generator Owner, Generator Operator, Interchange Authority, Load-Serving Entity, and Transmission Owner nt R2 or R3 shall satisfy the obligations of the documented specifications for data.
Independent Electricity System Operator	No	We do not support the revised standards. Our biggest concern is the removal of the requirement for TOP to operate within SOLs as stated in our response to Q#3. As stated in our previous comments we are unable to understand the argument that this requirement will "reduce the operational flexibility by eliminating the TOP's ability to determine that a mitigation, such as load shedding, was more severe than the risk of the SOL violation itself, such as exceeding a thermal limit for a short time."SOLs are determined to set upper bounds beyond which transmission facilities may be overloaded or system voltage may be depressed or the operators will be operating in an unknown state, even before IROL violations become evident. If such upper bounds are to be ignored to enhance operating flexibility, the BES would be very vulnerable to instability, uncontrolled separation, or cascading outages upon the occurrence of subsequent contingencies. The 2003 blackout started off with an SOL violation, and is a good example of how a "localized" problem can propagate thru the interconnected network to become a widespread reliability problem.Further, FAC-014 requires TOPS to develop SOLs, why would we be requiring the TOPs to do so while we suggest that they do not need to operate within the bounds that they themselves develop in the first place? Do the two sets of standards contradict each other? We are also very concerned that R1/R2 in TOP-002 requires the TOP to assess potential exceedence of IROLs only but not SOLs. We feel strongly that R2 in TOP-002 should be revised so that it includes as part of the requirement, preclusion of operating in excess of any SOLs. Further, we believe that all SOLs should be respected in the planning time-frame and in real time with the exception of low likelihood or rare circumstances.

Organization	Yes or No	Question 6 Comment
		were talking about IROL - a subset of SOL. The argument that the TOP is required to calculate SOL but does not need to operate within all the time seems irrational. Operating with SOL all the time and correct exceedance within some defined time period is necessary to ensure reliability. The examples/rationale cited in the question asked in the previous comment form: The SDT felt that requiring a TOP to operate within all SOLs could effectively reduce the TOPs operational flexibility by eliminating the TOP's ability to determine that a mitigation, such as load shedding, was more severe than the risk of the SOL violation itself, such as exceeding a thermal limit for a short time. was but one such situation. Load shedding to reduce equipment loading is often regarded by TOPs as an exception, i.e., load is not shed to correct a temporary exceedance of equipment rating or a potential exceedance of applicable equipment rating if a contingency were to occur. The rationale is simply to not shed load if exceedance of the facility's continuous rating is expected to be temporary, or if a contingency were to occur then the expected loading will exceed the concerned equipment's applicable rating since we do not shed load pre-contingency to avoid shedding load after a contingency has occurred.Operating within SOL, it opens the door to various kinds of unreliable operating conditions. A first overloaded line, which trips because it loading is not corrected, will cause loading on other lines to increase. There is no certainty as to when and where loading on the remaining system will cease to cause additional tripping. Also, the absence of such a requirement begs the question on the need to:(a) Calculate SOL (FAC-014) in the first place. The SDT's response that FAC-014 also requires the TOP to ?communicate your SOLs to other entities so that they can respect your operational limits? seems a bit unfair since the TOP, as the SOL developer, does not itself need to respect the SOLs. The BA, GOP or the RC, while the TOP has the tran
		(b) Perform day ahead analysis (TOP-002, R1) without requiring any follow-on actions if the analysis shows that SOLs will be exceeded. Developing SOLs and assessing if they will be exceeded would simply be an academic exercise. We are unable to determine how will not respecting SOLs and not having follow-on actions when SOLs are assessed to be exceeded contribute to reliability?
		(c) Report exceedances and corrective actions taken (TOP-001, R5). This serves no purpose if a TOP is not required to operate within SOLs.
		(2) TOP-002, R1 requires a TOP to assess next day operations and identify if any SOLs will be exceeded, and the actions related to SOL stops there. It is irresponsible for the TOP to not do anything such as adjusting outage plans and/or requesting adjustment to resource plans to arrive at operating conditions that will no cause SOLs to be exceeded. A requirement similar to that of R2 (for the IROL) should be developed. The only difference between them would be the need to prepare for load shedding when

Organization	Yes or No	Question 6 Comment
		mitigating measures run out.
		(3) We noted that some VSLs are graded according to the number of occurrences. Please refer to the recent posting on the revised VSLs for 8 sets of standards, in which the VSLSDT made reference to the June 2008 FERC Order on VSL. In the Order, FERC provided a guideline (among others) that VSLs should not be determined by the number of occurrence. Specifically, FERC's Guideline #4 stipulates that:Guideline 4 VSLs should be based on a single violation, not on a cumulative number of violations (unless stated otherwise in the requirement).We suggest the SDT to revise these VSLs accordingly.

