Comment Report

Project Name: 2015-09 Establish and Communicate System Operating Limits | FAC-011-4, FAC-014-3, FAC-015-1,

Implementation Plan, System Voltage Limit

Comment Period Start Date: 9/29/2017
Comment Period End Date: 11/14/2017

Associated Ballots: 2015-09 Establish and Communicate System Operating Limits FAC-011-4 IN 1 ST

2015-09 Establish and Communicate System Operating Limits FAC-014-3 IN 1 ST 2015-09 Establish and Communicate System Operating Limits FAC-015-1 IN 1 ST

2015-09 Establish and Communicate System Operating Limits Implementation Plan IN 1 OT

2015-09 Establish and Communicate System Operating Limits System Voltage Limit | New Definition IN 1 DEF

There were 56 sets of responses, including comments from approximately 166 different people from approximately 106 companies representing 10 of the Industry Segments as shown in the table on the following pages.

Questions

- 1. The SDT is recommending retirement of FAC-010-3 and has provided justification in the "FAC-010/FAC-015 Rationale" and "FAC-010-3 Mapping Document." Do you agree that the proposed retirement of FAC-010-3 does not create a reliability gap? Please provide supporting rationale.
- 2. Given the background discussion and the justification provided in the mapping document for FAC-011-3, Requirement R2, R2.1 and R2.2, do you agree that BES performance is adequately covered and that no reliability gaps are introduced from the removal of those concepts in a revised FAC-011-4? If not, please explain specifically what aspects of the removal you disagree with and propose alternative language.
- 3. Given the background discussion and the justification provided in the mapping document for FAC-011-3, Requirement R2, R2.3 and R2.4, do you agree that BES performance is adequately covered and that no reliability gaps are introduced from the removal of those concepts in a revised FAC-011-4? If not, please explain specifically what aspects of the removal you disagree with and propose alternative language.
- 4. Are there any reliability objectives of FAC-011-3, Requirement R2, R2.3 and R2.4 that you maintain need to be preserved in requirements relating to the development of Operating Plans which would reside outside the FAC family of standards? Please explain your response.
- 5. Do you agree that the SDT should allow the use of UVLS in the establishment of stability limits? If not, please explain and provide alternative language.
- 6. If you have any other comments that you haven't already provided in response to questions 2-5, please provide them here.
- 7. The SDT is proposing to divide existing Requirement R1 of FAC-014-2 into three requirements in FAC-014-3 to clearly indicate which entities have the responsibility for establishing Interconnection Reliability Operating Limits (IROLs) [the RC], System Operating Limits (SOLs) [the TOP] and stability limits that impact more than one TOP in its Reliability Coordinator Area [the RC] into proposed Requirements R1, R2, and R4, respectively. Do you agree with the proposed changes? If not, please explain.
- 8. Existing FAC-014-2, Requirement R5, R5.2 requires the Transmission Operator (TOP) to provide its SOLs to its Reliability Coordinator (RC) and Transmission Service Providers (TSPs) that share its portion of the RC Area. The SDT is proposing in Requirement R3 of FAC-014-3 to exclude the TSPs from that communication chain. Other requirements in existing standards (MOD-028-2, Requirement R7, MOD-029-2a, Requirement R4, and MOD-030-3, Requirement R2.6) require the TOP to provide the Total Transfer Capabilities (TTCs), Total Flowgate Capabilities (TFCs), along with supporting information and assumptions to TSPs. Because the TTCs and TFCs already reflect the impact(s) of any SOLs, the SDT deemed retention of the existing language unnecessary. Do you agree with the proposed change? If not, please explain.
- 9. The SDT relocated the reliability objectives of existing Requirement R6 of FAC-014-2 into Requirement R6 of proposed Reliability Standard FAC-015-1 such that all Planning Coordinator and Transmission Planner responsibilities will be housed within one standard. Do you agree with the proposed change? If not, please explain.
- 10. If you have any other comments that you haven't already provided in response to questions 7-9, please provide them here.

- 11. FAC-015-1 is predicated on the principle that Facility Ratings, System steady-state voltage limits, and stability criteria used in Planning Assessments for the Near-Term Transmission Planning Horizon should be more conservative/restrictive/limiting than those found in (or established in accordance with) the RC's SOL Methodology, allowing for justified exceptions. Do you agree with this principle? If not, please explain.
- 12. Do you agree that coordination of Facility Ratings, System steady state voltage limits, and stability performance criteria as required in Requirements R1-R3 should be limited to Planning Assessments of the Near-Term Transmission Planning Horizon? If yes, please provide supporting rationale; if no, please explain and provide alternative language.
- 13. In Requirements R1 R3, the SDT is proposing to allow a PC to provide a technical justification to its RC for using less limiting Facility Ratings, System steady-state voltage limits, and stability performance criteria than those specified in its RC's SOL Methodology. Do you agree that this provides adequate flexibility (in the rare circumstances when less limiting Facility Ratings, System steady-state voltage limits, and stability performance criteria must be utilized; e.g., up-rating a line in a future project) without compromising reliability? If yes, please provide supporting rationale; if no, please explain and provide alternative language.
- 14. Do you agree that the information identified in Requirement R6 is necessary for each impacted RC and TOP to properly evaluate instability, Cascading, or uncontrolled separation identified in planning assessments for use in establishing stability limits and IROLs in the operations horizon? If not, please explain and provide alternative language.
- 15. Do you agree that the Planning Assessment of the Near-Term Transmission Planning Horizon and the Transfer Capability assessment, as stipulated in Requirement R6, are the appropriate assessments for identifying any instability, Cascading, or uncontrolled separation in the planning horizon? If yes, please provide supporting rationale; if no, please explain and provide alternative language.
- 16. If you have any other comments that you haven't already provided in response to questions 11-15, please provide them here.
- 17. Do you agree with the proposed definition of System Voltage Limit? If not, please explain and provide alternative language.
- 18. Do you agree with the Implementation Plan? If not, please provide the basis for your disagreement and an alternate proposal.
- 19. The SDT asserts the combination of proposed FAC-011-4, FAC-014-3, and FAC-015-1 provide entities with flexibility to meet the reliability objectives in the project Standards Authorization Request (SAR) in a cost effective manner. Do you agree? If you do not agree, or if you agree but have suggestions for improvement to enable additional cost effective approaches to meet the reliability objectives, please provide your recommendation and, if appropriate, technical justification.

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
Brandon McCormick	Brandon McCormick		FRCC	FMPA	Tim Beyrle	City of New Smyrna Beach Utilities Commission	4	FRCC
					Jim Howard	Lakeland Electric	5	FRCC
					Lynne Mila	City of Clewiston	4	FRCC
					Javier Cisneros	Fort Pierce Utilities Authority	3	FRCC
					Randy Hahn	Ocala Utility Services	3	FRCC
				Don Cuevas	Beaches Energy Services	1	FRCC	
					Jeffrey Partington	Keys Energy Services	4	FRCC
					Tom Reedy	Florida Municipal Power Pool	6	FRCC
					Steven Lancaster	Beaches Energy Services	3	FRCC
					Mike Blough	Kissimmee Utility Authority	5	FRCC
					Chris Adkins	City of Leesburg	3	FRCC
					Ginny Beigel	City of Vero Beach	3	FRCC
	Brian Van Gheem		NA - Not Applicable	pplicable Standards Collaborators	Greg Froehling	Rayburn Country Electric Cooperative, Inc.	3	SPP RE
					Bob Solomon	Hoosier Energy Rural Electric Cooperative, Inc.	1	RF

					Shari Heino	Brazos Electric Power Cooperative, Inc.	1,5	Texas RE
					Ginger Mercier	Prairie Power, Inc.	1,3	SERC
					Lucia Beal	Southern Maryland Electric Cooperative	3	RF
					Mike Brytowski	Great River Energy	1,3,5,6	MRO
					John Shaver	Arizona Electric Power Cooperative, Inc.	1	WECC
					Bill Hutchison	Southern Illinois Power Cooperative	1	SERC
					Kevin Lyons	Central Iowa Power Cooperative	1	MRO
Duke Energy	Colby Bellville	1,3,5,6	FRCC,RF,SERC	Duke Energy	Doug Hils	Duke Energy	1	RF
					Lee Schuster	Duke Energy	3	FRCC
					Dale Goodwine	Duke Energy	5	SERC
					Greg Cecil	Duke Energy	6	RF
Midwest Reliability	Cynthia Kneisl	1,2,3,4,5,6	MRO	MRO NSRF	Joseph DePoorter	Madison Gas & Electric	3,4,5,6	MRO
Organization					Larry Heckert	Alliant Energy	4	MRO
					Amy Casucelli	Xcel Energy	1,3,5,6	MRO
					Michael Brytowski	Great River Energy	1,3,5,6	MRO
					Jodi Jensen	Western Area Power Administration	1,6	MRO
					Kayleigh Wilkerson	Lincoln Electric System	5	MRO
					Kayleigh Wilkerson	Lincoln Electric System	1,3,5,6	MRO
					Mahmood Safi	Omaha Public Power District	1,3,5,6	MRO

					Brad Parret	Minnesota Power	1,5	MRO
					Terry Harbour	MidAmerican Energy Corporation	1,3	MRO
					Tom Breene	Wisconsin Public Service	3,4,5	MRO
					Jeremy Voll	Basin Electric Power Cooperative	1	MRO
					Kevin Lyons	Central Iowa Power Cooperative	1	MRO
					MIke Morrow	Midcontinent Independent System Operator	2	MRO
Tennessee Valley Authority	Valley Chastain	SERC	Tennessee Valley Authority	DeWayne Scott	Tennessee Valley Authority	1	SERC	
					lan Grant	Tennessee Valley Authority	3	SERC
					Brandy Spraker	Tennessee Valley Authority	5	SERC
					Marjorie Parsons	Tennessee Valley Authority	6	SERC
Seattle City Light	Ginette Lacasse	1,3,4,5,6	WECC	Seattle City Light Ballot	Pawel Krupa	Seattle City Light	1	WECC
				Body	Hao Li	Seattle City Light	4	WECC
					Bud (Charles) Freeman	Seattle City Light	6	WECC
					Mike Haynes	Seattle City Light	5	WECC
				Michael Watkins	Seattle City Light	1,4	WECC	
				Faz Kasraie	Seattle City Light	5	WECC	
					John Clark	Seattle City Light	6	WECC
					Tuan Tran	Seattle City Light	3	WECC

				Laurrie Hammack	Seattle City Light	3	WECC
Public Utility District No. 1 of Chelan County	Janis Weddle	6	Chelan PUD	Haley Sousa	Public Utility District No. 1 of Chelan County	5	WECC
				Joyce Gundry	Public Utility District No. 1 of Chelan County	3	WECC
				Jeff Kimbell	Public Utility District No. 1 of Chelan County	1	WECC
				Janis Weddle	Public Utility District No. 1 of Chelan County	6	WECC
Associated Electric Cooperative, Inc.	Mark Riley	1	AECI & Member G&Ts	Mark Riley	Associated Electric Cooperative, Inc.	1	SERC
				Brian Ackermann	Associated Electric Cooperative, Inc.	6	SERC
				Brad Haralson	Associated Electric Cooperative, Inc.	5	SERC
				Todd Bennett	Associated Electric Cooperative, Inc.	3	SERC
				Michael Bax	Central Electric Power Cooperative (Missouri)	1	SERC
				Adam Weber	Central Electric Power Cooperative (Missouri)	3	SERC
				Ted Hilmes	KAMO Electric Cooperative	3	SERC
				Walter Kenyon	KAMO Electric Cooperative	1	SERC
				Stephen Pogue	M and A	3	SERC

						Electric Power Cooperative		
					William Price	M and A Electric Power Cooperative	1	SERC
					Mark Ramsey	N.W. Electric Power Cooperative, Inc.	1	SERC
					Kevin White	Northeast Missouri Electric Power Cooperative	1	SERC
					Skyler Wiegmann	Northeast Missouri Electric Power Cooperative	3	SERC
					John Stickley	NW Electric Power Cooperative, Inc.	3	SERC
					Jeff Neas	Sho-Me Power Electric Cooperative	3	SERC
					Peter Dawson	Sho-Me Power Electric Cooperative	1	SERC
Manitoba Hydro	Mike Smith	1		Manitoba Hydro	Yuguang Xiao	Manitoba Hydro	5	MRO
					Karim Abdel-Hadi	Manitoba Hydro	3	MRO
					Blair Mukanik	Manitoba Hydro	6	MRO
					Mike Smith	Manitoba Hydro	1	MRO
Southern Company - Southern	Pamela Hunter	1,3,5,6	SERC	Southern Company	Katherine Prewitt	Southern Company Services, Inc.	1	SERC
Company Services, Inc.					Joel Dembowski	Southern Company - Alabama Power Company	3	SERC
					William D. Shultz	Southern Company Generation	5	SERC

					Jennifer G. Sykes	Southern Company Generation and Energy Marketing	6	SERC
Eversource Energy	Quintin Lee	1		Eversource Group	Timothy Reyher	Eversource Energy	5	NPCC
					Mark Kenny	Eversource Energy	3	NPCC
					Quintin Lee	Eversource Energy	1	NPCC
Northeast Power Coordinating Council	Power Coordinating	NPCC	RSC no Dominion NextERA Con-Ed	Guy V. Zito	Northeast Power Coordinating Council	10	NPCC	
					Randy MacDonald	New Brunswick Power	2	NPCC
				Wayne Sipperly	New York Power Authority	4	NPCC	
				Glen Smith	Entergy Services	4	NPCC	
					Brian Robinson	Utility Services	5	NPCC
				Bruce Metruck	New York Power Authority	6	NPCC	
				Alan Adamson	New York State Reliability Council	7	NPCC	
					Edward Bedder	Orange & Rockland Utilities	1	NPCC
					David Burke	Orange & Rockland Utilities	3	NPCC
					Michele Tondalo	UI	1	NPCC
					Laura Mcleod	NB Power	1	NPCC
				David Ramkalawan	Ontario Power Generation Inc.	5	NPCC	
					Quintin Lee	Eversource Energy	1	NPCC

					Paul Malozewski	Hydro One Networks, Inc.	3	NPCC
					Helen Lainis	IESO	2	NPCC
					Michael Schiavone	National Grid	1	NPCC
					Michael Jones	National Grid	3	NPCC
					Kathleen Goodman	ISO-NE	2	NPCC
					Greg Campoli	NYISO	2	NPCC
					Sylvain Clermont	Hydro Quebec	1	NPCC
					Chantal Mazza	Hydro Quebec	2	NPCC
Scott Miller	Scott Miller	tt Miller Si	SERC	MEAG Power	Roger Brand	MEAG Power	3	SERC
					David Weekley	MEAG Power	1	SERC
					Steven Grego	MEAG Power	5	SERC
Southwest Power Pool, Inc. (RTO)	Shannon Mickens		SPP RE	SPP Standards Review Group	Shannon Mickens	Southwest Power Pool Inc.	2	SPP RE
					j.Scott Williams	City Utilities of Springfield, MO	1,4	SPP RE
					Deborah McEndaffer	Midwest Energy, Inc	NA - Not Applicable	SPP RE
					Robert Gray	Board of Public Utilities (BPU), Kansas, City	NA - Not Applicable	SPP RE
					Steve McGie	Board of Public Utilities (BPU), Kansas, City	NA - Not Applicable	SPP RE
				Robert Hirchak	Cleco Corporation	6	SPP RE	

1. The SDT is recommending retirement of FAC-010-3 and has provided justification in the "FAC-010/FAC-015 Rationale" and "FAC-010-3 Mapping Document." Do you agree that the proposed retirement of FAC-010-3 does not create a reliability gap? Please provide supporting rationale.						
Richard Vine - California ISO - 2	Richard Vine - California ISO - 2					
Answer	No					
Document Name						
Comment						
WECC system to that provide for a more re With the exception of this Question and Qu	.g. common corridor 500 kV outages, no cascading for loss of two PV units) that the California ISO plans the silient system. estion 15, the California ISO supports the comments of the ISO/RTO Council Standards Review Committee. numerous additional comments in the sections below related to the new proposed FAC-015-1 standard.					
Likes 0						
Dislikes 0						
Response						
Robert Blackney - Edison Electric Institu	ite - 1,3,5,6 - WECC					
Answer	Yes					
Document Name						
Comment						
reliability components of FAC-010-3. The r	new TPL-001-4 ensures the reliable planning of the transmission system and addresses each of the mapping document adequately and exhaustively demonstrates where the components of FAC-010 are ger relevant under the new SOL/IROL construct.					
Likes 0						
Dislikes 0						
Response						
Aaron Cavanaugh - Bonneville Power Ad	dministration - 1,3,5,6 - WECC					
Answer	Yes					
Document Name						
Comment						

BPA agrees with the SDT's rationale.	
Likes 0	
Dislikes 0	
Response	
Ginette Lacasse - Seattle City Light - 1,3	,4,5,6 - WECC, Group Name Seattle City Light Ballot Body
Answer	Yes
Document Name	
Comment	
requirements discussed in the FAC-015 (wisection) adequately define what ratings/limitation. Note: While we agree with the retirement of	a planning SOL methodology. The TPL requirements along with changes to FAC-011, FAC-014 and the new hich I think should be covered in the TPL standard, but my comments on that are covered in the FAC-015 its should be used to plan the system. of FAC-010, we will be voting "No" because of our problems with FAC-015. These changes to FAC-010, ntegrated whole, so approving the changes to some standards and not others could create a reliability gap.
Likes 0	
Dislikes 0	
Response	
Wendy Center - U.S. Bureau of Reclamate	tion - 5
Answer	Yes
Document Name	
Comment	
Reclamation supports retiring FAC-010-3 b	ecause the requirements are adequately addressed in other NERC Standards.
Likes 0	
Dislikes 0	
Response	
Mike Smith - Manitoba Hydro - 1, Group	Name Manitoba Hydro
Answer	Yes
Document Name	

Comment	
FAC-010 has always had minimal reliability the FAC-010-3 is completely redundant with	value as it was restating what was already occurring as part of the TPL standards. Manitoba Hydro agrees h TPL-001-4.
Likes 0	
Dislikes 0	
Response	
Faz Kasraie - Faz Kasraie On Behalf of: I	Mike Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie
Answer	Yes
Document Name	
Comment	
requirements discussed in the FAC-015 (what section) adequately define what ratings/limit Note: While we agree with the retirement of	a planning SOL methodology. The TPL requirements along with changes to FAC-011, FAC-014 and the new hich I think should be covered in the TPL standard, but my comments on that are covered in the FAC-015 its should be used to plan the system. of FAC-010, we will be voting "No" because of our problems with FAC-015. These changes to FAC-010, ntegrated whole, so approving the changes to some standards and not others could create a reliability gap.
Likes 0	
Dislikes 0	
Response	
Тосронос	
Neil Swearingen - Salt River Project - 1,3	8.5.6 - WECC
Answer	Yes
Document Name	
Comment	
	as part of this project. However SRP will be voting Negative on the ballot due to recommended changes with
Likes 0	
Dislikes 0	
Response	in the control of the
Scott Downey - Peak Reliability - 1	

Answer	Yes					
Document Name						
Comment	Comment					
mapping document. As is pointed out in the	O does not create a reliability gap. The SDT did a thorough job in their assessment of FAC-010 in the supporting documentation, there is an abundance of redundancies between FAC-010 (and the associated Peak supports the retirement of FAC-010 and the addition of FAC-015 as described in the supporting					
Likes 0						
Dislikes 0						
Response						
Shivaz Chopra - New York Power Author	ity - 1,3,5,6					
Answer	Yes					
Document Name						
Comment						
Supporting NPCC comments						
Likes 0						
Dislikes 0						
Response						
Bridget Silvia - Sempra - San Diego Gas	and Electric - 3					
Answer	Yes					
Document Name						
Comment						
Requirements in FAC-010-3 are covered by	/ TPL_001_4					
Likes 0						
Dislikes 0						
Response						
Daniel Grinkevich - Con Ed - Consolidate	ed Edison Co. of New York - 1					

Answer	Yes
Document Name	
Comment	
We support the ISO RTO Council Commen	ts.
Likes 0	
Dislikes 0	
Response	
Julie Hall - Entergy - 6	
Answer	Yes
Document Name	
Comment	
Entergy agrees with the mapping documen	t, the reliability impact is covered elsewhere.
Likes 0	
Dislikes 0	
Response	
Municipal Power Agency, 6, 4, 3, 5; Joe I	ick On Behalf of: Carol Chinn, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida McKinney, Florida Municipal Power Agency, 6, 4, 3, 5; Ken Simmons, Gainesville Regional Utilities, 1, 3; Richard Montgomery, Florida Municipal Power Agency, 6, 4, 3, 5; Tom Reedy, Florida Municipal roup Name FMPA
Answer	Yes
Document Name	
Comment	
The coordination between the Planning and SOLs/IROLs.	d Operations horizons can and should occur without the added confusion of having a separate set of planning
Likes 0	
Dislikes 0	
Response	
Janis Weddle - Public Utility District No.	1 of Chelan County - 6, Group Name Chelan PUD