Response: Based on the previous comments received on this issue, the industry agrees with the SDT position of deleting this requirement. You have not presented any justification or additional evidence that would cause the SDT to reverse its decision. The SDT has added TOP-001-2, Requirement R6 and modified TOP-001-2, Requirement R7 to provide clarity around this position. The SDT does not feel that the 2 standards contradict each other.

TOP-001-2, R6. Each Transmission Operator shall inform its Reliability Coordinator of all System Operating Limits (SOLs) which, while not IROLs, support its local area reliability.

TOP-001-2, R7. Each Transmission Operator shall inform its Reliability Coordinator of actions being taken to return the system to within limits when an IROL, or SOLs as identified in Requirement R6, has been exceeded.

TOP-002-3 is for planning purposes only. TOP-001-2 addresses operations. TOP-002-3, Requirement R1 explicitly requires the assessment of SOLs and Requirement R2 states that you should *plan* to avoid operating in excess of IROLs. You have not presented any evidence to convince the SDT to change our position and the majority of the industry agrees with the SDT's position. A change was made to TOP-001-2 to address operations as shown above.

The SDT feels that TOP-002-3, Requirements R1 & R2 provides sufficient assurance that the next day operations will be reliable. The SDT does not agree with the contention that the revised standards will lead to unreliable operating conditions nor have you provided evidence of this contention. The SDT has not received consequential comments to cause the SDT to change its position. No change made.

- (b) The SDT feels that TOP-002-3, Requirements R1 & R2 provides sufficient assurance that the next day operations will be reliable. The SDT does not agree with the contention that the revised standards will lead to unreliable operating conditions nor have you provided evidence of this contention. The SDT has not received consequential comments to cause the SDT to change its position. No change made.
- (c) The SDT has modified TOP-001-2, Requirement R7 to provide clarity on what SOLs need to be reported.
 - (2) The SDT feels that TOP-002-3, Requirements R1 & R2 provides sufficient assurance that the next day operations will be reliable. The SDT does not agree with the contention that the revised standards will lead to unreliable operating conditions nor have you provided evidence of this contention. The SDT has not received consequential comments to cause the SDT to change its position. No change made.
 - (3) If the requirement is singular, then each occurrence is a separate violation. If the requirement is plural, then multiple occurrences are a single violation. The SDT believes this is consistent with the FERC Order on VSLs. Without specific references, the SDT sees no reason for change.

Southern Compnay No TOP-001 R2: The phrase shall coordinate its respective operations	known or expected to have a reliability
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Organization	Yes or No	Question 6 Comment	
		impact on other reliability entities could cause compliance issues due to the resulting subjectivity of the identification of other reliability entities. Recommend that it replaced with shall coordinate its respective operations known or expected to have a reliability impact on adjacent reliability entities? It should be the responsibility of the adjacent reliability entity to further coordinate, if necessary, other appropriate reliability entities. The Measures and VSLs would need to be modified accordingly	
		.TOP-002 R2 uses the word "plan" as a verb, and then it is referenced in R3 as a noun. This is propagated in the Measures and VSLs. Suggest the following wording change in R2: The Transmission Operator shall have a coordinated plan??	
		TOP-003 R1.1 - suggest that "Long term" be removed and replaced with "Planned". "Long term" could be interpreted to mean an outage that will not occur for quite some time (long lead time), or an outage that will occur sooner but will last for a long time. All outages should be communicated.	
		R1.2 - Disagree with this requirement. We recommend that it be struck. The TO and the BA must be able to specify formats that can be utilized by their processes to ensure reliability.	
Response: The word 'coordinate affected Transmission Operators	Response: The word 'coordinate' is not used in TOP-001-2, Requirement R2 but upon review the SDT has modified the wording to address your concern about affected Transmission Operators.		
	TOP-001-2, R2. Each Transmission Operator shall inform its Reliability Coordinator and other Transmission Operators known or expected to be affected of actual Emergency and anticipated Emergency conditions.		
The SDT sees no reason to change the wording in TOP-002-3, Requirements R2 & R3. Plan can be both a noun and a verb and the usage here is self-explanatory.			
Long term is 'defined' by the use	Long term is 'defined' by the use of the Operations Planning Time Horizon which is limited to one year.		
The SDT believes that R1.2 is a reasonable attempt to solve the problem where there are 2 different systems involved. Deleting the requirement doesn't solve the problem. No change made.			
Brazos Electric Power Cooperative, Inc.	No	See responses to previous questions.	
Response: Please see responses to previous comments.			
Bonneville Power Administration	Yes	Some suggestions:TOP-002-3 1) R1. Remove "and potential Contingency events". Any event could temporarily increase flows over the SOL (or IROL) or cause the SOL to decrease until the flows are mitigated per ROP-001. The system studies set the SOL's to protect the system for such events. The mitigation is then required in TOP-001-2 then (and TOP-004 if it is kept).	

Organization	Yes or No	Question 6 Comment
		2) R1. Reword R1 similar to that of R2 in that TOP "plans" to preclude operating in excess of any SOLs for anticipated normal conditions. This is normal operational planning. All entities should not be planning to exceed SOL for normal conditions.
		Rewording: R1. "The Transmission Operator shall plan next days operation to preclude operating in excess of any System Operating Limits (SOLs) during anticipated normal conditions."
Response: The SDT believes the SOLs.	nat the phrase must rem	nain as you must perform an assessment including Contingencies to properly analyze any exceedances of
	dards will lead to unrelia	provide sufficient assurance that the next day operations will be reliable. The SDT does not agree with the ble operating conditions nor have you provided evidence of this contention. The SDT has not received s position. No change made.
Project 2007-02 Operating Personnel Comm Protocols SDT	Yes	The Operating Personnel Communication Protocols standard drafting team respectfully requests that the Real Time Operations team incorporate the following into your proposed TOP-001: ?Each Reliability Coordinator, Balancing Authority, and Transmission Operator shall have procedures for the communication of information concerning the transmission emergency alerts in accordance with the conditions described in Attachment 1 Transmission Emergency Alerts .?
		In addition, the Applicability Section 4 would need to include Reliability Coordinators.
		The Operating Personnel Communications Protocols Project 2007-02 was initiated to ensure that real time system operators use standardized communication protocols during normal and emergency operations to improve situational awareness and shorten response time. The SDT developed a new COM-003-1 Standard that has yet to be posted and is dependent upon revising at least two other standards (CIP-001 and appropriate TOP Standard). COM-003 contains requirements that specify:1. Use of three-part communication; 2. English language; 3. Common time zone; 4. NATO alpha-numeric alphabet; 5. Mutually agreed line identifiers; 6. The use of pre-defined system condition terminology such as those contained in the RCWG Alert Level Guide and EOP-002-2. This request is based on recent NERC Standards Committee direction to our team to incorporate the Reliability Coordinator Working Group's (RCWG) Alert Level Guide into a Standard. The consensus of our team is that a TOP Standard is the most appropriate location for the Transmission Emergency Alert language from the Guide as the energy emergency alert language is currently described in EOP-002-2. The RCWG Guide proposes the use of pre-defined system condition descriptions for use during emergencies for reliability related information. This guide was developed in response to a Blackout Report recommendation. Our team placed the energy cyber and physical security emergency alert language into CIP-001. Since the Real Time Operations SDT is currently modifying TOP-001 through 004, we seek your consent to incorporate the transmission emergency alert language to comply with the wishes of the Standards Committee.We believe that a TOP

Organization	Yes or No	Question 6 Comment
		Standard is the most appropriate location for this language for the following reasons:? The levels of emergency conditions related to the transmission system is based upon maintaining the transmission system within Interconnection Reliability Operating Limits. ? Your proposed TOP-001 R2 already requires the sharing of information of actual and anticipated transmission emergency conditions and the use of pre- defined terminology supports the efficient sharing of such information. The following text is appended here for the record. It is the OPCP SDT proposal for a revised TOP Standard that incorporates the TEA material.Standard TOP-004-3 ? Transmission OperationsAdopted by Board of Trustees: November 1, 2006 Page 1 of 17Effective Date: October 1, 2007A.Introduction1.Title: Transmission operated so that instability, uncontrolled separation, or cascading outages will not occur as a result of the most severe single Contingency and specified multiple Contingencies; and to communicate transmission emergency alerts. 4.Applicability:4.1.Reliability Coordinator4.2.Balancing Authority4.3.Transmission Operators5.Proposed Effective Date: First day of first calendar quarter, one calendar year following applicable regulatory approval; or, in those jurisdictions where no regulatory approval is required. the first day of the first calendar quarter a year from the date of Board of Trustee adoption. B. RequirementsR1. Each Transmission Operator shall operate within the Interconnection Reliability Operating Limits (IROLs) and System Operating outages will not occur as a result of the most severe single contingency.R3.Each Transmission Operator shall operate to protect against instability. uncontrolled separation, or cascading outages will not occur as a secult of the most severe single contingency.R3.Each Transmission Operator shall operate to be in an emergency and shall restore operations that make every effort to remain connected to the Interconnection. If the Transmission Operator shall make every effor to remain connected to