Answer	Yes
Document Name	
Comment	
	unction of FAC-010-3 to be duplicative of those objectives also contained in the TPL-001-4 and to some nent of FAC-010-3 will not create a reliability gap.
Likes 0	
Dislikes 0	
Response	
David Jendras - Ameren - Ameren Servic	ses - 3
Answer	Yes
Document Name	
Comment	
	rizon in the Eastern Interconnection are generally the applicable steady-state ratings of the facilities, which re tested in a wide range of contingency analyses as required by standard TPL-001-4. Voltage limits are g criteria documents.
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed
Answer	Yes
Document Name	
Comment	
We strongly support the retirement of FAC-	010-3 and the SDT rationale.
Likes 0	
Dislikes 0	
Response	
Lauren Price - American Transmission C	ompany, LLC - 1 - MRO,RF

Answer	Yes
Document Name	
Comment	
ATC agrees with the retirement of FAC-010-3 due to the proposed revisions to FAC-011 and FAC-014 as well as the creation of a proposed FAC-015-standard. These proposals adequately address the necessary coordination between operations and planning.	
Likes 0	
Dislikes 0	
Response	
Steven Powell - Trans Bay Cable LLC - N	IA - Not Applicable - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Amy Casuscelli - Amy Casuscelli On Bel	half of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michelle Amarantos - APS - Arizona Pub	lic Service Co 1
Answer	Yes
Document Name	
Comment	

Likes 0		
Dislikes 0		
Response		
John Merrell - Tacoma Public Utilities (Ta	acoma, WA) - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kayleigh Wilkerson - Lincoln Electric Sys	stem - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Pamela Hunter - Southern Company - Southern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Michael Cruz-Montes - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Cynthia Kneisl - Midwest Reliability Orga	anization - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Donald Hargrove - OGE Energy - Oklaho	ma Gas and Electric Co 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Preston Walker - PJM Interconnection, L.L.C 2 - SERC,RF		
Answer	Yes	
Document Name		
Comment		

Likes 3	PSEG - PSEG Energy Resources and Trade LLC, 6, Barton Karla; PSEG - Public Service Electric and Gas Co., 3, Mueller Jeffrey; PSEG - Public Service Electric and Gas Co., 1, Smith Joseph
Dislikes 0	
Response	
Sing Tay - Sing Tay On Behalf of: Joh	n Rhea, OGE Energy - Oklahoma Gas and Electric Co., 3, 1, 6, 5; - Sing Tay
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Sarah Gasienica - NiSource - Northern	n Indiana Public Service Co 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Colby Bellville - Duke Energy - 1,3,5,6	- FRCC,SERC,RF, Group Name Duke Energy
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Quintin Lee - Eversource Energy - 1, Group Name Eversource Group		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Terri Pyle - OGE Energy - Oklahoma Gas	and Electric Co 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Dennis Chastain - Tennessee Valley Aut	hority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
	ool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group	
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
sean erickson - Western Area Power Adı	ministration - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Allie Gavin - Allie Gavin On Behalf of: Mi	ichael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gregory Campoli - New York Independer	nt System Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kevin Salsbury - Berkshire Hathaway - N	IV Energy - 5

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
James Grimshaw - CPS Energy - 3	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gladys DeLaO - CPS Energy - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Douglas Webb - Douglas Webb On Behalf of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; John Carlson, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb	
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Laurie Williams - PNM Resources - Publi	c Service Company of New Mexico - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Leonard Kula - Independent Electricity S	system Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Brian Van Gheem - ACES Power Marketi	ng - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michael Jones - National Grid USA - 1	

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Municipal Utility District, 4, 1, 5, 6, 3; Jan	of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento nie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of acramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1,
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Elizabeth Axson - Electric Reliability Cou	uncil of Texas, Inc 2
Answer	Yes
Document Name	2015-09_Unofficial_Comment_Form_092717_ERCOT_final.docx
Comment	
Likes 0	
Dislikes 0	
Response	
Scott Miller - Scott Miller On Behalf of: D 3, 5, 1; - Scott Miller, Group Name MEAG	avid Weekley, MEAG Power, 3, 5, 1; Roger Brand, MEAG Power, 3, 5, 1; Steven Grego, MEAG Power, Power
Answer	
Document Name	
Comment	

MEAG Power supports all Southern Company responses herein. Scott Miller	
Likes 0	
Dislikes 0	
Response	

2. Given the background discussion and the justification provided in the mapping document for FAC-011-3, Requirement R2, R2.1 and R2.2, do you agree that BES performance is adequately covered and that no reliability gaps are introduced from the removal of those concepts in a revised FAC-011-4? If not, please explain specifically what aspects of the removal you disagree with and propose alternative language.	
Leonard Kula - Independent Electricity S	ystem Operator - 2
Answer	No
Document Name	
Comment	
information above, SDT states that 'For exa	oltage Limits and Stability limits are confusing and can be easily misinterpreted. In the background imple, "BES performance" for Facility Ratings is determined through OPAs and RTAs which assess the flow cy states' As it can be seen Facility Ratings can be interpreted as Thermal ratings only. Facility Ratings ltage ratings of the equipment.
Likes 0	
Dislikes 0	
Response	
Janis Weddle - Public Utility District No.	1 of Chelan County - 6, Group Name Chelan PUD
Answer	No
Document Name	
Comment	
	FAC-011-3 paradigm, System Operating Limits (SOLs) are essentially the means used to limit the system so ceptable performance both pre-contingency and post-contingency. Although not a term used in FAC-011-3,

the concept of 'Reliable Operation' from the NERC Glossary of Terms is helpful in describing the objective:

Reliable Operation: "Operating the elements of the [Bulk-Power System] within equipment and electric system thermal, voltage, and stability limits..."

In the new, proposed FAC-011-4 paradigm, the focus is removed from SOLs as the tool to ensure secure system operations, and instead moves to assessing whether expected operating conditions are within acceptable performance pre- and post-contingency. If studies indicate otherwise, entities and the RC implement and utilize Operating Plans to keep the system within acceptable performance.

Conceptually, FAC-011-3 and FAC-011-4 are very similar. One uses SOLs to keep the system within acceptable performance; the other uses Operating Plans when unacceptable performance is identified. Therefore, the reliability objectives are maintained, although the terminology and approach has now changed.

In the description of the proposed FAC-011-4, SOLs now play a role similar to Facility Ratings, Voltage Criteria, and Stability Criteria; SOLs are now

part of the criteria to assess acceptable BES performance via OPAs and RTAs. Comment 1: CHPD would like to see an approach where the assessment of the system is started with Facility Ratings and performance criteria, and SOLs, if required, be used as an operational tool to support operating within those Facility Ratings and performance criteria, along with generation redispatch, topology re-configuration, etc. Comment 2: Regarding the contingencies transferred from FAC-011-3 to FAC-011-4 to align with the TPL contingencies, there are two discontinuities worth mentioning. In the old FAC-011-3, R2.2.2. listed "Loss of any generator, line, transformer, or shunt device without a Fault". The new FAC-011-4 description is now "...or without a Fault: generator; transmission circuit; transformer; shunt device; or single pole block, with Normal Clearing, in a monopolar or bipolar high voltage direct current system." In TPL-001-4, the analogous no-fault contingency is a category P2.1, and is described in TPL-001-4 Table 1 as "Opening of a line section w/o a fault". In summary, the new FAC-011-4 adds the single pole block to the list of no-fault outages. This probably has minor impact, but CHPD is unsure why it is being added. The second change, which is maintained, is of greater mention – there has been a discontinuity between the TPL requirements for no-fault (line section w/o a fault) and both the old and new FAC-011 standards (generator, line (old) / transmission circuit (new) transformer, shunt device (or single pole block). This could mean that these non-fault events aren't planned for through TPL, but are expected to be operated to through the FAC standard. CHPD requests this be examined by the Standard Drafting Team to see if a better alignment between TPL and FAC can be arranged. Additionally, the difference between the old FAC-011-3 'line' and the new FAC-011-4 'transmission circuit' could be clarified if these are intended to be the same thing, or if differences are intended (and if so, what are those differences). Likes 0 Dislikes 0 Response Terri Pyle - OGE Energy - Oklahoma Gas and Electric Co. - 1 No **Answer Document Name** Comment With regard to the proposed Requirement R2, OGE believes that the proposed language could be mistakenly interpreted as giving the Reliability Coordinator the discretion to impose unacceptable Facility Ratings to Transmission Operators. We would ask that the drafting team provides more clarity on the intent for this requirement.

Likes 0	
Dislikes 0	

Response

Pamela Hunter - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - SERC, Group Name Southern Company

No Answer

Document Name	
Comment	
should be assessed. We do not believe that	n of SOL Exceedance. In our proposed definition below, we excluded the criteria for which contingencies t the state of the system (pre or post contingency) should be included in the definition of SOL Exceedance, a believe that an RC's SOL methodology should define the conditions in which an SOL should not be
Southern's Proposed definition:	
SOL Exceedance - An operating condition,	as determined in Real -time Monitoring, when
exceedances. Predicted exceedances, suc Predicted exceedances should not be define Furthermore, how predicted exceedances a	in Real-time and therefore the SOL Exceedance definition should not incorporate the concept of predicted h as those identified through OPAs and RTAs, may or may not occur as they are just that, predicted. ed and subject to the stringent set of limitations and requirements that SOL Exceedances should be. re identified, assessed, operationally planned for and mitigated should be the responsibility of the Reliability for predicted exceedances should remain in the respective RC's SOL methodology.
Likes 0	
Dislikes 0	
Response	
Sing Tay - Sing Tay On Behalf of: John R	hea, OGE Energy - Oklahoma Gas and Electric Co., 3, 1, 6, 5; - Sing Tay
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Lauren Price - American Transmission C	ompany, LLC - 1 - MRO,RF
Answer	Yes
Document Name	
Comment	

The existing TOP standards adequately co	ver BES performance.
Likes 0	
Dislikes 0	
Response	
sean erickson - Western Area Power Adı	ninistration - 1
Answer	Yes
Document Name	
Comment	
The language in Requirement 2: "for Transi needs work. Suggested language: "for Transi	mission Operators to determine the applicable owner nsmission Operators to determine SOLs based upon the Transmission Owner-provided Facility Ratings."
Likes 0	
Dislikes 0	
Response	
Daniel Grinkevich - Con Ed - Consolidate	ed Edison Co. of New York - 1
Answer	Yes
Document Name	
Comment	
We support the ISO RTO Council Commen	ts.
Likes 0	
Dislikes 0	
Response	
Shivaz Chopra - New York Power Author	ity - 1,3,5,6
Answer	Yes
Document Name	
Comment	
Supporting NPCC comments	

Likes 0	
Dislikes 0	
Response	
Scott Downey - Peak Reliability - 1	
Answer	Yes
Document Name	
Comment	
Peak agrees that no reliability gap is introduced with the removal of the requirements R2, R2.1, and R2.2. Peak agrees with the justifications set forth in the FAC-011 mapping document for these requirements. Peak also believes that the removal of requirements R2, R2.1 and R2.2 would be strengthened by adoption of the proposed definition of SOL Exceedance.	
Likes 0	
Dislikes 0	
Response	
Aaron Cavanaugh - Bonneville Power Ad	ministration - 1,3,5,6 - WECC
Answer	Yes
Document Name	
Comment	
BPA agrees that these requirements should	be removed from FAC-011-3 because they don't apply to the Operations Horizon.
Likes 0	
Dislikes 0	
Response	
Elizabeth Axson - Electric Reliability Council of Texas, Inc 2	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Joe Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michael Jones - National Grid	i USA - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Brian Van Gheem - ACES Pov	wer Marketing - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Laurie Williams - PNM Resou	rces - Public Service Company of New Mexico - 1

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Douglas Webb - Douglas Webb On Behalf of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; John Carlson, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gladys DeLaO - CPS Energy - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed	
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
James Grimshaw - CPS Energy - 3	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kevin Salsbury - Berkshire Hathaway - N	IV Energy - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gregory Campoli - New York Independer	nt System Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Allie Gavin - Allie Gavin On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Southwest Power Po	ool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Aut	chority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Municipal Power Agency, 6, 4, 3, 5; Joe I	nick On Behalf of: Carol Chinn, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida McKinney, Florida Municipal Power Agency, 6, 4, 3, 5; Ken Simmons, Gainesville Regional Utilities, 1, 3; Richard Montgomery, Florida Municipal Power Agency, 6, 4, 3, 5; Tom Reedy, Florida Municipal roup Name FMPA
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Quintin Lee - Eversource Energy - 1, Gro	up Name Eversource Group
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Julie Hall - Entergy - 6	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Colby Bellville - Duke Energy - 1,3,5,6 - FRCC,SERC,RF, Group Name Duke Energy	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Bridget Silvia - Sempra - San Diego Gas and Electric - 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Preston Walker - PJM Interconnection, L	.L.C 2 - SERC,RF	
Answer	Yes	
Document Name		
Comment		
Likes 3	PSEG - PSEG Energy Resources and Trade LLC, 6, Barton Karla; PSEG - Public Service Electric and Gas Co., 3, Mueller Jeffrey; PSEG - Public Service Electric and Gas Co., 1, Smith Joseph	
Dislikes 0		
Response		
Donald Hargrove - OGE Energy - Oklaho	ma Gas and Electric Co 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Neil Swearingen - Salt River Project - 1,3	5,5,6 - WECC	
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Cynthia Kneisl - Midwest Reliability Orga	nization - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Faz Kasraie - Faz Kasraie On Behalf of: N	like Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mike Smith - Manitoba Hydro - 1, Group I	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Kayleigh Wilkerson - Lincoln Electric System - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Wendy Center - U.S. Bureau of Reclamat	tion - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
John Merrell - Tacoma Public Utilities (Ta	acoma, WA) - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Ginette Lacasse - Seattle City Light - 1,3,4,5,6 - WECC, Group Name Seattle City Light Ballot Body		
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Robert Blackney - Edison Electric Institu	te - 1,3,5,6 - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michelle Amarantos - APS - Arizona Pub	lic Service Co 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Amy Casuscelli - Amy Casuscelli On Bel	nalf of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Steven Powell - Trans Bay Cable LLC - N	A - Not Applicable - WECC

Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Richard Vine - California ISO - 2		
Answer		
Document Name		
Comment		
The California ISO supports the comments of the ISO/RTO Council Standards Review Committee		
Likes 0		
Dislikes 0		
Response		
Sarah Gasienica - NiSource - Northern In	ndiana Public Service Co 5	
Answer		
Document Name		
Comment		
FAC-008 methodology. As written, the lang	does not provide adequate assurance that the RC will respect the ratings established by the TO or the TO's guage is vague and could be interpreted as allowing an RC to determine the ratings that a TOP must use not seasonal changeover dates) without respecting the TO's authority to establish such Facility Ratings.	
Likes 0		
Dislikes 0		
Response		

do you agree that BES performa	sion and the justification provided in the mapping document for FAC-011-3, Requirement R2, R2.3 and R2.4, ince is adequately covered and that no reliability gaps are introduced from the removal of those concepts in a e explain specifically what aspects of the removal you disagree with and propose alternative language.	
Neil Swearingen - Salt River Pro	Neil Swearingen - Salt River Project - 1,3,5,6 - WECC	
Answer	No	
Document Name		
Comment		
throughout each RC area in the wa Methodology enhances reliability b it is valuable to house the languag	arifying language of 2.3 and 2.4. Having the options explicitly stated within the standard ensures consistency ay TOPs respond to Contingencies. Having those clear, well-defined options spelled out within the RC's SOL by setting consistent expectations of what actions neighboring or overlapping TOPs may be performing. Furthermore, e within a standard dealing with the Operations Planning Horizon, to avoid a potential misconception that the sible when planning the system in the Near-term or Long-term Planning Horizons.	
Likes 0		
Dislikes 0		
Response		
Sarah Gasienica - NiSource - No	orthern Indiana Public Service Co 5	
Answer	No	
Document Name		
Comment		
See response to Question 2 above	9.	
Likes 0		
Dislikes 0		
Response		
Terri Pyle - OGE Energy - Oklah	oma Gas and Electric Co 1	
Answer	No	
Document Name		
Comment		
With regard to the proposed Degree	irement R2 OGE helieves that the proposed language could be mistakenly interpreted as giving the Reliability	

With regard to the proposed Requirement R2, OGE believes that the proposed language could be mistakenly interpreted as giving the Reliability Coordinator the discretion to impose unacceptable Facility Ratings to Transmission Operators. We would ask that the drafting team provides more

clarity on the intent for this requirement.	
Likes 0	
Dislikes 0	
Response	
Janis Weddle - Public Utility District No. 1 of Chelan County - 6, Group Name Chelan PUD	
Answer	No
Document Name	

Comment

Comment 1: CHPD is concerned about the 'permitted uses' language of RAS and other schemes, to be contained in the RC's methodology. In the TPL / Planning process, an entity may determine and build a scheme under a certain set of assumptions (how the system was planned / designed / built). The entity may determine this scheme is acceptable to their own operations. The RC may then prohibit the use of this non-RAS in the RC's SOL methodology, rendering the scheme useless for actual operations. CHPD has witnessed this concern with one of its neighbor's automatic schemes and feels that the prohibition of the scheme's use for operations has not always been in the best interest of system reliability. CHPD also recognizes the Planning Coordinator and Reliability Coordinator will be performing additional coordination through the new PRC-012-2, whose purpose is stated as "To ensure that Remedial Action Schemes (RAS) do not introduce unintentional or unacceptable reliability risks to the Bulk Electric System

(BES)." The requirement here in FAC-011 may be duplicative of those objectives found in the new PRC-012-2.

In FAC-011-3, only allowed uses of Remedial Action Schemes was listed under the RC's methodology requirements. In FAC-011-4, the addition of 'other automatic post-Contingency mitigation actions' adds significant scope to the methodology. CHPD wants the Standard Drafting Team to ensure that the concept of 'operated as designed' is maintained in the use of these other automatic post-Contingency mitigation actions.

Comment 2: In the discussion about UFLS being not permitted in R4.6 (and by omittance, UVLS being permitted) CHPD identifies that there seems to be confusion, or at least the potential for confusion, about the FERC order and acceptable use or non-use of these schemes. The first point is that there is a difference between a UFLS or UVLS program. From the NERC glossary of terms:

Undervoltage Load Shedding Program: An automatic load shedding program, consisting of distributed relays and controls, used to mitigate undervoltage conditions impacting the Bulk Electric System (BES), leading to voltage instability, voltage collapse, or Cascading. Centrally controlled undervoltage-based load shedding is not included.

Underfrequency Load Shedding Program is not described in the NERC glossary of terms, but is described in the purpose description for PRC-006:

To establish design and documentation requirements for automatic underfrequency load shedding (UFLS) programs to arrest declining frequency, assist recovery of frequency following underfrequency events and provide last resort system preservation measures

A UFLS or UVLS program is a coordinated use of UFLS or UVLS relays at multiple locations and are essentially used to prevent described conditions that are essentially the events of an IROL. The FERC order 818 states regarding UVLS programs:

"We conclude that UVLS **programs** (emphasis added) under PRC-010-1 are examples of such "safety nets" and should not be tools used by bulk electric system operators to calculate operating limits for N-1 contingencies."

Again, in the "Final Report on the August 14, 2003 Blackout in the United States and Canada: Causes and Recommendations", on page 109 in the discussion about UFLS as a safety net, it simply states:

Safety nets should not be relied upon to es	tablish transfer limits
CHPD would like clarification here in the proposed FAC-011-4 whether the references to UFLS (and UVLS) are meant to be to the UFLS (PRC-006) and UVLS (PRC-010) Programs or is it a reference to something else.	
Likes 0	
Dislikes 0	
Response	
Aaron Cavanaugh - Bonneville Power Ac	Iministration - 1,3,5,6 - WECC
Answer	Yes
Document Name	
Comment	
None	
Likes 0	
Dislikes 0	
Response	
Scott Downey - Peak Reliability - 1	
Answer	Yes
Document Name	
Comment	
Peak agrees that BES performance is adequately covered and that no reliability gap is introduced with the removal of the requirements R2, R2.3 and its subparts, and R2.4. Peak agrees with the justifications set forth in the FAC-011 mapping document for these requirements. Peak believes that the "rules" set forth in the current FAC-011-3 R2, R2.3 and its subparts, and R2.4 have relevance in the TPL standards, but not in the TOP or IRO standards. When planners plan the system, they are constructing a system that meets the performance requirements set forth in TPL-001-4. This system is then provided to operators to operate. Rules such as those reflected in Table 1 of TPL-001-4 and the footnotes of Table 1 are important for identifying Corrective Action Plans associated with determining how the system is to be built; however, Peak believes the "rules" as reflected in FAC-011-3 R2, R2.3 and its subparts, and R2.4 are not necessary for operating the system. Operators encounter many operating scenarios that were not addressed or anticipated in the TPL Planning Assessments, and very often these conditions are more severe than those assessed in the Planning Assessments. Peak agrees with the SDT's assertion that operators need the flexibility to operate the system to address SOL exceedances without being confined to such "rules" regarding non-consequential load loss, interruption of firm transmission, and requirements associated with preparations for the next Contingency. All of these items are expected to be addressed as needed in associated Operating Plans. Accordingly, operators do not need to be confined to these "rules" set forth in current FAC-011-3 R2, R2.3 and its subparts, and R2.4.	

Dislikes 0

Response	
Shivaz Chopra - New York Power Author	rity - 1,3,5,6
Answer	Yes
Document Name	
Comment	
Supporting NPCC comments	
Likes 0	
Dislikes 0	
Response	
Colby Bellville - Duke Energy - 1,3,5,6 -	FRCC,SERC,RF, Group Name Duke Energy
Answer	Yes
Document Name	
Comment	
Duke Energy would like to point out to the sub-requirements to a New Standard or Of that perhaps the drafting team meant to re	SDT, a potential typo in the FAC-011-3 Mapping Document. When referencing the translation of R2 and its ther Action, the SDT appears to reference a TOP-012-3 standard R14. We believe that this was in error, and ference TOP-001-3 instead.
Likes 0	
Dislikes 0	
Response	
Daniel Grinkevich - Con Ed - Consolidat	ed Edison Co. of New York - 1
Answer	Yes
Document Name	
Comment	
We support the ISO RTO Council Comme	nts.
Likes 0	
Dislikes 0	
Response	

Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed
Answer	Yes
Document Name	
Comment	
associated with SOLs are vague compared	from R2 is relevant, but that the performance requirements associated with determination of stability limits to the TPL assessments. Is the SDT intent to let full flexibility to the RC with regards to stability performance mple, is a unit pulling out of synchronism something up to the RC to demonstrate as acceptable for the given interface?
Likes 0	
Dislikes 0	
Response	
Michael Jones - National Grid USA - 1	
Answer	Yes
Document Name	
Comment	
National Grid supports the NPCC RSC Gro	up comments.
Likes 0	
Dislikes 0	
Response	
Lauren Price - American Transmission C	Company, LLC - 1 - MRO,RF
Answer	Yes
Document Name	
Comment	
The existing TOP standards adequately co	over BES performance.
Likes 0	
Dislikes 0	
Response	

Steven Powell - Trans Bay Cable LLC - NA - Not Applicable - WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Amy Casuscelli - Amy Casuscelli On Bel	half of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Michelle Amarantos - APS - Arizona Pub	lic Service Co 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Robert Blackney - Edison Electric Institute - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Ginette Lacasse - Seattle City Light - 1,3,	4,5,6 - WECC, Group Name Seattle City Light Ballot Body
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
John Merrell - Tacoma Public Utilities (Ta	acoma, WA) - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Wendy Center - U.S. Bureau of Reclamat	ion - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Kayleigh Wilkerson - Lincoln Electric System - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mike Smith - Manitoba Hydro - 1, Group	Name Manitoba Hydro	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Pamela Hunter - Southern Company - So	outhern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Faz Kasraie - Faz Kasraie On Behalf of: Mike Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie		
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Cynthia Kneisl - Midwest Reliability Orga	anization - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Donald Hargrove - OGE Energy - Oklaho	ma Gas and Electric Co 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Preston Walker - PJM Interconnection, L	.L.C 2 - SERC,RF
Answer	Yes
Document Name	
Comment	
Likes 3	PSEG - PSEG Energy Resources and Trade LLC, 6, Barton Karla; PSEG - Public Service Electric and Gas Co., 3, Mueller Jeffrey; PSEG - Public Service Electric and Gas Co., 1, Smith Joseph
Dislikes 0	
Response	

Bridget Silvia - Sempra - San Diego Gas	and Electric - 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Julie Hall - Entergy - 6	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Quintin Lee - Eversource Energy - 1, Gro	pup Name Eversource Group
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Municipal Power Agency, 6, 4, 3, 5; Joe I	ick On Behalf of: Carol Chinn, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida McKinney, Florida Municipal Power Agency, 6, 4, 3, 5; Ken Simmons, Gainesville Regional Utilities, 1, , 3; Richard Montgomery, Florida Municipal Power Agency, 6, 4, 3, 5; Tom Reedy, Florida Municipal roup Name FMPA
Answer	Yes
Document Name	

Comment		
Likes 0		
Dislikes 0		
Response		
Dennis Chastain - Tennessee Valley Autl	hority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Shannon Mickens - Southwest Power Po	ol, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Allie Gavin - Allie Gavin On Behalf of: Mi	chael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Gregory Campoli - New York Independent System Operator - 2	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kevin Salsbury - Berkshire Hathaway - N	IV Energy - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
James Grimshaw - CPS Energy - 3	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gladys DeLaO - CPS Energy - 1	
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Great Plains Energy - Kansas City Power	If of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Laurie Williams - PNM Resources - Publi	c Service Company of New Mexico - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Leonard Kula - Independent Electricity S	ystem Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Brian Van Gheem - ACES Pow	er Marketing - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Municipal Utility District, 4, 1, 5	On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento 5, 6, 3; Jamie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of Looney, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Elizabeth Axson - Electric Reli	ability Council of Texas, Inc 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Richard Vine - California ISO -	2
Answer	

Document Name	
Comment	
The California ISO supports the comments of	of the ISO/RTO Council Standards Review Committee
Likes 0	
Dislikes 0	
Response	

	FAC-011-3, Requirement R2, R2.3 and R2.4 that you maintain need to be preserved in requirements g Plans which would reside outside the FAC family of standards? Please explain your response.
Janis Weddle - Public Utility District No.	1 of Chelan County - 6, Group Name Chelan PUD
Answer	No
Document Name	
Comment	
guidelines, etc.) can reside outside the star Regarding R2, R2.3 and R2.4 as it deals w	e maintained in standards. Documentation and examples supporting those objectives (white papers, ndard. Regarding Operating Plans, the definition found in the NERC glossary of terms is sufficient for CHPD. ith the response of the system to events, any other reliability objectives should be contained in the standard view, and due process related to these items. CHPD has mentioned some concerns in its responses to item idd here.
Likes 0	
Dislikes 0	
Response	
Daniel Grinkevich - Con Ed - Consolidate	ed Edison Co. of New York - 1
Answer	No
Document Name	
Comment	
We support the ISO RTO Council Commen	its.
Likes 0	
Dislikes 0	
Response	
Scott Downey - Peak Reliability - 1	
Answer	No
Document Name	

Comment

Peak believes that the "rules" set forth in the current FAC-011-3 R2, R2.3 and its subparts, and R2.4 have relevance in the TPL standards, but not in the TOP or IRO standards. When planners plan the system, they are constructing a system that meets the performance requirements set forth in TPL-001-4. This system is then provided to operators to operate. Rules such as those reflected in Table 1 of TPL-001-4 and the footnotes of Table 1 are important for identifying Corrective Action Plans associated with determining how the system is to be built; however, Peak believes the "rules" as

that were not addressed or anticipated in th Planning Assessments. Peak agrees with the without being confined to such "rules" regar preparations for the next Contingency. All of	oparts, and R2.4 are not necessary for operating the system. Operators encounter many operating scenarios e TPL Planning Assessments, and very often these conditions are more severe than those assessed in the ne SDT's assertion that operators need the flexibility to operate the system to address SOL exceedances ding non-consequential load loss, interruption of firm transmission, and requirements associated with f these items are expected to be addressed as needed in associated Operating Plans. Accordingly, se "rules" set forth in current FAC-011-3 R2, R2.3 and its subparts, and R2.4	
Likes 0		
Dislikes 0		
Response		
Neil Swearingen - Salt River Project - 1,3	,5,6 - WECC	
Answer	No	
Document Name		
Comment		
SRP Recommends retaining the language of R2.3 and R2.4 within the FAC-011-4 standard.		
Likes 0		
Dislikes 0		
Response		
Wendy Center - U.S. Bureau of Reclamat	ion - 5	
Answer	No	
Document Name		
Comment		
Reclamation supports the changes to the re	equirements because no gaps were identified as the result of the changes.	
Likes 0		
Dislikes 0		
Response		
Aaron Cavanaugh - Bonneville Power Ac	Iministration - 1,3,5,6 - WECC	
Answer	No	
Document Name		
Comment		

BPA has reviewed R2, R2.3 and 2.4 and be	elieves the TOP-001-4 and TOP-002-4 requirements are sufficient.
Likes 0	
Dislikes 0	
Response	
Amy Casuscelli - Amy Casuscelli On Bel	half of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli
Answer	No
Document Name	
Comment	
The revised TOP and TPL standards cover	the planning and operations of the system.
Likes 0	
Dislikes 0	
Response	
Elizabeth Axson - Electric Reliability Cou	uncil of Texas, Inc 2
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Lauren Price - American Transmission Company, LLC - 1 - MRO,RF	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Municipal Utility District, 4, 1, 5, 6, 3;	nalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Jamie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of y, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Brian Van Gheem - ACES Power Mar	keting - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Leonard Kula - Independent Electrici	ty System Operator - 2
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Laurie Williams - PNM Resources - P	ublic Service Company of New Mexico - 1

Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Douglas Webb - Douglas Webb On Behalf of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; John Carlson, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb		
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Gladys DeLaO - CPS Energy - 1		
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
James Grimshaw - CPS Energy - 3		
Answer	No	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Kevin Salsbury - Berkshire Hathaway	· NV Energy - 5
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gregory Campoli - New York Independ	lent System Operator - 2
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
	Michael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Southwest Power	Pool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group

Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Aut	hority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Brandon McCormick - Brandon McCormick On Behalf of: Carol Chinn, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida Municipal Power Agency, 6, 4, 3, 5; Joe McKinney, Florida Municipal Power Agency, 6, 4, 3, 5; Ken Simmons, Gainesville Regional Utilities, 1, 3, 5; Randy Hahn, Ocala Utility Services, 3; Richard Montgomery, Florida Municipal Power Agency, 6, 4, 3, 5; Tom Reedy, Florida Municipal Power Pool, 6; - Brandon McCormick, Group Name FMPA	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Quintin Lee - Eversource Energy - 1, Group Name Eversource Group	
Answer	No
Document Name	
Comment	

No		
Colby Bellville - Duke Energy - 1,3,5,6 - FRCC,SERC,RF, Group Name Duke Energy		
No		
Sarah Gasienica - NiSource - Northern Indiana Public Service Co 5		
No		

Preston Walker - PJM Interconnection, L.L.C 2 - SERC,RF		
Answer	No	
Document Name		
Comment		
Likes 3	PSEG - PSEG Energy Resources and Trade LLC, 6, Barton Karla; PSEG - Public Service Electric and Gas Co., 3, Mueller Jeffrey; PSEG - Public Service Electric and Gas Co., 1, Smith Joseph	
Dislikes 0		
Response		
Donald Hargrove - OGE Energy - Oklaho	ma Gas and Electric Co 3	
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Cynthia Kneisl - Midwest Reliability Orga	anization - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF	
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Faz Kasraie - Faz Kasraie On Behalf of: Mike Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie		
Answer	No	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Pamela Hunter - Southern Company - So	uthern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mike Smith - Manitoba Hydro - 1, Group I	Name Manitoba Hydro
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kayleigh Wilkerson - Lincoln Electric System - 5	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

John Merrell - Tacoma Public Utilities (Tacoma, WA) - 1		
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Robert Blackney - Edison Electric Institu	ute - 1,3,5,6 - WECC	
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Michelle Amarantos - APS - Arizona Pub	lic Service Co 1	
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Michael Jones - National Grid USA - 1		
Answer	Yes	
Document Name		
Comment		

National Grid supports the NPCC RSC Group comments. Additional comment for consideration: Typically there are additional Thermal ratings above

the "normal" limit that have a time frame associated with them. For example an emergency limit may be a 15 minute rating, i.e. the flow can be at the emergency rating for 15 minutes. Therefore, by design, being above the normal rating is not going to result in damage to the BES elements. Therefore the 1st bullet in the SOL Exceedance definition could be revised to state "Actual flow through a Facility is above the Facility's Rating and the associated allowable time frame is exceeded".		
Likes 0		
Dislikes 0		
Response		
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed	
Answer	Yes	
Document Name		
Comment		
We think actions allowed in real-time operations should not be part of FAC-011, but captured by TOP/IRO standards. We think there is ambiguity and a lack of consistency in the industry around allowed system adjustments and preparation for the next contingency (old R2.4) with refers indirectly to -0111re duar biss at & Illuminightum is to be an stroked FaA Set of single contingencies to address stability limits, it is not clear at all what are the minimum requirements applicable if the contingency was to occur and how "preparing for the next contingency" is addressed by the current standards.		
Likes 0		
Dislikes 0		
Response		
Shivaz Chopra - New York Power Authority - 1,3,5,6		
Answer	Yes	
Document Name		
Comment		
Supporting NPCC comments		
Likes 0		
Dislikes 0		
Response		
sean erickson - Western Area Power Administration - 1		
Answer	Yes	

Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Bridget Silvia - Sempra - San Diego Gas	and Electric - 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Ginette Lacasse - Seattle City Light - 1,3	4,5,6 - WECC, Group Name Seattle City Light Ballot Body	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Steven Powell - Trans Bay Cable LLC - NA - Not Applicable - WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		

Response		
Richard Vine - California ISO - 2		
Answer		
Document Name		
Comment		
The California ISO supports the comments of the ISO/RTO Council Standards Review Committee		
Likes 0		
Dislikes 0		
Response		

5. Do you agree that the SDT should allow the use of UVLS in the establishment of stability limits? If not, please explain and provide alternative language.		
Aaron Cavanaugh - Bonneville Power Ac	Iministration - 1,3,5,6 - WECC	
Answer	No	
Document Name		
Comment		
It is unclear in 4.6 (and the entirety of R4) if "stability limits" refers to either or both of the following (1) bulk transfer across the BES (transfer limit stability studies) or (2) load areas (local area limit stability studies). BPA believes that it is important to distinguish between transfer limit stability studies and local area limit stability studies. We recommend that the SDT add language to R4 to clarify that R4 applies to only transfer limit stability studies. BPA believes that the SDT should not allow UVLS in transfer limit stability studies, unless it is part of a designated RAS. We understand that FERC is describing transfer limit stability studies in Order 818. BPA therefore does not think that relying on UVLS, except where included in RAS, to increase transfer limits is appropriate. However, BPA believes that the SDT should allow UVLS in local area limit stability studies when failure of the UVLS would not result in cascading. If UVLS is not allowed in local area limit stability studies, the TOP may be forced to perform pre-contingency load shed. Proposed: Planned use of UFLS or UVLS in establishment of stability limits is not allowed unless either of the following conditions is true: • Pre-contingency load shedding would be required in order to meet BES performance criteria • Load shedding is already included as part of an approved Remedial Action Scheme Likes 0		
Dislikes 0		
Response		
Ginette Lacasse - Seattle City Light - 1,3,4,5,6 - WECC, Group Name Seattle City Light Ballot Body		
Answer	No	
Document Name		
Comment		
UVLS is a safety net. It should not be used as an acceptable tool to preserve acceptable system performance for credible contingencies unless it is part of a RAS. This is directly implied in FERC order 818. The wording should be: "R4.6 Describe; neither the planned use of underfrequency load shedding (UFLS) or undervoltage load shedding (UVLS) is allowed in the establishment of stability limits."		
Likes 0		
Dislikes 0		
Response		

Wendy Center - U.S. Bureau of Reclamation - 5	
Answer	No
Document Name	
Comment	
Reclamation has concerns with possible mi Reclamation also does not agree with the ic TOP will inform the RC which Contingencie	sinterpretation of FAC-011-4 R4.2 and R5 as it implies Real-Time Assessments will include Stability. dentified single Contingency and multiple Contingencies for use in determining stability limits because the s are credible.
Likes 0	
Dislikes 0	
Response	
Faz Kasraie - Faz Kasraie On Behalf of: I	Mike Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie
Answer	No
Document Name	
Comment	
of a RAS. This is directly implied in FERC	as an acceptable tool to preserve acceptable system performance for credible contingencies unless it is parorder 818. The wording should be: "R4.6 Describe; neither the planned use of underfrequency load dding (UVLS) is allowed in the establishment of stability limits."
Likes 0	
Dislikes 0	
Response	
Cynthia Kneisl - Midwest Reliability Orga	anization - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF
Answer	No
Document Name	
Comment	
UVLS should remain a safety net and not b	e relied upon to provide acceptable system performance even for N-1-1 or N-2 contingencies.

Likes 0	
Dislikes 0	
Response	
Michael Cruz-Montes - CenterPoint Ener	gy Houston Electric, LLC - 1 - Texas RE
Answer	No
Document Name	
Comment	
stability limits. CenterPoint Energy believes	("CenterPoint Energy") does not agree that the SDT should allow the use of UVLS in the establishment of that UVLS, like UFLS, is a "safety net" that is deployed as a preservation measure to maintain the reliability n to establish limits in a planning environment, regardless of horizon.
Likes 0	
Dislikes 0	
Response	
Daniel Grinkevich - Con Ed - Consolidate	ed Edison Co. of New York - 1
Answer	No
Document Name	
Comment	
We support the ISO RTO Council Commen	ts.
Likes 0	
Dislikes 0	
Response	
Janis Weddle - Public Utility District No.	1 of Chelan County - 6, Group Name Chelan PUD
Answer	No
Document Name	
Comment	

These comments are duplicated from comments made on question #3 above. CHPD would note that the language stated in the NERC summary from the 2003 report uses the term 'transfer limits', whereas in this SOL revision document it is described as 'stability limits'. These two terms have different meanings, and the reference in the SOL document should be reviewed.

In the discussion about UFLS being not permitted in R4.6 (and by omittance, UVLS being permitted) CHPD identifies that there seems to be confusion, or at least the potential for confusion, about the FERC order and acceptable use or non-use of these schemes. The first point is that there is a difference between a UFLS or UVLS program. From the NERC glossary of terms:

Undervoltage Load Shedding Program: An automatic load shedding program, consisting of distributed relays and controls, used to mitigate undervoltage conditions impacting the Bulk Electric System (BES), leading to voltage instability, voltage collapse, or Cascading. Centrally controlled undervoltage-based load shedding is not included.

Underfrequency Load Shedding Program is not described in the NERC glossary of terms, but is described in the purpose description for PRC-006:

To establish design and documentation requirements for automatic underfrequency load shedding (UFLS) programs to arrest declining frequency, assist recovery of frequency following underfrequency events and provide last resort system preservation measures

A UFLS or UVLS program is a coordinated use of UFLS or UVLS relays at multiple locations and are essentially used to prevent described conditions that are essentially the events of an IROL. The FERC order 818 states regarding UVLS programs:

"We conclude that UVLS **programs** (emphasis added) under PRC-010-1 are examples of such "safety nets" and should not be tools used by bulk electric system operators to calculate operating limits for N-1 contingencies."