Organization	Yes or No	Question 6 Comment
		upon request evidence that could include, but is not limited to, operator logs, voice recordings or transcripts of voice recordings, electronic communications, alarm program printouts, or other equivalent evidence that will be used to determine if it restored operations to respect proven reliable power system limits within 30 minutes as specified in Requirement 4.M2. Each Transmission Operator shall have and provide upon request current policies and procedures that address the execution and coordination of activities that impact inter- and intra-Regional reliability for each of the topics listed in Requirement 6.1 through 6.6.M3.Each Reliability Coordinator, Balancing Authority, Transmission Operator shall have and provide upon request the procedures or guidelines that will be used to confirm that it meets Requirement 7. Standard TOP-004-3 ? Transmission Operator shall be responsible for compliance Monitoring ResponsibilityRegional Reliability Organizations shall be responsible for compliance monitoring 1.2. Compliance Monitoring and Reset Time FrameOne or more of the following methods will be used to assess compliance:-Self-certification (Conducted annually with submission according to schedule.)-Spot Check Audits (Conducted anytime with up to 30 days notice given to prepare.)-Periodic Audit (Conducted once every three years according to schedule.)-Tiggered Investigations (Notification of an investigation must be made within 60 days of an event or complaint of noncompliance. The entity will have up to 30 days to prepare for the investigation. An entity may request an extension of the preparation period and the extension will be considered by the Compliance durits or Measure 1.3.Data RetentionEach Transmission Operator shall keep 90 days of historical data for Measure 1.5.ach Transmission Operator shall keep 90 days of historical data for Measure 1.2.Data Measure 1.2.Lach Transmission Operator shall keep 90 days of historical data for Measure 1.2.Cempliance to Measure 2.1.Level 2.2.Level 2.2.Level 2: Did not Me

Organization	Yes or No	Question 6 Comment
		1, 2006Revised2December 19, 2007Revised to reflect merging of both sets of changes approved by BOT on November 1, 2006 (Addition of measures and compliance elements and revisions to R3 and R6 with conforming changes made as errata to Levels of Non-compliance)RevisedErrataStandard TOP-004-3 ? Transmission OperationsAdopted by Board of Trustees: November 1, 2006 Page 5 of 17Effective Date: October 1, 2007Attachment 1-TOP-004-3
		Transmission Emergency Alert (TEA) LevelsIntroductionThis Attachment provides the procedures by which a Transmission Operator or Reliability Coordinator can advise of actions taken to manage potential or actual Interconnected Reliability Operating Limit (IROL) violations. All three operating alert states (EEAs, TEAs and SEAs) are independent of each other and should be declared independently but they may also be declared concurrently. A. General Requirements1. Initiation by Reliability Coordinator. A Transmission Emergency Alert (TEA) may be initiated only by a Reliability Coordinator at:1) the Reliability Coordinator's own request, or2) upon the request of a Transmission Operator1.1. Situations for initiating alert. A Transmission Emergency Alert may be initiated for the following reasons: When all the available generation resources (would also include dispatchable load facilities that dispatch similar to generators on an economic basis) have been committed to respect an IROL. 2. Notification. A Reliability Coordinator who declares a Transmission Emergency Alert shall notify all Transmission Operators and Balancing Authorities in its Reliability Area. The Reliability Coordinator shall also notify Reliability Coordinators of the situation via theReliability Coordinator Information System (RCIS) using the System Emergency category. Additionally, conference calls between Reliability Coordinators shall be held as necessary to communicate system conditions. The Reliability Coordinator shall also notify all Transmission Operators and Balancing Authorities in its Reliability Area and Reliability Coordinator shall also notify all Transmission Operators and Balancing Authorities in its Reliability Area and Reliability Coordinators when the alert has ended.B. Transmission Emergency Alert LevelsIntoductionStandard TOP-004-3 Transmission Operators will be Board of Trustees: November 1, 2006 Page 6 of 17Effective Date: October 1, 2007To ensure that all Reliability Coordinators clearly understand potential and actual action
		experiencing conditions where all available generation resources are committed to respect the IROL and/or is concerned about its ability to respect the IROL.2. Transmission Emergency Alert 2 (TEA 2) Load management procedures in effect to respect IROLs.Circumstances: The Reliability Coordinator or Transmission Operator foresees or has implemented procedures up to, but excluding, interruption of firm load commitments. When time permits, these procedures may include, but are not limited to:?Public