Again, in the "Final Report on the August 14, 2003 Blackout in the United States and Canada: Causes and Recommendations", on page 109 in the discussion about UFLS as a safety net, it simply states:

Safety nets should not be relied upon to establish transfer limits

CHPD would like clarification here in the proposed FAC-011-4 whether the references to UFLS (and UVLS) are meant to be to the UFLS (PRC-006) and UVLS (PRC-010) Programs or is it a reference to something else.

and OVES (PRC-010) Programs or is it a reference to something else.	
Likes 0	
Dislikes 0	
Response	
Allie Gavin - Allie Gavin On Behalf of: M	ichael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin
Answer	No
Document Name	
Comment	
UVLS should remain a safety net and not b	e relied upon to provide acceptable system performance even for N-1-1 or N-2 contingencies.
Likes 0	
Dislikes 0	
Response	
Gregory Campoli - New York Independer	nt System Operator - 2
Answer	No

Document Name	
Comment	
	nedding schemes (UVLS) are a "safety net" and should not be a tool used by Bulk Electric System operators reas single contingencies include bus faults, stuck breakers and tower-contingencies.
Note: ERCOT does not support this respons	Se.
Likes 0	
Dislikes 0	
Response	
Municipal Utility District, 4, 1, 5, 6, 3; Jan	of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento nie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of acramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, No
Document Name	
Comment	
establishment of stability limits for N-1 con in the establishment of stability limits for N a "Yes" to Question 5 is contradicted to FEF 818.	The SDT rationale indicated that their understanding of FERC Order 818 prohibited the use UVLS in the tingency. Hence, if the SDT understanding of the FERC order is correct that FERC doesn't allow use of UVLS -1 contingency then it would also mean that using UVLS is also prohibited for N-2 contingencies. Indicating RC Order 818. Indicating a "No" to Question 5 is in alignment with the SDT understanding of FERC Order
Likes 0	

Dislikes 0	
Response	
Quintin Lee - Eversource Energy - 1, Gro	pup Name Eversource Group
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Amy Casuscelli - Amy Casuscelli On Bel	half of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli
Answer	Yes
Document Name	
Comment	
umbrella term that also includes local UVLS	UVLS assuming that its meaning is not restrictred to the defined term UVLS Program and is used as an schemes. We would disagree if UVLS was intended to be synonymous with UVLS Program, since it would This illustrates the need to clarify what is the intended scope of UVLS in this standard.
Likes 0	
Dislikes 0	
Response	
Mike Smith - Manitoba Hydro - 1, Group	Name Manitoba Hydro
Answer	Yes
Document Name	
Comment	
A stability limit may arise due to any type of or increase stability limits such that transfer	multiple contingency (R5.3 and R5.4). UVLS should be a permissible mitigation method to either eliminate are not unduly constrained.
Likes 0	
Dislikes 0	

Response	
Neil Swearingen - Salt River Project - 1,3	,5,6 - WECC
Answer	Yes
Document Name	
Comment	
Planning Assessment and Real-time Opera	gating actions permitted to maintain acceptable performance after N-1-1 and N-2 Contingencies in the tions. The use of equal more limiting parameters prescribed in FAC-015-1 R1-R3 would be undermined by a severe Contingencies when calculating SOLs.
Likes 0	
Dislikes 0	
Response	
Scott Downey - Peak Reliability - 1	
Answer	Yes
Document Name	
Comment	
Peak agrees that UVLS should be allowed for use to prevent adverse reliability impacts for Contingencies more severe than single P1 Contingencies and that such allowances should be addressed in the RC's SOL Methodology. However, Peak is concerned that the use of UVLS, RAS, and other automatic post-Contingency mitigation schemes are confined to the development of stability limits. Peak believes that the allowed use of RAS or other automatic post-Contingency mitigation actions should be extended beyond the establishment of stability limits to also apply to the development of Operating Plans in general. Because the current FAC-011-3 intermingles "how to operate the system" with SOL establishment, it can be argued that the current FAC-011-3 already allows the RC's SOL Methodology to extended beyond the establishment of stability limits to also apply to the development of Operating Plans. While Peak is supportive of the SDT's attempt to focus FAC-011-4 more on establishing Facility Ratings, System Voltage Limits, and stability limits used in operations and removing the aspects of FAC-011-3 that relate more to "how to operate the system", it seems the SDT inadvertently introduced an inconsistency by limiting the use of RAS (or automatic actions) for deriving stability limits only. Peak believes the RC should have the ability to determine the use of RAS and other automatic post-Contingency mitigation actions across the board – not just for stability limit establishment. This issue, however, does not seem appropriate to be addressed in the FAC family of standards.	
Likes 0	
Dislikes 0	
Response	
Preston Walker - PJM Interconnection, L	.L.C 2 - SERC,RF
Answer	Yes
Document Name	

Comment	
	ses the prohibition of using UVLS for calculating SOLs for single N-1 Contingencies, the SDT should conside ecognizes the FERC Order 818's prohibition on the use of UVLS in the determination of N-1 stability limits.
Likes 3	PSEG - PSEG Energy Resources and Trade LLC, 6, Barton Karla; PSEG - Public Service Electric and Gas Co., 3, Mueller Jeffrey; PSEG - Public Service Electric and Gas Co., 1, Smith Joseph
Dislikes 0	
Response	
Shivaz Chopra - New York Power Author	rity - 1,3,5,6
Answer	Yes
Document Name	
Comment	
Supporting NPCC comments	
Likes 0	
Dislikes 0	
Response	
Municipal Power Agency, 6, 4, 3, 5; Joe M	ick On Behalf of: Carol Chinn, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida McKinney, Florida Municipal Power Agency, 6, 4, 3, 5; Ken Simmons, Gainesville Regional Utilities, 1, 3; Richard Montgomery, Florida Municipal Power Agency, 6, 4, 3, 5; Tom Reedy, Florida Municipal roup Name FMPA
Answer	Yes
Document Name	
Comment	
background information provided is confusion between UFLS and UVLS when in fact they events and we see no reason why UFLS shapes of the second	ide the background and historical context of UVLS and the derivation of IROLS. Unfortunately the ng and does not make clear what the SDT is trying convey. The rational appears to try and draw a line of perform the same function, but for different quantities. The use of UFLS is allowed in certain PC studied nouldn't be used where appropriate. We agree that UVLS should be considered in the establishment of LS should be allowed under certain scenarios as it is in the planning horizon.
Likes 0	
Dislikes 0	
Response	

David Jendras - Ameren - Ameren Service	ces - 3	
Answer	Yes	
Document Name		
Comment		
UVLS is allowed to maintain system perform UVLS should not conflict with standard TPL	mance for some contingency events as described in Table 1 of standard TPL-001-4. The RC allowed use of001-4.	
Likes 0		
Dislikes 0		
Response		
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed	
Answer	Yes	
Document Name		
Comment		
We agree with the allowed use of UVLS under certain conditions, but we strongly disagree with the way the SDT has addressed the allowed use of UFLS and UVLS in the new FAC-011. Since R5 gives some flexibility to the RC to choose its method for considering various types of contingencies (N-1, N-2, etc.) for both OPA/RTA and stability limits, the acceptable actions in R4.6 should not be limited as they can vary a lot depending on the types of contingencies considered. For example, a RC considering only the minimum single contingencies from R5.1 may not be allowed to use UFLS and UVLS actions for N-1 but another RC may choose to establish stability limits and limit transfers accordingly to address more stringent and rare multiple contingencies for which additional means like the action of UFLS/UVLS may be allowed (if that same RC would choose not to plan a stability limit for those contingencies, it would be acceptable to use UFLS/UVLS as a safety net?). Similarly, the reference to UVLS in SVL requirement R2 is not adequate, as SVL may comprise multiple levels, some for acceptable for single contingencies (without UVLS), some with some UVLS actions allowed for multiple contingencies. We think that the consequence of the action (e.g. the use of non-consequential load loss as in TPL) should be used throughout the standards to allow the use of actions for specific contingencies (rather than referring to RAS, UFLS or UVLS).		
Likes 0		
Dislikes 0		
Response		
Leonard Kula - Independent Electricity S	system Operator - 2	
Answer	Yes	
Document Name		
Comment		

In the case of non-IROL SOLs we agree. His only considered in the context of establish	However, it was noted that according to the background information above and in FAC-11-4, the use of UVLS hing stability limits as per Requirement R4 Part 4.6.
The use of UVLS should also be acceptable	le to respect Facility Ratings and System Voltage Limits.
Likes 0	
Dislikes 0	
Response	
Michael Jones - National Grid USA - 1	
Answer	Yes
Document Name	
Comment	
National Grid supports the NPCC RSC Gro	up comments.
Likes 0	
Dislikes 0	
Response	
Lauren Price - American Transmission C	company, LLC - 1 - MRO,RF
Answer	Yes
Document Name	
Comment	
	ke into account automatic actions, including RAS and UVLS, since the loss of load can negatively impact SDT is correct in including this language in the proposed revisions.
Likes 0	
Dislikes 0	
Response	
Elizabeth Axson - Electric Reliability Cou	uncil of Texas, Inc 2
Answer	Yes
Document Name	
Comment	

may be appropriate to use UVLS to determi	UVLS for the purpose of increasing transfer capability for stability limits for N-1 Contingencies. However, it into the post-contingency impact in regards to establishment of an IROL vs. an SOL. It may also be either or not pre-contingency load shedding is warranted.
Likes 0	
Dislikes 0	
Response	
Steven Powell - Trans Bay Cable LLC - N	A - Not Applicable - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michelle Amarantos - APS - Arizona Pub	lic Service Co 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Robert Blackney - Edison Electric Institu	rte - 1,3,5,6 - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0	
Response	
John Merrell - Tacoma Public Utilities (T	acoma, WA) - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kayleigh Wilkerson - Lincoln Electric Sy	stem - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Pamela Hunter - Southern Company - So	outhern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Donald Hargrove - OGE Energy - Oklahoma Gas and Electric Co 3	
Answer	Yes

Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
John Seelke - LS Power Transmission, L	LC - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Sarah Gasienica - NiSource - Northern Ir	ndiana Public Service Co 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Bridget Silvia - Sempra - San Diego Gas and Electric - 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		

Response		
Colby Bellville - Duke Energy - 1,3,5,6 - F	FRCC,SERC,RF, Group Name Duke Energy	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Julie Hall - Entergy - 6		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
	ative, Inc 1, Group Name AECI & Member G&Ts	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Dennis Chastain - Tennessee Valley Aut	chority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority	
Answer	Yes	
Document Name		

Comment		
Likes 0		
Dislikes 0		
Response		
Shannon Mickens - Southwest Power Po	ol, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
sean erickson - Western Area Power Adr	ministration - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kevin Salsbury - Berkshire Hathaway - NV Energy - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

James Grimshaw - CPS Energy - 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Gladys DeLaO - CPS Energy - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Douglas Webb - Douglas Webb On Behalf of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; John Carlson, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Laurie Williams - PNM Resources - Publi	c Service Company of New Mexico - 1	
Answer	Yes	
Document Name		

Comment	
Likes 0	
Dislikes 0	
Response	
Brian Van Gheem - ACES Power Marketi	ng - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Richard Vine - California ISO - 2	
Answer	
Document Name	
Comment	
The California ISO supports the comments of the ISO/RTO Council Standards Review Committee	
Likes 0	
Dislikes 0	
Response	

6. If you have any other comments that you haven't already provided in response to questions 2-5, please provide them here.		
Elizabeth Axson - Electric Reliability Council	l of Texas, Inc 2	
Answer		
Document Name		
Comment		
	arify that the SOL methodology establishes a method for determining which of the Facility Ratings tions, and not a method for establishing Facility Ratings. Please see the suggested language below.	
	n its SOL Methodology the method for Transmission Operators to determine which of the applicable lity operators. The method shall address the use of common Facility Ratings between the Reliability its Reliability Coordinator Area.	
ways. ERCOT understands that the intent of the how the common set of System Voltage Limits by	e "Address the use of" is unclear. The meaning of this phrase could be interpreted several different e SDT is to ensure that, under the SOL methodology, the RC and its TOPs have a method to determine between the RC and TOPs are to be used in operations, without becoming overly prescriptive in the rding proposed R3.5 to "Address how the Reliability Coordinator and its Transmission Operators use y Coordinator Area;"	
in operations. To add clarity, ERCOT suggests SOL Methodology. "	the <i>minimum</i> stability performance criteria that should be used in the method to determine stability limits adding a new part 4.1.5 that reads "other stability performance criteria as required by the RC's	
****Please refer to the attached comment form f	for redlined language.	
Likes 0		
Dislikes 0		
Response		
Brian Van Gheem - ACES Power Marketing -	6 - NA - Not Applicable, Group Name ACES Standards Collaborators	
Answer		
Document Name		
Comment		

Requirement R7 of the proposed FAC-011-4 standard requires the RC to define the method and periodicity a TOP must communicate their SOLs back to the RC. In comparison, parts 5.3-5.5 of requirement R5 of FAC-014-3 identify such communications must occur on a mutually agreed upon time frame. We believe Requirement R7 should be changed to a mutually agreeable timeframe that reflects the frequency a Transmission Operator will

Likes 0 Dislikes 0 Response Michael Jones - National Grid USA - 1 Answer Document Name Comment National Grid supports the NPCC RSC Group comments. Likes 0 Dislikes 0 Response Lauren Price - American Transmission Company, LLC - 1 - MRO,RF Answer Document Name Comment	conduct its Operational Planning Analyses a	and Real	-time Assessments.
Response Michael Jones - National Grid USA - 1 Answer Document Name Comment National Grid supports the NPCC RSC Group comments. Likes 0 Dislikes 0 Response Lauren Price - American Transmission Company, LLC - 1 - MRO,RF Answer Document Name	Likes 0		
Michael Jones - National Grid USA - 1 Answer Document Name Comment National Grid supports the NPCC RSC Group comments. Likes 0 Dislikes 0 Response Lauren Price - American Transmission Company, LLC - 1 - MRO,RF Answer Document Name	Dislikes 0		
Answer Document Name Comment National Grid supports the NPCC RSC Group comments. Likes 0 Dislikes 0 Response Lauren Price - American Transmission Company, LLC - 1 - MRO,RF Answer Document Name	Response		
Answer Document Name Comment National Grid supports the NPCC RSC Group comments. Likes 0 Dislikes 0 Response Lauren Price - American Transmission Company, LLC - 1 - MRO,RF Answer Document Name			
Document Name Comment National Grid supports the NPCC RSC Group comments. Likes 0 Dislikes 0 Response Lauren Price - American Transmission Company, LLC - 1 - MRO,RF Answer Document Name	Michael Jones - National Grid USA - 1		
Comment National Grid supports the NPCC RSC Group comments. Likes 0 Dislikes 0 Response Lauren Price - American Transmission Company, LLC - 1 - MRO,RF Answer Document Name	Answer		
National Grid supports the NPCC RSC Group comments. Likes 0 Dislikes 0 Response Lauren Price - American Transmission Company, LLC - 1 - MRO,RF Answer Document Name	Document Name		
Likes 0 Dislikes 0 Response Lauren Price - American Transmission Company, LLC - 1 - MRO,RF Answer Document Name	Comment		
Dislikes 0 Response Lauren Price - American Transmission Company, LLC - 1 - MRO,RF Answer Document Name	National Grid supports the NPCC RSC Gro	up comments.	
Response Lauren Price - American Transmission Company, LLC - 1 - MRO,RF Answer Document Name	Likes 0		
Lauren Price - American Transmission Company, LLC - 1 - MRO,RF Answer Document Name	Dislikes 0		
Answer Document Name	Response		
Answer Document Name			
Document Name	Lauren Price - American Transmission C	ompany, LLC - 1 - MRO,RF	
	Answer		
Comment	Document Name		
	Comment		

ATC has the following concerns with the proposed FAC-011-4 standard.

- R3.1: Requirement R3.1 contains the term "stations" and uses an unconventional designation of "buses/stations".
 - o The NERC BES definition does not require entities to identify BES stations, which would make it problematic to use the requirement as written.
 - Additionally, "buses/stations" is an unclear designation where entities may understand that System Voltage Limits shall be created for all Facilities in a station, including both BES and non-BES Facilities in that station. We do not believe this is the intent of the SDT so this should be clarified.
 - Consider modifying R3.1 language to state "Require that BES buses have an associated System Voltage Limit except for the BES buses that may be excluded as specified in the [RC]'s SOL methodology."
- R3.2: Clarify R3.2, similar to R2 language, that "respect[ing] the Facility voltage Ratings" means determining the "applicable owner-provided Facility" voltage "Ratings to be used in operations". FAC-008-3 R2 and R3, in conjunction with the NERC "Facility Ratings" definition, requires the Generator Owners and Transmission Owners, respectively, to have voltage ratings for Facilities.

- R4.5 and a New R5.5: Requirements R4.2, R4.4, R4.5 and R5 become applicable to all TOPs through proposed FAC-014-3 R2.
 - Given the language of R4.4, which requires "instability risks" to be "identified", ATC believes the standard overreaches at R5 when it includes stability analysis within OPAs and RTAs as determined by the RC. TOP-001-3 R13 and R14 and TOP-002-4 R1 already require the TOP study SOLs in RTAs and OPAs, and inclusion of OPAs and RTAs in R5 is redundant with TOP-001-3 and TOP-002-4. The TOPs are the local experts on the stability of their systems and the R5 requirement language should not force additional stability analysis beyond TOP-001-3 and TOP-002-4 in the OPA and RTA on to a TOP if stability is not an issue for its system. ATC recommends striking "and performing Operational Planning Analysis (OPAs) and Real

A proposed revision to R5 to address this concern is the addition of a new requirement R5.5, which would read:

"R5.5 The applicability of the identified single Contingency and multiple Contingencies to its TOPs for use in determining stability limits."

Similarly, given the applicability of the model requirements stated in R4.5 to the TOPs performing stability studies under the RC SOL methodology, through FAC-014-3 R2, clarify is needed that a TOP does not need to have a model of similar scale or scope as the RC will use. Per TOP-003-3, TOPs determine what data is needed to perform their OPAs and RTAs and the scope of this data is likely a subset of the RC's data, whether covered by IRO-010-2 or proposed FAC-011-4 R4.5. The revision should make it clear that the breadth of the RC's model does not necessarily need to be replicated by the TOP.

A proposed revision to R4.5 to address this concern would be the addition of the following language to the current proposed R4.5 language:

- "... necessary to determine different types of stability limits, including applicability of the model detail to studies performed by its TOPs"
- New R4.x: The RC SOL methodology should include how "impacted" PCs and TOPs will be identified for stability SOLs. The "impacted" language appears in FAC-014-3 R4 and R5 and clarity is needed for all parties.
- R7: The second sentence of R7 should be struck as it is a redundant requirement to IRO-010-2 R1. SOL communication should be a part of the RC's data specification, which already contains a requirement regarding periodicity of communication.

R8: The requirement should contain a minimum notice provision to TOPs, such as "30 days prior to implementation". The current language would permit an RC to issue a revision the day prior to a material change in its SOL methodology, possibly impacting a TOP's compliance under FAC-014.

, ,	naterial change in its SOL methodology, possibly impacting a TOP's compliance under FAC-014.
Likes 0	
Dislikes 0	
Response	
Douglas Webb - Douglas Webb On Behal	f of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee,
Great Plains Energy - Kansas City Power	and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb
Great Plains Energy - Kansas City Power	and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light
Great Plains Energy - Kansas City Power Co., 5, 1, 3, 6; John Carlson, Great Plains	and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light
Great Plains Energy - Kansas City Power Co., 5, 1, 3, 6; John Carlson, Great Plains Answer	and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light

Likes 0	
Dislikes 0	
Response	
aurie Williams - PNM Resources - Publi	c Service Company of New Mexico - 1
Answer	
Document Name	
Comment	
	ngle entity the ability to dictate operating and effectively planning criteria. PNM believes that the ld be a joint effort including RCs, TOPs, and PAs.
	ability Coordinator, in conjunction with each of its Transmission Operations and Planning Coordinators, shall Ls (i.e., SOL Methodology) within its Reliability Coordinator Area.
	ity to dictate how an entity uses its own Facility Ratings effectively modifying FAC-008. There is no point for annot be used when operating the system. PNM recommends removal of R2 and revision of FAC-008-3 to ommon facility ratings methodology.
critical contingencies. FERC order No. 818	PNM believes that there may be legit reasons to have the UVLS settings higher than the limits for certain specifies not using UVLS for N-1; however, this requirement doesn't have that qualifier. If the SDT feels this the requirement should move under R4.6 and shall clearly specify that it is only applicable to single
PNM finds no difference between R6.1 and	R6.2.
ikes 0	
Dislikes 0	
Response	
eonard Kula - Independent Electricity S	ystem Operator - 2
Answer	
Document Name	
Comment	

- 1. FAC-11-4, Requirement R3.3 should be clear that it's only pre-contingency System Voltage Limits which should be above in-service UVLS scheme settings. When depending on these schemes, a post-contingency System Voltage Limit may fall below a UVLS set point.
- 2. FAC-11-4 Requirement R3 Part R3.4 should either be revised or removed. Identifying the lowest allowable System Voltage Limit does not make sense from the context of minimum voltage SVLs (it should be the highest SVL identified). Perhaps "lowest" could be replaced by "most restrictive".
- 3. Where FAC-11-4 Requirement R3 Part 3.7 requires coordination between adjacent RCs for SVLs the FAC-11-4 Requirement R2 and R4 are

- silent on this with respect to Facility Ratings and stability limits. The RC should also be coordinating Facility Rating and Stability SOL actions with RCs within an Interconnection where applicable and this should be spelled out in FAC-11-4.
- 4. FAC-11-4 Requirement R4.1.2 should not force Reliability Coordinators into adopting transient voltage response criteria as part of their SOL Methodology. There are effective alternative means to guard against coincidental load loss and inadvertent tripping such as employing a relay margin criterion instead. Please remove or modify the requirement to recognize viable alternatives exist.
- 5. FAC-11-4 Requirement R4.1.2 should not force Reliability Coordinators into adopting transient voltage response criteria as part of their SOL Methodology. Transient voltage criterion results should be communicated to the Reliability Coordinator as outlined in FAC-15-1 Requirement R6 for consideration.
- 6. FAC-11-4 Requirement R4.1.3 introduces the term "angular stability". Why is System damping considered separately? Angular stability consists of Transient Stability and Small Signal Stability, System damping would be part of Small Signal Stability.
- 7. FAC-11-4 Requirement R4.4 appears to ask for so much detail in the SOL Methodology (FAC-11-4 Rationale indicates enough information should be provided to duplicate the study) that it would be extremely onerous to satisfy given that the assumptions made for each operating zone of our RC area are vastly different given the common conditions and risks that exist. Detailed assumptions around instability risks, transfer levels, dispatch and system conditions are better left in study documentation pertaining to each specific zone. (Also see 5 below. We believe that there is value in sharing SOLs and associated study reports based on need/request.)
- Additionally, the phrase "instability risks are identified" is misleading and does not really contribute to the objective of the requirement/standard. We assess that the intent of R4 is to present the method for determining stability limit, not to identify risks although they are the driver for developing stability limit. If the intent of that phrase is to present the stability concerns and/or the way to address such concerns through SOL determination, then we offer the following revised wording:
- "Describe how stability limits are determined, considering levels of transfers, Load and generation dispatch, and the applicable System conditions including any changes to System topology such as Facility outages;"
- 8. FAC-11-4 Requirement R4.5 asks for a description of the critical details from other Reliability Coordinator areas necessary to determine stability limits. This is in conflict with FAC-14-3 R5 which no longer enforces that Reliability Coordinators *provide its SOLs and IROLs to those entities with a reliability need.* IRO-014-3 speaks to required information for Operating Plans, Procedures and Processes but does not address the need for critical details required for developing SOLs.
- Furthermore, obtaining these critical details from other Reliability Coordinators and verifying their impact to SOLs through study can require a great deal of time and effort. It is recommended that more than 12 months be given in order to comply with this requirement. An appropriate time would be in the order of 24 36 months.
- Obtaining these critical details would also be made much easier and the information would be much more valuable if all Reliability Coordinators (RC) were aligned in respecting the same set of contingencies and performance criterion for IROLs. For example, if an RC finds an instability issue due to a multiple contingency in a neighboring RC's footprint there's no requirement in FAC-11 and FAC-14 that supports forcing the neighbor to respect that contingency in the interest of interconnected system reliably as multiple contingencies are still left up to the RC's discretion.
- 9. FAC-11-4 Requirement R5.2 leaves the door open for any potential contingency to be considered credible and will create an unnecessary burden in attempting to show compliance. Listing other specific single contingencies that could be deemed credible would improve this requirement.
- An alternative to listing additional specific contingencies would be to revert to the existing language in FAC-11-3 Requirement R2.2 which specifies, at a minimum, which contingencies must be respected.
- 10. FAC-11-4 Requirement R6.2 is redundant with Requirement R6.1 in that a criterion is what is used to identify SOLs that are IROLs. Consider revising to combine the two sub-requirements to remove unnecessary duplication and confusion.