Organization	Yes or No	Question 6 Comment
		appeals to reduce demand.?Voltage reduction. Interruption of non-firm end use loads in accordance with applicable contracts (for emergency purposes, not economic reasons) Demand-side management.Utility load conservation measures?TLR 6Note: TLR 5 would normally be implemented in advance of this alert state. Under some circumstances TLRs may not be available or effective and would not be called prior to this alert state. During TEA 2, Reliability Coordinators and Transmission Operators have the following responsibilities:2.1 Declaration period. The declaring Reliability Coordinator shall update the RCIS under System Emergency at a minimum of every hour until the TEA 2 is terminated 2.2 Evaluating and mitigating transmission limitations. The Reliability Coordinators shall review all System Operating Limits (SOLs) and Interconnection Reliability Operating Limits (IROLs) and transmission loading relief procedures in effect that may be contributing to the alert level. Where appropriate, the Reliability Coordinators shall inform the Transmission OperatorsStandard TOP-004-3 Transmission OperationsAdopted by Board of Trustees: November 1, 2006 Page 7 of 17Effective Date: October 1, 2007 under their purview of the pending Transmission Emergency Alert and request that they increase their ATC by actions such as restoring transmission elements that are out of service, reconfiguring their transmission system, adjusting phase angle regulator tap positions, implementing emergency operating procedures and redispatching generation. The following additional actions should also be considered where appropriate: Notification of ATC adjustments. Resulting increases in ATCs shall be communicated to the declaring Reliability Coordinators shall events on the ability to supply emergency assistance to the declaring entity. This evaluation shall include analysis of system reliability and involve close communication among Reliability Coordinators. Initiating inquiries on re-valuating SOLs or IRCLs.2.3 Coordinator develoes communication amon

Organization	Yes or No	Question 6 Comment
		Transmission Emergency Alert 3 (TEA 3) ? Firm load curtailment in effect to respect IROLs.Circumstances:The Reliability Coordinator or Transmission Operator foresees or has implemented firm load obligation interruption to respect an IROL.3.1 Continue actions from TEA 2. The Reliability Coordinators and the declaring entity shall continue to take all actions initiated during TEA 2.3.2 Declaration Period. The declaring Reliability Coordinator shall update the RCIS under ?System Emergency? at a minimum of every hour until the TEA 3 is terminated.3.3 Use of Transmission short-time limits. The Reliability Coordinators shall request the appropriate Transmission Providers within their Reliability Area to utilize available short-time transmission limits or other emergency poreating procedures in order to increase transfer capabilities.3.4 Re-evaluating and revising SOLs and IROLs. The Reliability Coordinator of the declaring entity shall evaluate the risks of revising SOLs and IROLs on the reliability Coordinators and only with the agreement of the Transmission Operator whose equipment would be affected. The resulting increases in transfer capabilities shall only be made available to the declaring entity who has requested an TEA 3 condition. SOLs and IROLs shall only be revised as long as a TEA 3 condition exists or as allowed by the Transmission Operator whose equipment is at risk. The following are minimum requirements that must be met before SOLs or IROLs are revised:3.4.2 Mitigation of cascading failures. The Reliability Coordinator shall use its best efforts besure that revising SOLs or IROLs would not result in any cascading failures within the Interconnection.3.5 Returning to pre- emergency SOLs and IROLs. Whenever the transmission systems can be returned to their pre-emergency SOLs or IROLs, the declaring Entity shall notify its respective Reliability Coordinator shall notify via the RCIS the affected Reliability Coordinators, Transmission Operators and Balancing Authorities that their systems

Organization	Yes or No	Question 6 Comment
		Interface). Flows from (direction of flow that impacts the interface) aggravate this interface. (amount of MW relief) of Firm Load curtailments have been (or is expected) implemented to respect the limit. These actions are expected to last the next (length of time ? hours/days). Contingency Examplelf the TEA is being declared as a result of a contingency the message could be modified simply by adding the contingency description as below: (name of RC) is declaring a TEA 2 on the (name of the interface). This is a result of a contingency on (name of the interface or contingent element). Flows from (direction of flow that impacts the interface) aggravate this interface. (amount of MW relief) of (type of load management procedures that have beenStandard TOP-004-3 ? Transmission OperationsAdopted by Board of Trustees: November 1, 2006 Page 10 of 17Effective Date: October 1, 2007 are expected to be implemented i.e. voltage reduction, curtailable load reductions) to respect the limit. These actions are expected to last the next (length of time ? hours/days) and should be sufficient to prevent the need for Firm load shedding. Updates/When updating postings conly significant changes need be identified. The following is appropriate: (name of RC) remains in a TEA (2 or 3) on the (name of the interface). (amount of MW relief) of (type of load management procedures that have been or are expected to be implemented i.e. voltage reduction, curtailable load reductions, firm load reductions) have been implemented (description of the change i.e. increased/reduce by amount of MW change or identify no change). Standard TOP-004-3 ? Transmission OperationsExample #11ROL violation on X No Global Adequacy ConcernsIROL ?X?500 MW - A to 8300 MW - B to Altertie Limit Intertie Limit Mm 300 Imp 200Exp 200 Exp 100EEA1 No2 No3 NoTEA1 Yes2 Yes3 YesIn this example the available generation in A is in excess of its load requirements. The available generation in B is less than its load requirements. Area B will be relying on the full transfer capa
	l	load requirements. There is a Global Adequacy deficiency after considering full import capability and