11.	
require substantial documentation w recommended. Furthermore, given	s to provision of their SOL Methodology to other entities. Given that the changes to the FAC-11-4 standard vork on the part of many RCs, more time should be given for compliance. At least 36 months is a there will be changes coming to the IROL requirements in this very same standard maybe the compliance ampliance deadline associated with that version of the FAC-11 standard to avoid the burden of duplicating a
Likes 0	
Dislikes 0	
Response	
Allie Gavin - Allie Gavin On Behalf of: Mid	chael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin
Answer	
Document Name	
Comment	
FAC-011-4 Requirement R2 specifically states that the RC "shall include in its SOL Methodology the method for Transmission Operators to determine the applicable owner-provided Facility Ratings to be used in operations". It goes on to identify that the method "shall address the use of common Facility Ratings between the Reliability Coordinator and the Transmission Operators in its Reliability Coordinator Area". This requirement needs to be bounded such that the RC is not specifying in its methodology how a Transmission Operator and thus a Transmission Owner is required to rate its transmission facilities, up to and including the use of real time ratings. This would determine the amount of risk a Transmission Owner is subject to for its facilities. The standard should only specify the end objective and not the process to achieve that objective. FAC-011-4 Requirement R3.2 introduces the concept of "Facility voltage Ratings". This is not a defined term and leaves room for interpretation. There is no standard that requires TO's to provide Facility Ratings for voltage. Before TOP's are required to operate to Facility Ratings for voltage there should be a requirement for TO's to provide Facility Ratings for voltage. FAC-011-4 Requirement R4 seems to be somewhat duplicative of TPL-001-4 requirements R5 and R6. Consideration should be given to coordination of these requirements. FAC-011-4 Requirement R5 includes language that requires the RC's SOL Methodology to include "the method for identifying the single Contingencies and multiple Contingencies for use in determining stability limits and performing Operational Planning Analysis (OPA's) and Real-time Assessments (RTA's)". Use of SOL's in OPA's and RTA's is covered in TOP-001 and TOP-002. The concept of requiring how SOL's should be used in OPA's and RTA's should be removed from this requirement. FAC-011-4 R7 is redundant with IRO-010-2 R1. As the SDT notes in its preface to FAC-011-4, SOLs are inputs to OPA and RTAs. As such, R1 of RO-010-2 already requires the R	
Dislikes 0 Response	
TO SPOTIO	

Gregory Campoli - New York Independent System Operator - 2	
Answer	
Document Name	

Comment

FAC-011 R3.1

We do not agree with Part 3.1 as written since it implies that all BES (i.e. each and every) buses/stations within an RC or TOP area need to have a SVL. To meet this requirement, an RC/TOP will need to determine and list a large number of System Voltage Limits (SVLs), many of which have no impact on the BES voltage performance and hence serve little or no value to the determination of SOLs and/or IROLs.

The proposed definition of SVL is:

The maximum and minimum steady

motor in the tiprity idea to maccoupitable System performance.

With this definition, we interpret that there may be more than one SVL within an RC or TOP area, and that the identified SVLs are the limiting parameters with which to assess acceptable voltage performance on an RC or TOP system and their interconnected systems. An RC or TOP may identify a handful of buses/stations within their areas to be requiring the stipulation of SVLs, while deeming it unnecessary to stipulate SVLs on other buses/stations as acceptable voltage performance can be assessed/assured by observing the stipulated SVLs.

We therefore suggest Part 3.1 be reworded as follows:

R3.1. Require the identification of the critical BES buses/stations and associated System Voltage Limits with which to assess acceptable System performance

FAC-011 R3.2

This part is not required. Observing the more restrictive of the two – SVLs and Facility voltage Ratings, is the general practice for any RCs and TOPs. If the SDT wish to spell out this requirement explicitly, we propose the following wording:

3.2 Require that the more restrictive of the System Voltage Limits and the Facility voltage Ratings at the same bus/station be respected.

FAC-011 R3.4

This part is not required since all applicable SVLs (may be more than one) identified in the proposed Part 3.1 will be observed in the determination of SOLs. Identifying the lowest allowable SVL serves little or no purpose, or can be insufficient, in the determination of SOLs.

We suggest deleting Part 3.4

FAC-011 R3.5,6,7

The overall intent of these parts is to ensure the methodology specifies the use of common SVLs by those entities that need to determine SOLs around those buses/stations for which SVLs are identified. This can be achieved by combining them into the following proposed part:

3.5. Address the use of common System Voltage Limits by all entities in the Reliability Coordinator Area and the process to coordinate the determination of System Voltage Limits between neighboring Reliability Coordinators and Transmission Operators.

FAC-011 R4.4

The phrase "instability risks are identified" is misleading and does not really contribute to the objective of the requirement/standard. We assess that the intent of R4 is to present the method for determining stability limit, not to identify risks although they are the driver for developing stability limit. If the intent of that phrase is to present the stability concerns and/or the way to address such concerns through SOL determination, then we offer the following revised wording:

4.4 Describe how stability limits are determined, considering levels of transfers, Load and generation dispatch, and the applicable System conditions including any changes to System topology such as Facility outages;

FAC-011 R5

We interpret R5 to require identification of relevant single Contingencies AND multiple Contingencies for use in determining stability limits, and in performing Operational Planning Analysis (OPAs) and Real time Assessments (RTAs), and any Planning Coordinator identified contingency events for use in determining stability limits. As such, and considering the umbrella wording in R5 and that Parts 5.1 to 5.3 essentially cover all contingency events, we do not see the need for Parts 5.1, 5.2 and 5.3. To add clarity, we propose R5 be revised, to include Part 5.4, as follows:

R5 Each Reliability Coordinator shall include in its SOL Methodology the method for identifying the single Contingencies and multiple Contingencies for use in determining stability limits, and in performing Operational Plans Analyses (OPAs) and Real etitine released from the Considering the Contingency events provided by the Planning Coordinator in accordance with FAC equiver the R6 to identify the Contingencies for use in determining stability limits.

Note: ERCOT does not support the response to Q6

Likes 0

Dislikes 0

Response

Richard Vine - California ISO - 2

Answer

Document Name

Comment

The California ISO supports the comments of the ISO/RTO Council Standards Review Committee

Likes 0

Dislikes 0

Response

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed

Answer		
Document Name		
Comment		
regarding the way the use of UVLS and UFI requirements give good flexibility to the RC requirements (SVLs and limited use of UFL complimentary multiple contingencies. Since	ach to the new standards for the establishment of SOLs. However, we do have an important concern LS in the establishment of stability limits was incorporated in the FAC-011-4 requirements. Although the in identifying the set of contingencies applicable for SOL determination, they also impose performance S/UVLS) that do not make any distinction between the mandatory single contingencies and the ethe RC has flexibility to identify the relevant contingencies beyond the minimum requirements from R5.1.1, ince requirements for the allowed use of mitigation actions.	
details for SVL and not for Facility Ratings? whole standard. R3.2 is redundant with the	equirements R3.X for System Voltage Limits is a burden without added benefit to reliability. Why so much R3.5-3.7 are not needed. If coordination is an issue, it should be addressed in a single requirement for the application of FR in R2. R3.3 is an issue that should be addressed with the allowed used of UVLS under requirements. Different SVLs may be used for different contingencies, not just N-1. R3.4 is redundant with	
3- R4.2 is a redundant cross-reference with 4.1 and R5 and does not bring any benefit to the remaining of the standard. R4.3 also is redundant since the RC has to describe how stability limits are established per R4 whether or not multiple TOPs are involved.		
	s, it is understood that the RC has full flexibility to determine the appropriate multiple contingencies for its bosed standard should allow the same flexibility for the performance requirements associated with those I UFLS.	
5- Although we appreciate the standard's flor minimum expected performance as in TPL (exibility regarding the stability performance requirements in R4.1, there seems to be a lack of guidelines and (no mention of Cascading, instability, etc.).	
Likes 0		
Dislikes 0		
Response		
Janis Weddle - Public Utility District No.	1 of Chelan County - 6, Group Name Chelan PUD	
Answer		
Document Name		
Comment		

Comment 1: It is a common concept in industry that the system should be operated as it is planned. The TPL-001-4 standard is one of the main regulatory drivers to the planning of the system, while the FAC standards regarding SOLs are important to the operation. While not possible to align the

two standards entirely, there are some features of the TPL standard which may have merit for the FAC-011 standard revision which have not been addressed in the draft of the proposed revision of FAC-011-4. These include:

- 1. Voltage Criteria (TPL-001-4 R5)
- 2. Instability Criteria (TPL-001-4 R6)
- 3. Division of responsibilities (TPL-001-4 R7)

The Voltage criteria is present in both FAC-011-3 and TPL-001-4. While TPL-001-4 voltage criteria requirement includes steady state, post-contingency deviation, and transient voltage response, the proposed FAC-011-3 criteria has additional performance metrics. This presents a risk where the system may not be operated as it was planned, because the criteria proposed in FAC-014-3 could be more conservative than the criteria required by TPL-001-4. The Standard Drafting Team should take this opportunity to consider aligning the operational criteria in the proposed FAC-011-3 with that of TPL-001-4. CHPD recognizes that due to the variety of unknowns encountered in real-time, operational criteria should have more flexibility than system planning.

Comment 2: CHPD is also concerned by the requirements in R3.6. and R3.7. regarding coordination of these system limits. This is not well addressed in the Standard Drafting Material as to the intent and scope of the proposed coordination. If the expectation is simply to share, post, or distribute limits, then that would be a helpful clarification. If the expectation is to conduct additional coordination studies involving multiple parties and the RC, then it is clearly a greater body of work and should be addressed further and clarified by the Standard Drafting Team as to the nature of these expectations.

CHPD is in favor of the removal of R3.6. and R3.7. altogether, because the coordination of these is already essentially performed through the use of the OPA and RTA.

Comment 3: The continued use of margins in FAC-011-4 (also found in FAC-011-3) is another instance of mis-alignment between TPL-001-4 and FAC-011-3. CHPD recognizes that there is value to include an assessment of margin in the operational realm, but is also aware that this is a difference in the way the system is planned vs. operated, and in some instances may result in the system being operated to support a particular margin that wasn't necessarily planned through TPL-001-4 or other planning standards. CHPD recognizes that due to the variety of unknowns encountered in real-time, operational criteria should have more flexibility than system planning.

Comment 4: Regarding the voltage criteria proposed in FAC-011-4 R4, there are a number of concerns.

- 1. The use of the term 'steady-state voltage stability' in 4.1.1. is confusing. Steady state analysis is different than stability analysis. Please clarify this term. If this is the feature described in the 2003 blackout report, this would be the assessment of reactive power support.
- 2. Angular stability criteria is a new metric to the FAC-011 standard; this concept is discussed to some extent in the 2003 blackout report as well. It is assumed that this is the analog to the FAC-011-3 requirement R1.2.4 "The system demonstrates *transient*, *dynamic*, and voltage stability" (emphasis added). CHPD would prefer the transient and dynamic language from FAC-011-3 to be maintained, rather than 'angular'. The system damping criteria in 4.1.4. and the transient voltage response in 4.1.2 could be also included as part of the angular (transient/dynamic) criteria, and does not need to be specifically enumerated.

If the Standard Drafting Team feels prescriptive requirements are required over performance based requirements, CHPD believes that this requirement could be simplified to something similar to "The Reliability Coordinator shall have voltage reactive margin criteria" and "The

Reliability Coordinator shall have sta	ability criteria for a) transient voltage response, and b) system damping"
Comment 5: CHPD would also like to see a R6:	requirement for a definition of System Instability in the RC SOL methodology, analogous to the TPL-001-4
	and Planning Coordinator shall define and document, within their Planning Assessment, the criteria or System instability for conditions such as Cascading, voltage instability, or uncontrolled islanding."
	nate to incorporate into the proposed FAC-011-4, with the Transmission Planner and Planning Coordinator or. This is particularly important since the Reliability Coordinator is to identify IROLs, which are these types of
Comment 6: Requirement in FAC-011-3 R3 definition of System Voltage Limit – "The ma System performance."	3.4 – "Identify the lowest allowable System Voltage Limit;" seems duplicative or redundant to the proposed aximum and <i>minimum</i> steady
The System Voltage Limit, in itself, should b	e the minimum allowable system voltage.
language stating that SOLs shall not exceed	state thermal performance in the requirements for the Reliability Coordinator SOL methodology, nor associated Facility Ratings for thermal ratings (as found in the old FAC-010-3 R1.2). CHPD strongly add language supporting the operation within thermal limits to the proposed FAC-011-4 document, possibly and voltage criteria.
Likes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Auth	nority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority
Answer	
Document Name	
Comment	
Transmission Operators develop Facility Ra communicated to the RC. One can assume	ransmission Operators determine stability limits or the RC. Based on R2 and R3, it is clear that the tings and System Voltage Limits based on the RC methodology. Based on R7, it says SOLs are this includes the stability limits as well, but R4 could be spelled out as a TOP task to develop stability limits sen for the RC to determine stability limits in parallel to the TOP). It should be the TOP developing all of the

SOLs and communicating them to the RC.	The RC should only drive the methodology and determine which of the provided SOLs qualify as IROLs.
Likes 0	
Dislikes 0	
Response	
Municipal Power Agency, 6, 4, 3, 5; Joe N	ick On Behalf of: Carol Chinn, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida McKinney, Florida Municipal Power Agency, 6, 4, 3, 5; Ken Simmons, Gainesville Regional Utilities, 1, 3; Richard Montgomery, Florida Municipal Power Agency, 6, 4, 3, 5; Tom Reedy, Florida Municipal oup Name FMPA
Answer	
Document Name	
Comment	
better coordination between the PC and the analysis practices within the RC's footprint.	oduced to FAC-011-4 for the RC's SOL methodology, such as found in FAC-008-3 R5. This will provide for RC, improve the effectiveness of the RC's Stability assessment, and allow consideration of best Stability
list of contingencies, or are all entities perfo TOP to use the same extensive list of continuationally, as currently worded R5 require	rforming OPAs and RTAs" as used in R5 is intending. Are just the RC's OPAs and RTAs required to use this rming OPAs and RTAs within the RC footprint required to use this list? It does not make sense for every agencies, since they may not have a need to model the System beyond their immediate TOP area. Ses Stability analysis to be run on all contingencies that qualify as P1 events under TPL-001-4, which would very little beneficial insight. The ability to apply engineering judgement to select those events that are
expected to result in more severe System in FMPA sees the use of the term "normal clean problematic. Breaker failure schemes meet	aring" (lowercase, but note that the capitalized, defined term is used in the bulleted list) in 5.1.1 as both the definition of Delayed Fault Clearing and the definition of Normal Clearing as they are currently ker failure be included when determining stability limits? If not, FMPA recommends changing "with normal
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Southwest Power Po	ol, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group
Answer	
Document Name	
Comment	

The SPP Standard Review Group has a concern in reference to the drafting team intents for Requirement R2. From our perspective, this proposed language may suggest that the RC will receive the authority to tell the Transmission Owner how to determine their Facility Ratings. We would ask that

the drafting team provides more clarity on the intent for this Requirement.

The SPP Standard Review Group has a concern that the drafting team has potentially created a new term by adding the term "voltage" between Facility Ratings. We recommend that the drafting team uses the proposed phrase "voltage Facility Ratings."

The SPP Standards Review Group has a concern that the drafting team may have caused confusion by not including the actual FAC-011-3 Standard in the posted material. From our perspective, this creates an inconsistency and disconnection on what the drafting teams intents are for this project. For future reference, we would suggest the drafting team include all pertinent documentation to help provide clarity and demonstrate consistency on what their intents and goals are for the project.

The SPP Standards Review Group has a concern pertaining to the language in Requirement 6 Subpart 6.2. There is a confusion on which term "violating" or "Exceedance" should be used in the Subpart language. From our perspective, the drafting team has put a lot of emphasis on the term "Exceedance" as they have developed a definition for the term "SOL Exceedance" and we feel that the term "Exceedance" should be referenced in the language to promote consistency with the intents of the drafting team.

Likes 0	
Dislikes 0	
Response	
sean erickson - Western Area Power Adr	ministration - 1
Answer	
Document Name	

Comment

The language in Requirement R3 Part 3.2 that refers to "Facility voltage Ratings" is problematic. Splitting a NERC-defined term (Facility Ratings) with voltage isn't a good practice. Suggested language: "the maximum and minimum voltage Facility Ratings".

WAPA has a concern regarding the wording for FAC-011-4 R4 and R5 and the linkage between.

As written R4 implies required Stability assessments in all OPAs and RTAs.

- **R4.** Each Reliability Coordinator shall include in its SOL Methodology the method for determining the stability limits to be used in operations. The method shall:
- {C}**4.1.**
- {C}4.2. Require that stability limits are established to meet the criteria specified in Part 4.1 for the Contingencies identified in Requirement R5.
- R5. Each Reliability Coordinator shall include in its SOL Methodology the method for

identifying the single Contingencies and multiple Contingencies for use in determining stability limits and performing Operational Planning Analysis (OPAs) and Real -time Assessments (RTAs). The method shall include:

WAPA understands that was not the intent of the SDT and suggests this minor modification:	
4.2. Require that <i>identified</i> stability limits meet the criteria specified in Part 4.1 for the Contingencies identified in Requirement R5 <i>for OPAs and RTAs</i> . (Or)	
	stablished to meet the criteria specified in Part 4.1 for the Contingencies identified in Requirement R5. And d a R5.5 (as initially suggested by the MRO-NSRF with WAPA's modification)
A proposed revision to R5 to address this concern is the addition of a new requirement R5.5, which would read: "R5.5 The applicability of the identified single Contingency and multiple Contingencies as agreed to by its TOPs for use in determining stability limits."	
Lastly, it appears "additional" is missing from Requirement 5.3	
5.3. Any additional types of multiple Continuous	ngency events identified for use in determining
stability limits, or for use in performing OPA	s and RTAs.
Without it, R5.3 is redundant to the body of	R5.
Likes 0	
Dislikes 0	
Response	
Anthony Jablonski - ReliabilityFirst - 10	
Answer	
Document Name	
Comment	
Even though ReliabilityFirst agrees with related to the Violation Severity Levels s	the changes in the standard, ReliabilityFirst provides the following comments for consideration ections:
Violation Severity Levels	

i. Requirement o vol	
a. The VSL for Requirement R8 references Part 8.4 but there is no Part 8.4 in the standard. ReliabilityFirst believes that the timing piece is now incorporated into the main R8 Requirement and suggest the reference to Part 8.4 be removed from the properties.	
Likes 0	
Dislikes 0	
Response	
Shivaz Chopra - New York Power Authority - 1,3,5,6	
Answer	
Document Name	
Comment	
Supporting NPCC comments	
Likes 0	
Dislikes 0	
Response	
Daniel Grinkevich - Con Ed - Consolidated Edison Co. of New York - 1	
Answer	
Document Name	
Comment	
We support the ISO RTO Council Comments.	
Likes 0	
Dislikes 0	
Response	
Terri Pyle - OGE Energy - Oklahoma Gas and Electric Co 1	
Answer	
Document Name	
Comment	
With regard to the proposed Requirement R2, OGE believes that the proposed language could be mistakenly interpreted as giving the Reliability	

Coordinator the discretion to impose unacce clarity on the intent for this requirement.	eptable Facility Ratings to Transmission Operators. We would ask that the drafting team provides more
Likes 0	
Dislikes 0	
Response	
Sing Tay - Sing Tay On Behalf of: John R	Rhea, OGE Energy - Oklahoma Gas and Electric Co., 3, 1, 6, 5; - Sing Tay
Answer	
Document Name	
Comment	
	22, OGE believes that the proposed language could be mistakenly interpreted as giving the Reliability eptable Facility Ratings to Transmission Operators. We would ask that the drafting team provides more
Likes 0	
Dislikes 0	
Response	
Scott Downey - Peak Reliability - 1	
Answer	
Document Name	
Comment	
requirements for Contingencies more sever Contingencies is often more stringent than to Contingencies. Accordingly, some RC's only may not screen such severe Contingencies	contain a subpart that requires the RC's SOL Methodology to include a description of the performance e than the single Contingencies listed in part 5.1.1. In operations, the operating criteria for single that of more severe Contingencies such as breaker failure Contingencies or common structure y examine these more sever Contingencies for instability, Cascading, or uncontrolled separation, and they for thermal or voltage exceedances as described in the proposed definition of SOL Exceedance. The SDT he minimum performance requirements for Contingencies more severe than those described in subpart
Likes 0	
Dislikes 0	
Response	
Michael Cruz-Montes - CenterPoint Energ	gy Houston Electric, LLC - 1 - Texas RE

Answer	
Document Name	
Comment	
	22, CenterPoint Energy believes that the proposed language could be mistakenly interpreted as giving the ose unacceptable Facility Ratings to Transmission Operators. CenterPoint suggests the following language
	n its SOL Methodology a mutually agreeable method for Transmission Operators to determine the applicable drFapម៉ាង្គេវស្វាន់នេះខ្លែន to
	26.2, the existing legacy language uses the word "violating" in reference to an exceedance of an SOL that ecommends the SDT revise the wording so that there is no negative connotation to the context of the
CenterPoint Energy suggests the following l	anguage for the proposed Requirement R6.2:
R6.2 Criteria for determining when an SOL	exceedance qualifies as an IROL and criteria for developing any associated IROL TV."
ikes 0	
Dislikes 0	
Response	
Preston Walker - PJM Interconnection, L	.L.C 2 - SERC,RF
Answer	
Document Name	
Comment	
	RC SAR related to Project 2015-09 identified the need "to address the issues identified in the FAC PRRs The proposed FAC-011-4 does not appear to have addressed the consistent application of IROL and 11-3.
ikes 3	PSEG - PSEG Energy Resources and Trade LLC, 6, Barton Karla; PSEG - Public Service Electric and Gas Co., 3, Mueller Jeffrey; PSEG - Public Service Electric and Gas Co., 1, Smith Joseph
Dislikes 0	
Response	
leil Swearingen - Salt River Project - 1,3	,5,6 - WECC
Answer	
Oocument Name	
Comment	

	I supports how the proposed changes generally reduce redundancy and provide clarity in communications. urther linking the planning and operational limits. SRP also has some recommendations for the SDT:
In FAC-011-4 R1, SRP recommends retain	ing the phrase "documented methodology".
In FAC-011-4 4.4, SRP recommends requir	ring a process for acknowledgement of new/changing stability limits by operational personnel.
Likes 0	
Dislikes 0	
Response	
Donald Hargrove - OGE Energy - Oklaho	ma Gas and Electric Co 3
Answer	
Document Name	
Comment	
	R2, OGE believes that the proposed language could be mistakenly interpreted as giving the Reliability eptable Facility Ratings to Transmission Operators. We would ask that the drafting team provides more
Likes 1	Tay Sing On Behalf of: John Rhea, OGE Energy - Oklahoma Gas and Electric Co., 3, 1, 6, 5;
Dislikes 0	
Response	
John Seelke - LS Power Transmission, L	LC - 1
Answer	
Document Name	v4 LSPT Q7 attachment SOL, SOL Exceedance comments.docx
Comment	
proposed changes to R6 of proposed FAC-	ints regarding the definition of "SOL Exceedance." In response to question 7, separate attached comments 011-4 that are related to recommended changes in the SDT's proposed SOL Exceedance definition. Those estion. Numbered paragraph 5 explains the recommended changes to R6.
Likes 0	
Dislikes 0	
Response	
Mike Smith - Manitoba Hydro - 1, Group	Name Manitoba Hydro

Answer	
Document Name	
Comment	
contingencies as define by P1-P7 events in 015-1. It could be that the Planning Assessr	JFLS in the establishment of stability limits, which is acceptable for all single contingencies and multiple Table 1 of TPL-001-4. However, R5.4 requires consideration of contingency events by the PC in R6 of FACment identified Cascading following an extreme event even with UFLS included. It's unclear whether the RC There should be limits placed on the scope of R6 of FAC-015-1 to P1-P7 events to allow the exclusion in
Likes 0	
Dislikes 0	
Response	
Pamela Hunter - Southern Company - So	uthern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company
Answer	
Document Name	
Comment	
	ification as to which entities are using the same rating, for example: RC & TOP? or RC & all TOPs for the sunder the same RC using the same ratings methodology?
The intent of Proposed R5.4 is unclear. We believe the Planning Coordinator should provide the established stability limit and the method by which the RC should assess the system against established stability limits. Maybe an example would help the understanding.	
Proposed R8.1 needs to define under what Coordinator's SOL Methodology.	circumstances a nonadjacent Reliability Coordinator would have a reliability-related need for the Reliability
ikes 0	
Dislikes 0	
Response	
Faz Kasraie - Faz Kasraie On Behalf of: N	Mike Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie
Answer	
Document Name	
Comment	

	1, we will be voting "No" because of our problems with FAC-015. These changes to FAC-011, FAC-014 approving the changes to some standards and not others could create a reliability gap.
Likes 0	
Dislikes 0	
Response	
Cynthia Kneisl - Midwest Reliability Organization - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF	
Answer	
Document Name	

Comment

The first sentence of FAC-011-4 R2 should be clarified as follows: "Each Reliability Coordinator shall include in its SOL Methodology the method for Transmission Operators to determine which owner epiroopherations."

direction makes it more obvious that the SOL Methodology only determines which owner-provided ratings are applicable for use in operations.

FAC-011-4 R3.1: Requirement R3.1 contains the term "stations" and uses an unconventional designation of "buses/stations."

- The NERC BES definition does not require entities to identify BES stations, which would make it problematic to use the requirement as written.
- Additionally, "buses/stations" is an unclear designation where entities may understand that System Voltage Limits shall be created for all Facilities in a station, including both BES and non-BES Facilities in that station. We do not believe this is the intent of the SDT so this should be clarified.
- Consider modifying R3.1 language to state "Require that BES buses have an associated System Voltage Limit except for the BES buses that may be excluded as specified in the RC's SOL methodology."

R4.5 and a new R5.5: Requirements R4.2, R4.4, R4.5, and R5 become applicable to all TOPs through proposed FAC-014-3 R2.

• Given the language of R4.4, which requires "instability risks" to be "identified," ATC believes the standard overreaches at R5 when it includes stability analysis within OPAs and RTAs as determined by the RC. TOP-001-3 R13 and R14 and TOP-002-4 R1 already require the TOP study SOLs in RTAs and OPAs, and inclusion of OPAs and RTAs in R5 is redundant with TOP-001-3 and TOP-002-4. The TOPs are the local experts on the stability of their systems and the R5 requirement language should not force additional stability analysis beyond TOP-001-3 and TOP-002-4 in the OPA and RTA on to a TOP if stability is not an issue for its system. ATC recommends striking "and performing Operational Planning Analysis (OPAs) and Real

That Reserve to be "identified," ATC believes the standard overreaches at R5 when it includes stability analysis expenses and RTA and RTA on to a TOP study stability risks." According to the RTA of the R

A proposed revision to R5 to address this concern is the addition of a new requirement R5.5, which would read: "R5.5 The applicability of the identified single Contingency and multiple Contingencies to its TOPs for use in determining stability limits."

Similarly, given the applicability of the model requirements stated in R4.5 to the TOPs performing stability studies under the RC SOL methodology, through FAC-014-3 R2, clarity is needed that a TOP does not need to have a model of similar scale or scope as the RC will use. Per TOP-003-3, TOPs determine what data is needed to perform their OPAs and RTAs and the scope of this data is likely a subset of the RC's data, whether covered by IRO-010-2 or proposed FAC-011-4 R4.5. The revision should make it clear that the breadth of the RC's model does not necessarily need to be replicated by the TOP.

A proposed revision to R4.5 to address this concern would be the addition of the following language to the current proposed R4.5 language: "... necessary to determine different types of stability limits, including applicability of the model detail to studies performed by its TOPs."

FAC-011-4 R3.2: the term used is "Facility voltage Ratings." The defined term is "Facility Ratings." Remove voltage or reword to say "Facility Ratings."

criteria for developing any associated IROL	Tv."
FAC-011-4 R7 is redundant with IRO-010-2 R1. As the SDT notes in its preface to FAC-011-4, SOLs are inputs to OPA and RTAs. As such, R1 of IRO-010-2 already requires the RC to maintain a documented specification of the data necessary for it to perform its Operational Planning Analyses, Real-time monitoring and Real-time Assessments. This requirement included requirements for periodicity of providing the data. As such, R7 of proposed FAC-011-4 is redundant and should be deleted from the proposed standard.	
FAC-011-4 R8 does not specify how far in advance of the effective date of the SOL Methodology the RC must provide its SOL Methodology to other entities. With other standard requirements that Transmission Operators develop their SOLs in accordance with the RCs SOL Methodology, changes that would require a new determination of SOLs based upon the new methodology could take some time to develop. It is recommended that the RC provide its methodology at least 30 days prior to the effective date to give entities an opportunity to evaluate changes to the methodology and implement any changes necessary to their SOLs prior to the effective date of the new SOL Methodology. Without sufficient time a registered entity could find themselves in violation of standard requirements due to lack of time to make changes to SOLs according to the new methodology.	
Likes 0	
Dislikes 0	
Response	
Aaron Cavanaugh - Bonneville Power Ad	ministration - 1,3,5,6 - WECC
Answer	
Document Name	
Comment	
None	
Likes 0	
Dislikes 0	
Response	
Kayleigh Wilkerson - Lincoln Electric Sys	stem - 5
Answer	
Document Name	
Comment	
LES is concerned that Requirement R2 does not provide adequate assurance that the Reliability Coordinator will respect the Facility Ratings established by the TO, or the TO's FAC-008 methodology. As written, the language is vague and appears to allow the RC to determine the Facility Ratings and voltage ratings that a TO must use. Additionally, based on the NERC definition of Facility Rating, there is a potential conflict between System Voltage Limits and Facility Ratings as both can utilize voltage ratings. At minimum, consideration should be given to potential inconsistencies	

FAC-011-4 R6.2: The term "violating" relates to previous Standard. Suggest: "Criteria for determining when violating an SOL qualifies as an IROL and

for voltage."

that may develop between FAC-011-4, FAC	C-008-3 and the definition of Facility Rating as a result of the project.
Likes 0	
Dislikes 0	
Response	
Ginette Lacasse - Seattle City Light - 1,3,	,4,5,6 - WECC, Group Name Seattle City Light Ballot Body
Answer	
Document Name	
Comment	
	11, we are voting "No" because of our concerns with FAC-015. These changes to FAC-011, FAC-014 and roving the changes to some standards and not others could create a reliability gap.
Likes 0	
Dislikes 0	
Response	
Wendy Center - U.S. Bureau of Reclamat	ion - 5
Answer	
Document Name	
Comment	
None	
Likes 0	
Dislikes 0	
Response	
Amy Casuscelli - Amy Casuscelli On Bel	half of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli
Answer	
Document Name	
Comment	

FAC-011-3 R2 and R3 add an additional translation layer on top of FAC-008 which already defines the determination of Facility Ratings. Could this additional translation allow for the RC to impose ratings and risk that the TO owning the facility is not willing to accept? An example is forcing the use of

dynamic ratings.	
exist local UVLS schemes that have been prior outage (N-1-1) conditions. Effectively	tem Voltage Limit to be higher than the UVLS setting nullifies the ability to use local UVLS schemes. There blanned to operate at the emergency low voltage limit to protect local load and meet TPL requirements for disallowing the use of local UVLS schemes to achieve acceptable system performance was likely not the guage to address this unintended consequence. Requiring the operating limit to be more restrictive does not lanning limits should be more restrictive.
Likes 0	
Dislikes 0	
Response	
Steven Mavis - Edison International - So	uthern California Edison Company - 1
Answer	
Document Name	
Comment	
Please refer to comments submitted by Rol	pert Blackney on behalf of Southern California Edison.
Likes 0	
Dislikes 0	
Response	

entities have the responsibility for establishing Interconnection Reliability Operating Limits (IROLs) [the RC], System Operating Limits (SOLs) [the TOP] and stability limits that impact more than one TOP in its Reliability Coordinator Area [the RC] into proposed Requirements R1, R2, and R4, respectively. Do you agree with the proposed changes? If not, please explain.		
Aaron Cavanaugh - Bonneville Power Ad	lministration - 1,3,5,6 - WECC	
Answer	No	
Document Name		
Comment		
BPA supports R1 and R2. However, BPA cand agree upon the stability limits, not the F	does not agree with breaking out R4. It should be the impacted TOPs' responsibility to coordinate, establish RC's.	
Likes 0		
Dislikes 0		
Response		
Amy Casuscelli - Amy Casuscelli On Bel	nalf of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli	
Answer	No	
Document Name		
Comment		
Xcel Energy feels that R2 should be expanded so that the RC has a role for SOLs that impact more than one TOP, similar to R4. The alternative would be for R4 to be expanded beyond "stability limit" to be more general SOL that impacts more than one TOP. An example would be an interface/path/flowgate that is thermal limited below its Facility Rating due to other thermal (or voltage) limited transmission facilities in multiple TOPs. This concern would likely be addressed if the revised SOL definition is approved and is effective simultaneously with the FAC standards - we recognize that the revised SOL definition makes it clear that the MW limit for an interface/path/flowgate is an SOL only if it is a stability limit.		
Likes 0		
Dislikes 0		
Response		
Cynthia Kneisl - Midwest Reliability Orga	anization - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF	
Answer	No	
Document Name		
Comment		
The NSRF is not convinced the RC's have	the experience necessary to determine stability limits where the limits impact more than one TOP. Although	

	as responsible, historically this has been done by TOPs cooperating with each other to determine the limits. The the nuances associated with all of their footprint.
Likes 0	
Dislikes 0	
Response	
Janis Weddle - Public Utility District N	No. 1 of Chelan County - 6, Group Name Chelan PUD
Answer	No
Document Name	
Comment	
This is a helpful proposed clarification. H	However, in the definition of IROL from the NERC glossary an IROL is:
"A System Operating Limit that, if violate the Bulk Electric System."	ed, could lead to instability, uncontrolled separation, or Cascading outages that adversely impact the reliability of
will it be able to determine whether or no the duty to determine which SOLs are IF	SOL is first, before determining whether the SOL is an IROL. If the RC is not required to calculate SOLs, how of the SOLs are IROLs? CHPD would propose that both TOPs and the RC calculate SOLs, but only the RC has ROLs. This would be consistent with the current FAC-014-2 approach and ensure that the RC is calculating IROLs. If the RC is not calculating SOLs, there is the potential risk that the RC could miss an SOL which should
Likes 0	
Dislikes 0	
Response	
Municipal Power Agency, 6, 4, 3, 5; Jo	ormick On Behalf of: Carol Chinn, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida De McKinney, Florida Municipal Power Agency, 6, 4, 3, 5; Ken Simmons, Gainesville Regional Utilities, 1, es, 3; Richard Montgomery, Florida Municipal Power Agency, 6, 4, 3, 5; Tom Reedy, Florida Municipal, Group Name FMPA
Answer	No
Document Name	
Comment	
FAC-014-3 is needed. First, it is not clear	ndicate which entities have the responsibility for establishing SOLs and IROLs, but believes additional clarity in ar who has the responsibility to run the stability studies, or how often to run them. Another concern is that mutually exclusive. Are TOPs precluded from identifying IROLs?
Likes 0	
Dislikes 0	

Response		
Ruida Shu - Northeast Power Cool	rdinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed	
Answer	No	
Document Name		
Comment		
impacted. This should be addressed	on't see the need to specifically require the RC to establish stability limits per R4 when more than one TOP is through the determination of SOL/IROLs per R1 and R2 in FAC-014 and the requirement that the methodology r determining stability limits. There is an unnecessary redundancy.	
Likes 0		
Dislikes 0		
Response		
Leonard Kula - Independent Electr	icity System Operator - 2	
Answer	No	
Document Name		
Comment		
Without stating requirements for perf matter remains unclear.	ormance criteria and assessment methodology for what SOLs qualify as an IROL, the roles of each entity in this	
Likes 0		
Dislikes 0		
Response		
Laurie Williams - PNM Resources	- Public Service Company of New Mexico - 1	
Answer	No	
Document Name		
Comment		
PNMR agrees with R1 and R2 but pr	oposes the following language for R4:	
	inction with the impacted Transmission Operators, shall establish stability limits to be used in operations when the ssion Operator in its Reliability Coordinator Area in accordance with its SOL Methodology.	
Likes 0		

Dislikes 0		
Response		
Lauren Price - American Transmission C	ompany, LLC - 1 - MRO,RF	
Answer	No	
Document Name		
Comment		
ATC believes these changes are acceptable if the SDT adds a new requirement R4.x to FAC-011-4 as explained above in our comments to question #6 where we recommend a new requirement that requires the RC to identify how they will determine "impact[ed]" entities.		
Likes 0		
Dislikes 0		
Response		
Michael Jones - National Grid USA - 1		
Answer	No	
Document Name		
Comment		
National Grid supports the NPCC RSC Gro	up comments.	
Likes 0		
Dislikes 0		
Response		
Thomas Foltz - AEP - 5		
Answer	Yes	
Document Name		
Comment		
While AEP does not object to R1 as proposed, we believe that Transmission Operators should be afforded opportunity to provide input into the process, even if not specifically designated within the standard.		
Likes 0		

Dislikes 0	
Response	
Scott Downey - Peak Reliability - 1	
Answer	Yes
Document Name	
Comment	
stability limits to be used in operations wher with its SOL Methodology." Peak interprets	One point of clarification. Proposed requirement R4 states, "Each Reliability Coordinator shall establish the limit impacts more than one Transmission Operator in its Reliability Coordinator Area in accordance this language to allow the RC the flexibility to either calculate this type of stability limit itself (i.e., the RC P-calculated stability limit as the "established" stability limit, provided that the RC and the impacted TOPs interpretation is accurate.
Likes 0	
Dislikes 0	
Response	
Shivaz Chopra - New York Power Author	ity - 1,3,5,6
Answer	Yes
Document Name	
Comment	
Supporting NPCC comments	
Likes 0	
Dislikes 0	
Response	
Colby Bellville - Duke Energy - 1,3,5,6 - F	RCC,SERC,RF, Group Name Duke Energy
Answer	Yes
Document Name	
Comment	
While Duke Energy agrees with the proposa	al of dividing the existing R1 into three requirements, we request the SDT to consider whether there is a

R2. Each Transmission Operator shall establish SOLs (including the subset of SOLs that are IROLs) for its portion of the Reliability Coordinator Area

reliability gap in allowing only the RC to establish IROLs. We recommend the drafting team consider the following:

consistent with its Reliability Coordinator's S	SOL Methodology.
Likes 0	
Dislikes 0	
Response	
Allie Gavin - Allie Gavin On Behalf of: Mi	chael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin
Answer	Yes
Document Name	
Comment	
components in SOL determination, than this the latitude to determine the amount of risk	o usurp the Transmission Owners rights in determining how Facility Ratings are determined, which are major is proposal is acceptable. If the RC is not limited, then this is not acceptable as the RC should not be given a Transmission Owner will accept through setting their methodology in determining an SOL, specifically a pecify the end objective and not the process to achieve that objective.
Likes 0	
Dislikes 0	
Response	
John Merrell - Tacoma Public Utilities (Ta	acoma, WA) - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ginette Lacasse - Seattle City Light - 1,3	4,5,6 - WECC, Group Name Seattle City Light Ballot Body
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0	
Response	
Robert Blackney - Edison Electric Institu	ute - 1,3,5,6 - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michelle Amarantos - APS - Arizona Pub	lic Service Co 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Steven Powell - Trans Bay Cable LLC - N	IA - Not Applicable - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kayleigh Wilkerson - Lincoln Electric Sy	
Answer	202