Organization	Yes or No	Question 6 Comment
		utilization of interruptible load and V/R.BA Total Load 2,500 MWBA Total Gen 1,800 MWJcoad AZone BLoad 1,500 MWLcoad 1,000 MWGen available 900 MWGen available 900 MWImp 300 MWImp 200 MWExp 0 MWExp 0 MWInterruptible 100 MWLcoadInterruptible 50 MWLcoad//R 50 MWV/R 50 MWBalancing Authority X Adopted by Board of Trustees: November 1, 2006 Page 13 of 17Effective Date: October 1, 2007Standard TOP-004-3 Transmission OperationsAdopted by Board of Trustees: November 1, 2006 Page 14 of 17Effective Date: October 1, 2007?EEA procedures should be followed?There is no need for a TEA to be issuedStandard TOP-004-3 ? Transmission OperationsExample #3Global Adeguacy DeficiencyIROL ViolationIROL ?X?500 MW - A to B300 MW - B to AIntertie Limit Intertie LimitImp 300 Imp 200Exp 200 Exp 100EEA1 Yes2 Yes3 NoTEA1 Yes2 Yes3 YesIn this example the available generation in A meets its load requirements. The available generation in B is less than its load requirements. There is a Global Adeguacy deficiency after considering full import capability. There is also an IROL violation at X in the direction of A to B to meet the load requirements in B depending on where load management procedures are implemented.Adopted by Board of Trustees: November 1, 2006 Page 15 of 17Effective Date: October 1, 2007?An EEA 1 and a TEA 1 should be issued to identify the potential issuesBA Total Load 2,500 MWBA Total Gen 1,700 MWBAImpLimit500MWABLoad 1,500 MWLxp 0 MWIceruptible 100 MWLoadInterruptible 50 MWLoadV/R 50 MWV/R 50 MWBalancing Authority X Standard TOP-004-3 ? Transmission OperationsAdopted by Board of Trustees: November 1, 2006 Page 16 of 17Effective Date: October 1, 2007 When load management procedures are implemented to manage the transfer from A to B a TEA 2 should be issued (assumes B will be deficient before the global deficiency corcers). ?An EEA 2 should be issued when load management procedures are being implemented to an ange the transfer form A to B a TEA 2 should be issued (assumes B will be deficient before the global deficiency concers).

Response: As per the wording of the attached document: "may be initiated only by a Reliability Coordinator' this certainly seems to say that this requirement

Organization	Yes or No	Question 6 Comment		
belongs in the IRO family of standards as opposed to the TOP family of standards. This request should be forwarded to Project 2006-06.				
SERC OC Standards Review Group	Yes	TOP-001 R2 - The phrase "shall coordinate its respective operations known or expected to have a reliability impact on other reliability entities" could cause compliance issues due to the resulting subjectivity of the identification of other reliability entities. We recommend that it replaced with "shall coordinate its respective operations known or expected to have a reliability impact on adjacent reliability entities". It should be the responsibility of the adjacent reliability entity to further coordinate, if necessary, other appropriate reliability entities.		
		The Measures and VSLs would need to be modified accordingly.		
		Top-001, Requirement 4 - we suggest changing other reliability entities to adjacent reliability entities.		
		TOP-002 R2 uses the word "plan" as a verb, and then it is referenced in R3 as a noun. This is propagated in the Measures and VSLs. We suggest the following wording change in R2: The Transmission Operator shall have a coordinated plan		
		? TOP-003 R1.2 We disagree with this requirement and we recommend that it be struck. The TOP and the BA must be able to specify formats that can be utilized by their processes to ensure reliability.		
	Response: The word 'coordinate' is not used in TOP-001-2, Requirement R2 but upon review the SDT has modified the wording to address your concern about affected Transmission Operators.			
	TOP-001-2, R2. Each Transmission Operator shall inform its Reliability Coordinator and other Transmission Operators known or expected to be affected of actual Emergency and anticipated Emergency conditions.			
If there are known 3 rd party impacts, it only makes sense that all entities need to be informed. 'Other' provides that flexibility and includes adjacent.				
The SDT sees no reason to change the wording in TOP-002-3, Requirements R2 & R3. Plan can be both a noun and a verb and the usage here is self- explanatory.				
The SDT believes that R1.2 is a reasonable attempt to solve the problem where there are 2 different system involved. Deleting the requirement doesn't solve the problem. No change made.				
Dominion Resources Inc.	Yes	TOP-001 uses the term reliability entities in the purpose statement while TOP-003 uses the term functional responsibilities. The Functional Model uses the term Responsible Entities. We suggest that NERC and the SDT make every effort to use consistent terms.		
		We continue to have concerns with the current standards review/approval process. Having to make comments on new draft standards that are predicted upon other draft standards that have not been approved is a non-productive process. As stated in the implementation plan ?Changes made in this project		

Organization	Yes or No	Question 6 Comment
		to TOP-005-1, R1; TOP-007-0, R4 are dependent on corresponding changes being approved in Project 2006-06 Reliability Coordination: COM-001-1: Telecommunications? COM-002-2: Communications and Coordination? IRO-001-1: Reliability Coordination Responsibilities and Authorities? IRO-002-1: Reliability Coordination Facilities? IRO-014-1: Procedures to Support Coordination between Reliability Coordinators? IRO-015-1: Notifications and Information Exchange between Reliability Coordinators? IRO-016-1: Coordination of Real-Time Activities between Reliability Coordinators? PER-004-1: Reliability Coordination Staffing? PRC-001-1: System Protection Coordination?

Response: The SDT has reviewed the wording indicated and sees no reason for confusion or concern and has not made any changes to these statements.

The Standards Committee and NERC staff has the responsibility for coordinating multiple standards and deciding what can be posted concurrently. The SDT has no control over this.

Yes	See response to question number 5 which is ?After the review of the paragraph 1612 of the FERC final order 693, the MRO NSRS would like them to be more specific about the type of outages and consistent with the Reliability Coordinator's requirement; the Reliability Coordinator has a wide-area view. How would this country-wide advance notice improve reliability for two independent systems not physically interconnected?
	In TOP-001-1 R1, what is a reliability directive? Should this be defined? The NERC standard COM-002- 2 talks about the RC issuing a reliability directive, what is a directive? Not every communication is a directive; please clarify what is a reliability directive. Should each directive start off by stating that it's a directive and that 3 way communication should be used? (In the MISO Business Practice RTO-OP-002 R7, Telephone Communications Protocol, section 3.2.1, when issuing a Reliability Directive the following must be stated: This is a Reliability Directive and I will need you to repeat it back.) Other MISO Business Practices which discuss reliability directives are RTO-BPM-006-R2 and RTO-EOP-003-R8.
	The current standard TOP-002-2a includes an interpretation of R11 stating among other things that a unique study is not needed for each operating day. The MRO NSRS recommends revising the TOP-002-3 R1 to include this interpretation.
	For the TOP-003-1 R1, Each Transmission Operator and Balancing Authority shall have a documented specification for data to support its Real-time monitoring and reliability assessments required to fulfill their respective responsibilities per the NERC Functional Model., the MRO NSRS believes that this phrase NERC Functional Model should be removed since it is unclear as it reads now and it should be replaced with R1.1, R1.2, and R1.3.
	Yes

Organization	Yes or No	Question 6 Comment
The Reliability Coordination SDT	is proposing the follow	ing as a definition of reliability directive.
Reliability Directive: A connecessary to address an a		by a Reliability Coordinator, Transmission Operator, or Balancing Authority where action by the recipient is rgency,
		a must have a power flow study for each day. The measure states that you COULD have a power flow study s that this is clear and no change is necessary.
The SDT agrees and has modified	ed the requirement acco	ordingly.
TOP-003-1, R1 . Each Tra reliability assessments. T		d Balancing Authority shall have a documented specification for data necessary for Real-time monitoring and clude:
FMPA and its All Requirements Project Participants, as follows: Kissimmee Utility Authority, City of Vero Beach, Lakeland	Yes	We generally support the revised standards, but did have a few additional comments:? The data retention is significantly longer than earlier standards, e.g., three years rather than 3 months, and the data retention is not consistent between standards, e.g., TOP-001-2 is one year, TOP-002-3 is six months, TOP-003-1 and TOP-004-3. What is your reasoning behind these changes and the inconsistencies between them? Also, saving daily operating data for three years seems a long time.
Electric, Florida Municipal Power Pool		TOP-002-3 R1 probably ought to refer to TOP-003-1 as one of the sources of data for the assessments.
r ower r oor		Do the standards require current day plans? TOP-002-3 and IRO-004-1 only covers next day. Are we making current day equivalent to real-time, and therefore not requiring a plan for the current day??
		TOP-002-3 R1 assigns the same task to the TOP that the RC has in IRO 004 1 R1, although not as confusing as real-time operations with two entities responsible for the same thing, as discussed above in the comments to TOP-001-2, this also has potential for confusion of roles, responsibilities and actions. Should only one entity be responsible for next day plans, e.g., the RC? Or is the distinction that RCs study interfaces, whereas the TOPs assess its entire system? If so, should such a distinction exist?
Response: The SDT has chang	ed the data retention fo	r TOP-003-1, Requirements 2, 3, and 5 to 90 days.
The SDT finds no reliability reaso	on to specify the data se	ources employed in TOP-002-3. That seems more like a 'how' as opposed to a 'what'. No change made.
The next day plan referenced he	re becomes the basis c	of the current day plan today. No change made.
The Transmission Operator is re	sponsible for its area a	nd the Reliability Coordinator is responsible for theirs. The SDT sees no conflict here. No change made.
Colmac Clarion	Yes	During 'blackout' that resulted in this program, GOP's received more intial information on problem and expected recovery from CNN then from 'chain of command'. If response is expected inclusion in information stream must also be included.