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Wendy Center - U.S. Bureau of Reclamat	tion - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Pamela Hunter - Southern Company - So	outhern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mike Smith - Manitoba Hydro - 1, Group Name Manitoba Hydro	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	Response	
Donald Hargrove - OGE Energy - Oklaho	ma Gas and Electric Co 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Neil Swearingen - Salt River Project - 1,3	6,5,6 - WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Michael Cruz-Montes - CenterPoint Ener		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
	Mike Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie	
Answer	Yes	
Document Name		

Comment		
Likes 0		
Dislikes 0		
Response		
John Seelke - LS Power Transmission, L	LC - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Sing Tay - Sing Tay On Behalf of: John R	thea, OGE Energy - Oklahoma Gas and Electric Co., 3, 1, 6, 5; - Sing Tay	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Preston Walker - PJM Interconnection, L.	L.C 2 - SERC,RF	
Answer	Yes	
Document Name		
Comment		
Likes 3	PSEG - PSEG Energy Resources and Trade LLC, 6, Barton Karla; PSEG - Public Service Electric and Gas Co., 3, Mueller Jeffrey; PSEG - Public Service Electric and Gas Co., 1, Smith Joseph	
Dislikes 0		

Response		
Julie Hall - Entergy - 6		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Bridget Silvia - Sempra - San Diego Gas	and Electric - 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Sarah Gasienica - NiSource - Northern Ir	ndiana Public Service Co 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mark Riley - Associated Electric Coopera	ative, Inc 1, Group Name AECI & Member G&Ts	
Answer	Yes	
Document Name		

Comment		
Likes 0		
Dislikes 0		
Response		
Quintin Lee - Eversource Energy - 1, Group Name Eversource Group		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
sean erickson - Western Area Power Adr	ministration - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Shannon Mickens - Southwest Power Pool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Dennis Chastain - Tennessee Valley Authority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
James Grimshaw - CPS Energy - 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kevin Salsbury - Berkshire Hathaway - N	IV Energy - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Gregory Campoli - New York Independer	Gregory Campoli - New York Independent System Operator - 2	
Answer	Yes	
Document Name		
Comment		

Likes 0		
Dislikes 0		
Response		
Great Plains Energy - Kansas City Power	of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Gladys DeLaO - CPS Energy - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Elizabeth Axson - Electric Reliability Council of Texas, Inc 2		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Municipal Utility District, 4, 1, 5, 6, 3; Jar	of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento nie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of acramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1,
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Brian Van Gheem - ACES Power Marketi	ng - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Richard Vine - California ISO - 2	
Answer	
Document Name	
Comment	
The California ISO supports the comments	of the ISO/RTO Council Standards Review Committee
Likes 0	
Dislikes 0	
Response	

and Transmission Service Providers (TS exclude the TSPs from that communicate Requirement R4, and MOD-030-3, Requir Capabilities (TFCs), along with supporting	R5.2 requires the Transmission Operator (TOP) to provide its SOLs to its Reliability Coordinator (RC) Ps) that share its portion of the RC Area. The SDT is proposing in Requirement R3 of FAC-014-3 to ion chain. Other requirements in existing standards (MOD-028-2, Requirement R7, MOD-029-2a, rement R2.6) require the TOP to provide the Total Transfer Capabilities (TTCs), Total Flowgate in ginformation and assumptions to TSPs. Because the TTCs and TFCs already reflect the impact(s) of the existing language unnecessary. Do you agree with the proposed change? If not, please explain.
Sarah Gasienica - NiSource - Northern In	idiana Public Service Co 5
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Allie Gavin - Allie Gavin On Behalf of: Mi	chael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin
Answer	Yes
Document Name	
Comment	
ITC agrees with the exclusion of TSPs from	Requirement R3 of FAC-014-3.
Likes 0	
Dislikes 0	
Response	
Shivaz Chopra - New York Power Author	ity - 1,3,5,6
Answer	Yes
Document Name	
Comment	
Supporting NPCC comments	
Likes 0	
Dislikes 0	

Response	
Scott Downey - Peak Reliability -	1
Answer	Yes
Document Name	
Comment	
Peak agrees with excluding the TSF	Ps from the SOL communications path.
Likes 0	
Dislikes 0	
Response	
Cynthia Kneisl - Midwest Reliabili	ty Organization - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF
Answer	Yes
Document Name	
Comment	
are a necessary input for OPA and I	from the notification requirements. The remainder of the requirement is also redundant with IRO-010-2 R1. As SOLs RTA, the communication of them is required in the RC's data specification. As a result, including them here is ne RC needs to know about changes to SOLs. The mechanism to notify them already exists in the data specification
Likes 0	
Dislikes 0	
Response	
Aaron Cavanaugh - Bonneville Po	ower Administration - 1,3,5,6 - WECC
Answer	Yes
Document Name	
Comment	
BPA supports NERC urging FERC t Transmission System Capability).	o adopt Docket Number RM14-7-000, Comments of NERC in Response to NOPR MOD-001-2 (Available
Likes 0	
Dislikes 0	

Response		
Thomas Foltz - AEP - 5		
Answer	Yes	
Document Name		
Comment		
AEP believes the proposed changes would	be beneficial and provide clarity.	
Likes 0		
Dislikes 0		
Response		
Brian Van Gheem - ACES Power Marketi	ng - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Michael Jones - National Grid USA - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Joe Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento

Municipal Utility District, 4, 1, 5, 6, 3; Jan Northern California, 1; Nicole Looney, Sa 5, 6, 3; - Joe Tarantino	nie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of acramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Lauren Price - American Transmission C	company, LLC - 1 - MRO,RF
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Elizabeth Axson - Electric Reliability Cou	uncil of Texas, Inc 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gladys DeLaO - CPS Energy - 1	
Answer	Yes
Document Name	
Comment	

Likes 0		
Dislikes 0		
Response		
Great Plains Energy - Kansas City Power	If of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Laurie Williams - PNM Resources - Publi	c Service Company of New Mexico - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Gregory Campoli - New York Independent System Operator - 2		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Kevin Salsbury - Berkshire Hathaway - N	Kevin Salsbury - Berkshire Hathaway - NV Energy - 5		
Answer	Yes		
Document Name			
Comment			
Likes 0			
Dislikes 0			
Response			
James Grimshaw - CPS Energy - 3			
Answer	Yes		
Document Name			
Comment			
Likes 0			
Dislikes 0			
Response			
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed		
Answer	Yes		
Document Name			
Comment			
Likes 0			
Dislikes 0			
Response			
Dennis Chastain - Tennessee Valley Aut	hority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority		
Answer	Yes		
Document Name			
Comment			

Likes 0		
Dislikes 0		
Response		
Shannon Mickens - Southwest Power Po	ol, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
sean erickson - Western Area Power Adn	ninistration - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Quintin Lee - Eversource Energy - 1, Group Name Eversource Group		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Mark Riley - Associated Electric Cooper	ative, Inc 1, Group Name AECI & Member G&Ts
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Municipal Power Agency, 6, 4, 3, 5; Joe	nick On Behalf of: Carol Chinn, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida McKinney, Florida Municipal Power Agency, 6, 4, 3, 5; Ken Simmons, Gainesville Regional Utilities, 1, , 3; Richard Montgomery, Florida Municipal Power Agency, 6, 4, 3, 5; Tom Reedy, Florida Municipal roup Name FMPA
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Janis Weddle - Public Utility District No.	1 of Chelan County - 6, Group Name Chelan PUD
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Bridget Silvia - Sempra - San Diego Gas	and Electric - 3
Answer	Yes
Document Name	

Comment	
Likes 0	
Dislikes 0	
Response	
Colby Bellville - Duke Energy - 1,3,5,6 - F	RCC,SERC,RF, Group Name Duke Energy
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Julie Hall - Entergy - 6	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Preston Walker - PJM Interconnection, L	.L.C 2 - SERC,RF
Answer	Yes
Document Name	
Comment	
Likes 3	PSEG - PSEG Energy Resources and Trade LLC, 6, Barton Karla; PSEG - Public Service Electric and Gas Co., 3, Mueller Jeffrey; PSEG - Public Service Electric and Gas Co., 1, Smith Joseph
Dislikes 0	

Response		
John Seelke - LS Power Transmission, LLC - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Faz Kasraie - Faz Kasraie On Behalf of: I	Mike Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Michael Cruz-Montes - CenterPoint Ener		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Neil Swearingen - Salt River Project - 1,3	5,5,6 - WECC	
Answer	Yes	
Document Name		

Comment		
Likes 0		
Dislikes 0		
Response		
Donald Hargrove - OGE Energy - Oklaho	ma Gas and Electric Co 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mike Smith - Manitoba Hydro - 1, Group I	Name Manitoba Hydro	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Pamela Hunter - Southern Company - Southern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Wendy Center - U.S. Bureau of Reclamation - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kayleigh Wilkerson - Lincoln Electric Sys	stem - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Steven Powell - Trans Bay Cable LLC - N	A - Not Applicable - WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Amy Casuscelli - Amy Casuscelli On Behalf of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli		
Answer	Yes	
Document Name		
Comment		

Likes 0		
Dislikes 0		
Response		
Michelle Amarantos - APS - Arizona Publ	ic Service Co 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Robert Blackney - Edison Electric Institu	te - 1,3,5,6 - WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Ginette Lacasse - Seattle City Light - 1,3,4,5,6 - WECC, Group Name Seattle City Light Ballot Body		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

John Merrell - Tacoma Public Utilities (Tacoma, WA) - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Richard Vine - California ISO - 2		
Answer		
Document Name		
Comment		
The California ISO supports the comments of the ISO/RTO Council Standards Review Committee		
Likes 0		
Dislikes 0		
Response		

9. The SDT relocated the reliability objectives of existing Requirement R6 of FAC-014-2 into Requirement R6 of proposed Reliability Standard FAC-015-1 such that all Planning Coordinator and Transmission Planner responsibilities will be housed within one standard. Do you agree with the proposed change? If not, please explain.	
Aaron Cavanaugh - Bonneville Power Ad	dministration - 1,3,5,6 - WECC
Answer	No
Document Name	
Comment	
standards. The annual system assessmen	ning standard. The objective could be better accomplished by moving the requirement to existing planning t is required to be provided to the RC per NERC standard IRO-017-1. The RC is in a better position to area if instability or uncontrolled islanding is identified in the system assessment.
Likes 0	
Dislikes 0	
Response	
Mike Smith - Manitoba Hydro - 1, Group	Name Manitoba Hydro
Answer	No
Document Name	
Comment	
	Coordinator responsibilities do not need to be in FAC-014-2. Manitoba Hydro would prefer if the PL-001 that the requirements be housed in one of those standards rather than create a new standard.
Likes 0	
Dislikes 0	
Response	
John Seelke - LS Power Transmission, LLC - 1	
Answer	No
Document Name	
Comment	
See the response to Q16.	
Likes 0	

Dislikes 0		
Response		
Allie Gavin - Allie Gavin On Behalf of: Mi	chael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin	
Answer	No	
Document Name		
Comment		
ITC agrees with the retirement of FAC-010 and modifications to FAC-014-4 however does not believe that FAC-015 is necessary.		
Likes 0		
Dislikes 0		
Response		
Laurie Williams - PNM Resources - Publi	c Service Company of New Mexico - 1	
Answer	No	
Document Name		
Comment		
PNMR believes that this requirement should be placed in TPL-001 since it is related to the Planning Assessment.		
Likes 0		
Dislikes 0		
Response		
Robert Blackney - Edison Electric Institute - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		
SCE finds the new SOL/IROL construct to be clearer and more useful. As the drafting team points out, Operations Time Horizon SOLs are not necessarily included in Planning Assessments required by TPL-001-4. SCE supports the reliability objectives established by FAC-015-1 and the relocation of these objectives from the in-effect FAC-014 to the proposed FAC-015.		
Likes 0		
Dislikes 0		

Response		
Scott Downey - Peak Reliability - 1		
Answer	Yes	
Document Name		
Comment		
Peak supports having the planners' requirer	ments contained in one standard.	
Likes 0		
Dislikes 0		
Response		
Shivaz Chopra - New York Power Author	ity - 1,3,5,6	
Answer	Yes	
Document Name		
Comment		
Supporting NPCC comments		
Likes 0		
Dislikes 0		
Response		
Thomas Foltz - AEP - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
John Merrell - Tacoma Public Utilities (Tacoma, WA) - 1		

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ginette Lacasse - Seattle City Light - 1,3,	.4,5,6 - WECC, Group Name Seattle City Light Ballot Body
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michelle Amarantos - APS - Arizona Pub	lic Service Co 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Amy Casuscelli - Amy Casuscelli On Behalf of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli	
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0	
Response	
Steven Powell - Trans Bay Cable LLC - N	IA - Not Applicable - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kayleigh Wilkerson - Lincoln Electric Sy	stem - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Wendy Center - U.S. Bureau of Reclamat	tion - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
	outhern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company
Answer	Yes

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Donald Hargrove - OGE Energy - Oklaho	ma Gas and Electric Co 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Neil Swearingen - Salt River Project - 1,3	5,5,6 - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michael Cruz-Montes - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Cynthia Kneisl - Midwest Reliability Orga	anization - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Faz Kasraie - Faz Kasraie On Behalf of: I	Mike Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Preston Walker - PJM Interconnection, L	L.C 2 - SERC,RF
Answer	Yes
Document Name	
Comment	
Likes 3	PSEG - PSEG Energy Resources and Trade LLC, 6, Barton Karla; PSEG - Public Service Electric and Gas Co., 3, Mueller Jeffrey; PSEG - Public Service Electric and Gas Co., 1, Smith Joseph
Dislikes 0	
Response	
Julie Hall - Entergy - 6	
Answer	Yes

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Colby Bellville - Duke Energy - 1,3,5,6 - F	RCC,SERC,RF, Group Name Duke Energy
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Bridget Silvia - Sempra - San Diego Gas	and Electric - 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Sarah Gasienica - NiSource - Northern Indiana Public Service Co 5	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Janis Weddle - Public Utility D	District No. 1 of Chelan County - 6, Group Name Chelan PUD
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Municipal Power Agency, 6, 4	on McCormick On Behalf of: Carol Chinn, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida , 3, 5; Joe McKinney, Florida Municipal Power Agency, 6, 4, 3, 5; Ken Simmons, Gainesville Regional Utilities, 1, y Services, 3; Richard Montgomery, Florida Municipal Power Agency, 6, 4, 3, 5; Tom Reedy, Florida Municipal Cormick, Group Name FMPA
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mark Riley - Associated Election	ric Cooperative, Inc 1, Group Name AECI & Member G&Ts
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Quintin Lee - Eversource Ene	rgy - 1, Group Name Eversource Group

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
sean erickson - Western Area Power Adı	ministration - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Southwest Power Po	ool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
David Jendras - Ameren - Ameren Services - 3	
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Aut	hority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
James Grimshaw - CPS Energy - 3	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kevin Salsbury - Berkshire Hathaway - NV Energy - 5	
Answer	Yes

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gregory Campoli - New York Independer	nt System Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Leonard Kula - Independent Electricity S	System Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Great Plains Energy - Kansas City Powe	If of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, r and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light s Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0		
Response		
Gladys DeLaO - CPS Energy - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Elizabeth Axson - Electric Reliability Council of Texas, Inc 2		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Lauren Price - American Transmission Company, LLC - 1 - MRO,RF		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Joe Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility Di

5, 6, 3; - Joe Tarantino		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Michael Jones - National Grid USA - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Brian Van Gheem - ACES Power Marketing - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Richard Vine - California ISO - 2		
Answer		
Document Name		
Comment		

The California ISO supports the comments of the ISO/RTO Council Standards Review Committee	
Likes 0	
Dislikes 0	
Response	

10. If you have any other comments that	you haven't already provided in response to questions 7-9, please provide them here.
Lauren Price - American Transmission C	ompany, LLC - 1 - MRO,RF
Answer	
Document Name	
Comment	
	on proposed FAC-014-3: nent R3 since the content of this requirement is already covered by NERC standard IRO-010-2 R1 (i.e. this e RC to perform its OPA and RTA as covered by R1.1).
R4 and R5.2 through R5.4: The term "impac	cts" and "impacted" are used without definition. See ATC's comments to question #6 above about the need c-011-4 to ensure how impacted parties are identified is addressed in the RC's SOL methodology.
Likes 0	
Dislikes 0	
Response	
Michael Jones - National Grid USA - 1	
Answer	
Document Name	
Comment	
National Grid supports the NPCC RSC Grou	up comments.
Likes 0	
Dislikes 0	
Response	
Brian Van Gheem - ACES Power Marketin	ng - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators
Answer	
Document Name	
Comment	

1. We believe it will be more efficient for RCs to make their SOLs available to impacted entities through automated mechanisms, such as an online database portal, rather than providing the information as proposed. The proposed expectation would require direct communication between the RC and the impacted entities that would be documented through electronic communications or voice recordings. This would be a compliance burden on all entities involved. Moreover, this approach could introduce a natural latency when the RC provides the SOL

information to external entities. This latency could impact a PC or TP who could have partially completed a Planning Assessment, only to find that the SOL data they used is outdated and that the assessment will need to be restarted. By pushing this information to an on-line portal, impacted entities can then pull the most current data set for monitoring and assessment purposes. We believe this change would convert the requirement to a more risk-based performance approach that shifts the focus of risk to the availability of the automated mechanisms.

- 2. We observe that part 5.4 is the only portion of this requirement that expects the RC to provide updated information to external entities. We ask the SDT to clarify this discrepancy in the other external entities identified in the requirement.
- 3. The proposed standard appears to miss the possible coordination between RC and an adjacent RC, particularly in the instance that an impacted TOP from an adjacent Reliability Coordinator Area would need information related to SOLs. There currently is no obligation listed under Requirement 5 that captures this instance.
- 4. We ask the SDT to move the IROL-related critical information to Requirement R1 where the RC is obligated to establish the IROL. The references listed under Requirement R5 are confusing, as they only pertain to the PC.
- 5. For part 5.4, we believe the RC should provide the value of the stability limit or IROL, as identified in part 5.2.1, to an impacted TOP within its Reliability Coordinator Area.
- 6. We believe Requirements R1 and R6 should be combined, as there is no expected timeframe identified when a RC is required to provide a list of generation or transmission Facilities that are critical to the derivation of the IROL. Transmission Owners ad Generation Owners could have compliance implications if the information is not provided in a timely fashion. The provision of this information should be done as soon as the IROL is established.

Likes 0	
Dislikes 0	
Response	
Elizabeth Axson - Electric Reliability Cou	ıncil of Texas, Inc 2
Answer	
Document Name	
Comment	
Comments: ERCOT provides the following	additional feedback:
FAC-014:	
	to R4 to simplify the language and to avoid the possible interpretation that the RC's authority (or duty) to TOPs would only be triggered in the event one or more TOPs has preliminarily established such a stability
R4. Each Reliability Coordinator shall establish <i>any</i> stability limit to be used in operations <i>in accordance with its SOL Methodology if that</i> limit impacts more than one Transmission Operator <i>in that</i> Reliability Coordinator Area.	
****Please refer to the attached comment form for redlined language.	
Likes 0	
Dislikes 0	

Response	
Leonard Kula - Independent Electricity S	ystem Operator - 2
Answer	
Document Name	
Comment	
IRO-014-3 speaks to required inform required for developing SOLs such	er enforces that Reliability Coordinators <i>provide its SOLs and IROLs to those entities with a reliability need.</i> mation for Operating Plans, Procedures and Processes but does not address the need for critical details as study reports and other related operating documentation. This information is necessary in order to satisfy standards where there's potential impact to neighboring RC areas.
	tails from other Reliability Coordinators and verifying their impact to SOLs through study can require a great mended that more than 12 months be given in order to comply with this requirement. An appropriate time inths.
must be considered in Operations. Planning Assessment then that conthe Interconnection to recognize a respecting an IROL and operating a language should be expanded to responsible solutions.	In the one requirement tying identification of multiple contingencies in the Planning Horizon to those that This requirement had ensured that if instability as a result of a multiple contingency was identified in the tingency should be deemed credible. It was the best vehicle to use to influence another RC/TOP area within multiple contingency within its area if shown to impact other areas. In the interest of both assistance in a more reliable interconnected system some language to this effect should remain in FAC-14-3. The flect that multiples may be identified in the Operations Horizon as well through studies performed in deriving OPA and RTA. Restricting the language to the planning horizon is insufficient as the planning horizon em configurations realized in operations.
Likes 0	
Dislikes 0	
Response	
Great Plains Energy - Kansas City Power	If of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb
Answer	
Document Name	
Comment	
None.	
Likes 0	
Dislikes 0	
Response	

Ruida Shu - Northeast Power Coordination	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed
Answer	
Document Name	
Comment	
word "critical". The corresponding list of Fact With lack of clarity and guidelines on the int	114-2 "Facilities that are critical to the derivation of the IROL" causes a lot of confusion as to the mean of the cilities is referenced by other standards (e.g. CIP-002) with a major impact on compliance to those standards. ent regarding the "critical Facilities" that should be included per this requirement. The addition of "stability now understood that Facilities impacting SOLs stability limits not considered IROLs should be included on e and rationale behind those requirements.
Likes 0	
Dislikes 0	
Response	
Richard Vine - California ISO - 2	
Answer	
Document Name	
Comment	
The California ISO supports the comments	of the ISO/RTO Council Standards Review Committee
Likes 0	
Dislikes 0	
Response	
Allie Gavin - Allie Gavin On Behalf of: Mi	chael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin
Answer	
Document Name	
Comment	
	03-3 R1. This is input data necessary to perform OPA and RTA and so the communication of that data is include it in FAC-014-2 would be redundant and unnecessary.
Likes 0	
Dislikes 0	

Response	
Dennis Chastain - Tennessee Valley Aut	hority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority
Answer	
Document Name	
Comment	
	e responsibility of the TOP, not the RC. TOPs should have greater familiarity with the studies and model its. The RC should only be involved where there is a discrepancy or question involving multiple TOPs having
Likes 0	
Dislikes 0	
Response	
Janis Weddle - Public Utility District No.	1 of Chelan County - 6, Group Name Chelan PUD
Answer	
Document Name	
Comment	

Comment 1: The use of the term 'stability limit' in the proposed FAC-014-3 R4, R5.2 and R5.3 is ambiguous. In the definition of 'Reliable Operation' in the NERC glossary of terms, it lists:

"Operating the elements of the [Bulk-Power System] within equipment and electric system thermal, voltage, and stability limits... "

And from Final Report on the August 14, 2003 Blackout in the United States and Canada: Causes and Recommendations, page 8:

There are two types of stability limits: (1) Voltage stability limits... (2) Power (angle) stability limits...