Organization	Yes or No	Question 6 Comment
Response: The SDT can not respond unless specific references and suggestions are provided.		
Xcel Energy	Yes	In general, we appreciate the drafting team's work and feel the drafted standards are a positive move towards more simplified requirements. However, we do have some concerns, detailed below.
		TOP-001>We feel the new R3 should also be applicable to BAs & GOs.
		>R4 - The phrase reliability entities needs definition. It is not clear who is being referenced.
		>R6 consider adding language to include SOLs.
		TOP-002>R1- We assume that the use of the defined term ?Contingency? implies N-1 contingency planning. Yet, it is not clearly stated as such and therefore open to some interpretation. We recommend adding language to clarify, similar to the current version.
		>R2 What is the intent here? Please clarify if planning is intended to entirely prevent the exceedence of an IROL, or to not exceed an IROL Tv.
		>R3 - The phrase reliability entities needs definition. It is not clear who is being referenced.
		>Deletion of the current R3 raises a concern as to what now requires LSEs and GOPs to coordinate their planning. This can present problems with TOPs and BAs attempting to collect needed data.
		>Deletion of current R8 where is this covered elsewhere?
		TOP-003>R1.1 long term needs more definition; we recommend changing to operating horizon
		>R1.1 We do not believe it was the drafting teams intent to require outage reports of all BES components (breakers, etc), nor do we feel that is reasonable. We recommend the addition of a clarifying statement such as: BES components specified by the Transmission Operator and Balancing Authority.
		>R5 uses the phrase immediate responsibility suggest changing this to responsible for real time operations.
		>It is not yet clear where the current R2 and R3 are being moved to. The previous draft indicated they would be moved to IRO standards. Please provide the link to those drafts or the project they are being worked under.

Response: TOP-001-2, R3: The obligation is on the Transmission Operator to coordinate emergency assistance and is not a task for the Balancing Authority or Generator Operator. No change made.

R4: Reliability entities are the entities certified by NERC as such. No change made.

Organization	Yes or No	Question 6 Comment
R6: The industry is indicating ap	proval of having this re-	quirement limited to IROL and IROL T_v . No change made.
TOP-002-3, R1: The SDT has m	odified the wording to a	address this concern.
		tor shall have an assessment for the next day's operation that indicates whether it will exceed any of its ticipated normal conditions and potential single Contingency events.
R2: The statement is to plan to a	void exceedances of a	n IROL with no timing element involved. No change made.
R3: Reliability entities are the en	tities certified by NERC	Cas such. No change made.
R3: TOP-003-1 covers the data	requirements. No char	nge made.
R8: The SDT assumes you mea anything. No change made.	n the current approved	standard as opposed to what was posted. This was deleted because Balancing Authorities can't deliver
TOP-003-1, R1.1: Long term is '	defined' by the use of t	he Operations Planning Time Horizon which is limited to one year.
R1.1: The SDT agrees and has	changed the requireme	ent accordingly.
TOP-003-1, R1.1, b	ullet #1: Long term out	ages of Bulk Electric System equipment, as specified by the Transmission Operator or Balancing Authority,
R5: The SDT has deleted that te	rminology.	
		tor and Balancing Authority shall provide to other Transmission Operators and Balancing Authorities , the n Operators and Balancing Authorities necessary for Real-time monitoring and reliability assessments.
R2: This is being covered in Proj	ect 2006-06.	
Ameren	Yes	The team has done a significant amount of work in getting these standards cleaned up. There was too much duplication and uncertainty.
PJM's NERC and Regional Coordination Department	Yes	
PacifiCorp	Yes	
WECC	Yes	
NextEra Energy Resources, LLC	Yes	

Organization	Yes or No	Question 6 Comment
American Electric Power	Yes	
E.ON U.S.	Yes	
Con Edison System Ops		No single concern. Each revision should be analyzed on its own merits.
Manitoba Hydro	Yes	
Entergy Services	Yes	
Puget Sound Energy	Yes	
Response: Thank you for your response.		