Clearly there are multiple meanings of stability limits. CHPD requests the Standard Drafting Team to use additional language to clarify which 'stability limits' are meant here. The definition of Stability Limit, as a capitalized term in the NERC glossary of terms, unfortunately defines the Capitalized term 'Stability Limit' by the lowercase term 'stability limit', so of itself is not very useful as to identifying whether this is a thermal, voltage, or transient / dynamic type of phenomenon.

Comment 2: CHPD would recommend the following language to be used in the proposed FAC-014-3 R5.1. and 5.2 in place of, or in addition to the 'once every twelve calendar months' language. 'or within 30 calendar days (or a later date if specified by the requester)' to be consistent with the construct found in FAC-008-3 R8.2. Given the importance of SOLs (FAC-014-3 R5.1) and IROLs (FAC-014-3 R5.2), utilities may need ratings in a much more operationally appropriate timeframe than 12 calendar months.

Comment 3: In FAC-014-3 R5.5, the RC is required to provide SOLs for its RC area. However, the RC is not actually required to calculate SOLs (only IROLs). Therefore, any SOLs the RC has would be provided by the respective Transmission Operators in the RC area, as specified under FAC-014-3 R3. The Standards Drafting Team may consider revising R5.5. to have Transmission Operators provide SOLs to other Transmission Operators, rather than the RC providing these SOLs.

Comment 4: It would be useful to the PC for FAC-014-3 R5.2 to also include a sub-requirement for the RC to provide the PC with a description of the conditions where the IROL has been observed or was expected to be observed. For example, 'in Winter with heavy south to north transfers', etc. This way, the Planning Coordinator can better test its models to assess whether it can duplicate these conditions in the planning horizon.		
Comment 5: The language in FAC-014-3 R6 'Each Reliability Coordinator that is impacted by an IROL" is unclear by the meaning of 'that is impacted by an IROL'. It is thought that this probably could be removed from the requirement and the function of the requirement would be unaffected.		
	mission Operator to provide SOLs in R3 is likely duplicative to requirements in IRO-010-2, R1. This bility Coordinator the authority to request this data. We are already providing these to the RC under IRO-data in accordance with IRO-010-2 R1.	
Likes 0		
Dislikes 0		
Response		
Terri Pyle - OGE Energy - Oklahoma Gas	and Electric Co 1	
Answer		
Document Name		
Comment		
multiple entities during the SOL/SOL Excee Exceedance definition should not incorporate	FAC-014-3. However, we disagree with the current proposed definition of SOL Exceedance. As indicated by dance comment period, an exceedance can only occur if it happens in Real-time and therefore the SOL te the concept of predicted exceedances. It is inappropriate to approve a NERC standard without a clear pact the standard. OGE remains concerned with unintended impacts of separating the standard and the ins.	
Likes 0		
Dislikes 0		
Response		
Shivaz Chopra - New York Power Author	ity - 1,3,5,6	
Answer		
Document Name		
Comment		
Supporting NPCC comments		
Likes 0		
Dislikes 0		
Response		

Anthony Jablonski - ReliabilityFirst - 10	
Answer	
Document Name	
Comment	
Even though ReliabilityFirst agrees with related to the Violation Severity Levels so	the changes in the standard, ReliabilityFirst provides the following comments for consideration ections:
Violation Severity Levels	
i. Requirement 3 VSL	
a. The VSL for Requir "the periodicity at w	ement R3 is in disconnect with the language in Requirement R3. The VSL for Requirement R3 references hich the
Methodology." Rec	tion" and Requirement R3 simply talks about "in accordance to the Reliability Coordinator's SOL uirement R7 in FAC-011-1 only notes, "The method shall address the periodicity of SOL communication." mmends structuring the VSLs as follows (this is an example of the "lower VSL"):
1. The Transn calendar da	nission Operator provided its SOLs to its Reliability Coordinator, but was late by less than or equal to 10 sys.
ii. Requirement R6 VSL	
Coordinator impact	VSL for Requirement R6 ("The Reliability Coordinator with an established IROL, or the Reliability ed by a neighboring Reliability Coordinator IROL") does not match the language of Requirement R6. mmends the beginning of the VSL state:
1. Reliability C	Coordinator that is impacted by an IROL did not provide
Likes 0	
Dislikes 0	
Response	
Sing Tay - Sing Tay On Behalf of: John R	hea, OGE Energy - Oklahoma Gas and Electric Co., 3, 1, 6, 5; - Sing Tay
Answer	
Document Name	
Comment	
OCE agrees with the proposed shapes in I	EAC 014.3. However, we disagree with the current proposed definition of SQL Exceedance. As indicated by

OGE agrees with the proposed changes in FAC-014-3. However, we disagree with the current proposed definition of SOL Exceedance. As indicated by multiple entities during the SOL/SOL Exceedance comment period, an exceedance can only occur if it happens in Real-time and therefore the SOL Exceedance definition should not incorporate the concept of predicted exceedances. It is inappropriate to approve a NERC standard without a clear

understanding of how the definitions will improposed SOL & SOL Exceedance definition	pact the standard. OGE remains concerned with unintended impacts of separating the standard and the ns.
Likes 0	
Dislikes 0	
Response	
John Seelke - LS Power Transmission, L	LC - 1
Answer	
Document Name	
Comment	
for computing these is an Operational Plant SOLs and IROLs to PCs (R5.1) and other in	4-3 are computed per the RC's SOL Methodology required per R1 in FAC-011-4. The longest time horizon hing Analysis, which addresses next-day operations. The SDT has not explained why RCs must provide information (see R5.2) and least once every 12 months. Remember, the longest time frame for this r, requiring RCs to communicate their SOL Methodology to PCs and TPs per R8.2 in FAC-011-4 has some operator's tools to planners.
Likes 0	
Dislikes 0	
Response	
Donald Hargrove - OGE Energy - Oklaho	ma Gas and Electric Co 3
Answer	
Document Name	
Comment	
multiple entities during the SOL/SOL Excee Exceedance definition should not incorpora	FAC-014-3. However, we disagree with the current proposed definition of SOL Exceedance. As indicated by edance comment period, an exceedance can only occur if it happens in Real-time and therefore the SOL te the concept of predicted exceedances. It is inappropriate to approve a NERC standard without a clear pact the standard. OGE remains concerned with unintended impacts of separating the standard and the ons.
Likes 0	
Dislikes 0	
Response	
Neil Swearingen - Salt River Project - 1,3	,5,6 - WECC

Пооролю	
Response	
Dislikes 0	
Likes 0	
While we agree with the changes to FAC-01	4, we will be voting "No" because of our problems with FAC-015. These changes to FAC-010, FAC-011, whole, so approving the changes to some standards and not others could create a reliability gap.
Comment	
Document Name	
Answer	
Faz Kasraie - Faz Kasraie On Behalf of: N	like Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie
Response	
Dislikes 0	
Likes 0	
under this requirement. To include it in FAC be deleted.	is input data necessary to perform OPA and RTA and so the communication of that data is already covered -014-2 would be redundant and unnecessary. As such, it is recommended that part 5.5 of R5 of FAC-014-2
Comment	
Document Name	
Answer	
Cynthia Kneisl - Midwest Reliability Orga	nization - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF
Response	
Dislikes 0	
Likes 0	inged in near real-time.
	stablish stability limits in advance of real-time (as allowed) may not have a mechanism to respond with when the RC communicates a newly emerged limit in near real-time. SRP recommends requiring the RC to
Comment	
Document Name	
Answer	

Pamela Hunter - Southern Company - Sou	thern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company
Answer	
Document Name	
Comment	
We suggest the intent of Proposed R6 be furt 'derivation' to 'determination' of the limit.	ther clarified. In particular, the meaning of the word 'derivation' is ambiguous. We recommend changing
Likes 0	
Dislikes 0	
Response	
Wendy Center - U.S. Bureau of Reclamatic	on - 5
Answer	
Document Name	
Comment	
None	
Likes 0	
Dislikes 0	
Response	
Ginette Lacasse - Seattle City Light - 1,3,4	1,5,6 - WECC, Group Name Seattle City Light Ballot Body
Answer	
Document Name	
Comment	
	4, we are voting "No" because of our Concerns with FAC-015. These changes to FAC-010, FAC-011, FAC-so approving the changes to some standards and not others could create a reliability gap
Likes 0	
Dislikes 0	
Response	
Kayleigh Wilkerson - Lincoln Electric Syst	tem - 5

Answer		
Document Name		
Comment		
Recommend R5.5 be deleted. This is input	data needed to perform OPA and RTA per the data specification developed in TOP-003-3 R1.	
Likes 0		
Dislikes 0		
Response		
Aaron Cavanaugh - Bonneville Power Ad	Iministration - 1,3,5,6 - WECC	
Answer		
Document Name		
Comment		
None		
Likes 0		
Dislikes 0		
Response		
Steven Mavis - Edison International - Sou	uthern California Edison Company - 1	
Answer		
Document Name		
Comment		
Please refer to comments submitted by Robert Blackney on behalf of Southern California Edison.		
Likes 0		
Dislikes 0		
Response		
Robert Blackney - Edison Electric Institu	te - 1,3,5,6 - WECC	
Answer		
Document Name		

Comment	
	ifically Planning Time Horizon SOLs create duplicative and unessential work. The proposed new construct is ROL reliability standards with best practices and the latest revision of TPL-001.
Likes 0	
Dislikes 0	
Response	
Amy Casuscelli - Amy Casuscelli On Bel	half of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli
Answer	
Document Name	
Comment	
	e revised SOL definition is vital to ensure clear and accurate interpretation of FAC-011 and FAC-014 hat the revised SOL definition be included in the implementation plan for the revised FAC-011 and FAC-014 late.
Likes 0	
Dislikes 0	
Response	
Thomas Foltz - AEP - 5	
Answer	
Document Name	
Comment	
	, and could be interpreted inconsistently across RE footprints as well as within RE footprints. For example, lly limiting or more limiting than" be considered "in accordance with?"
Likes 0	
Dislikes 0	
Response	

Assessments for the Near-Term Transm	iple that Facility Ratings, System steady-state voltage limits, and stability criteria used in Planning ission Planning Horizon should be more conservative/restrictive/limiting than those found in (or s SOL Methodology, allowing for justified exceptions. Do you agree with this principle? If not, please	
Ginette Lacasse - Seattle City Light - 1,3	,4,5,6 - WECC, Group Name Seattle City Light Ballot Body	
Answer	No	
Document Name		
Comment		
RC/TOP, we agree with the principle, but fin	ual to or more conservative" rather than just "more conservative" than the Facility Ratings used by the nd the language too confusing and disagree with the implementation.	
The phrase in R1 "If the Planning Coordinator uses less limiting Facility Ratings than the Facility Ratings established in accordance with its Reliability Coordinator's SOL Methodology" is confusing since Facility Ratings are established by the TO in accordance with FAC-008, not by the RC or TOP in accordance with the SOL Methodology. If the intent is to ensure that, for example, the PC/TP does not plan to 15-minute emergency ratings if the TOP uses only 30-minute emergency ratings in operations, then it should make that more explicit. The requirements seem to imply that there could be more than one set of Facility Ratings for a given Facility (not true) and that Facility Ratings are established in accordance with the RC SOL Methodology (also not true).		
	015 are related to what limits should be used in planning assessments, therefore the requirements should be parate standard defining the limits that should be used in TPL studies adds unnecessary complication.	
Likes 0		
Dislikes 0		
Response		
Mike Smith - Manitoba Hydro - 1, Group	Name Manitoba Hydro	
Answer	No	
Document Name		
Comment		
the RC for facilities located within the Plann some cases, for example contingency selections	by the Transmission Owner, system steady-state voltage limits and stability criteria should be the same as sing Coordinator area with some minor exceptions. The RC's SOL methodology may be less conservative in ction. The RC will be mainly focusing on single contingencies while the PC will focus on single and multiple logy may be less conservative in terms of transmission service (i.e. considers non-firm use). In that case the PC did not.	
Likes 0		
Dislikes 0		

Response		
Pamela Hunter - Southern Company - So	outhern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company	
Answer	No	
Document Name		
Comment		
As stated in the current posted draft of FAC Horizon) should be <i>equal to</i> or more conse	-015-1 R1, it (i.e., Facility Ratings used in its Planning Assessment of the Near-Term Transmission Planning rvative/restrictive/limiting.	
Likes 0		
Dislikes 0		
Response		
Faz Kasraie - Faz Kasraie On Behalf of:	Mike Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie	
Answer	No	
Document Name		
Comment		
Assuming that the question should say "equal to or more conservative" rather than just "more conservative" than the Facility Ratings used by the RC/TOP, we agree with the principle, but find the language too confusing and disagree with the implementation.		
The phrase in R1 "If the Planning Coordinator uses less limiting Facility Ratings than the Facility Ratings established in accordance with its Reliability Coordinator's SOL Methodology" is confusing since Facility Ratings are established by the TO in accordance with FAC-008, not by the RC or TOP in accordance with the SOL Methodology. If the intent is to ensure that, for example, the PC/TP does not plan to 15-minute emergency ratings if the TOP uses only 30-minute emergency ratings in operations, then it should make that more explicit. The requirements seem to imply that there could be more than one set of Facility Ratings for a given Facility (not true) and that Facility Ratings are established in accordance with the RC SOL Methodology (also not true).		
In addition, all of the requirements in FAC-015 are related to what limits should be used in planning assessments, therefore the requirements should be included in the TPL standard. Having a separate standard defining the limits that should be used in TPL studies adds unnecessary complication.		
Likes 0		
Dislikes 0		
Response		

John Seelke - LS Power Transmission, L	.LC - 1
Answer	No
Document Name	
Comment	
See the response to Q16.	
Likes 0	
Dislikes 0	
Response	
Preston Walker - PJM Interconnection, L	.L.C 2 - SERC,RF
Answer	No
Document Name	
Comment	
language within the proposed language FA	(with a corresponding "YES" response) if it stated "should be equally or more", which agrees with the actual C-015-1 Requirements R1, R2 & R3. The language contained within this question goes beyond that it is conservative/restrictive/limiting might require a justified exception. PSEG - PSEG Energy Resources and Trade LLC, 6, Barton Karla; PSEG - Public Service Electric and Gas Co., 3, Mueller Jeffrey; PSEG - Public Service Electric and Gas Co., 1, Smith Joseph
Dislikes 0	
Response	
Bridget Silvia - Sempra - San Diego Gas	and Electric - 3
Answer	No
Document Name	
Comment	
Need consistency.	
Likes 0	
Dislikes 0	
Response	

	RCC,SERC,RF, Group Name Duke Energy
Answer	No
Document Name	
Comment	
Assessments for the Near-Term Transmissi language, the drafting team is implying that justification. We believe that it can be appro	ple that Facility Ratings, System steady-state voltage limits, and stability criteria used in Planning on Planning Horizon should be more conservative than those found in the RC's SOL Methodology. With this it is not appropriate for Planners to plan and Operators to operate from the same or equal ratings without priate for Planning and Operations to use the same/equal ratings, and should not require justification to do der modifying the existing language to reflect that the use of the same/equal rating can be appropriate and
Likes 0	
Dislikes 0	
Response	
Daniel Grinkevich - Con Ed - Consolidate	ed Edison Co. of New York - 1
Answer	No
Document Name	
Comment	
stability criteria as the system can be operating system steady state voltage limits, and stabe the Operators with unique operating challen—that are beyond what's studied in TPL-001 limits for a particular substation as real time Operators also have at their disposal Dynam assumed in the TPL-001 Planning Assessm. The definition of System Operating Limit stappescribed operating criteria for a specified stable.	equire a more conservative/restrictive/limiting Facility Ratings, System steady-state voltage limits, and sted beyond planning criteria (ex. beyond N-1/-1). Some operating margin is added into facility ratings, ility criteria as System Operators are operating the system 24 hours for 365 days in a year which provides ages – various conditions (outages, generation commitment, contingencies that are beyond planning criteria) I Planning Assessment. System Operators may have, for example, pre-contingency low/high 'proxy' voltage voltage collapse (knee of the curve) calculations are not performed for each operating state. System inc Feeder Ratings which vary the capability of a feeder; which could be higher of lower than what's nent. Intes: "The value (such as MW, Mvar, amperes, frequency or volts) that satisfies the most limiting of the system configuration to ensure operation within acceptable reliability criteria." FAC-015 would introduce system configurations into TPL-001 Planning Assessment.
Likes 0	
Dislikes 0	
Response	
Julie Hall - Entergy - 6	

Answer	No
Document Name	
Comment	
	ould be more conservative, which Entergy does not agree with, the limit should be equally or more limiting. wording of the question since the proposed standard uses the word "equally".
Likes 0	
Dislikes 0	
Response	
Terri Pyle - OGE Energy - Oklahoma Gas	and Electric Co 1
Answer	No
Document Name	
Comment	
Please refer to the comments submitted by	the SPP Standards Review Group.
Likes 0	
Dislikes 0	
Response	
Janis Weddle - Public Utility District No.	1 of Chelan County - 6, Group Name Chelan PUD
Answer	No
Document Name	
Comment	

Comment 1: Facility Ratings should be provided by the Transmission Owner and Generation Owner to both the Planning Coordinator and Reliability Coordinator. Facility Ratings are what they are – from our experience, the trouble comes in with assumptions about ambient conditions.

In CHPD's experience, the greatest challenge between planning and operations is that we utilize dynamic ambient-temperature based ratings. In real-time, there is a very wide band of potential transmission line ratings based on the ambient temperature, just as there are a wide range of ambient temperature conditions throughout the day. Therefore, in real-time operations we use many ratings throughout the day.

In long term system planning and operations planning, it is clearly inappropriate to run all the studies through all ratings sets. Our practice is to use what we as a utility have felt is appropriate for the expected ambient conditions, in coordination with our neighbors.

Similarly, while it is recognized that there are differences between the planning and operational voltage criteria, CHPD has not experienced great difficulty in operating its system, even with the different planning and operational criteria.

responsibility to adequately plan the system responsibility to plan and operate the system	prescriptive requirements in order to accomplish this reliability objective. It is the Planning Coordinator's for growth, capacity, and integration of service in the Planning Horizon; it is the Reliability Coordinator's in the Operations Horizon. Given these different responsibilities, we feel it is not appropriate for one entity ach performs a different system function in a different system timeframe.
Operating Limits (SOLs) are the result of stuconditions and events, Facility Ratings are rate Transmission Owner and Generator Owner Coordinator and Planning Coordinator. Und in the spirit of what was previously in FAC-0	Limit (SOL)' from FAC-014-2 has now been replaced with 'Facility Ratings' in FAC-015-1. While System <i>udies</i> assessing the performance of Facility ratings and performance criteria against expected system <i>not</i> the result of studies and assessments – they 'are what they are'. Furthermore, under FAC-008, the is already required (under FAC-008 R6-R8) to make its Facility Ratings available to the Reliability der FAC-015-1 R4, the Planning Coordinator is now being required to provide Facility Ratings. While this was 114-2 with 'SOL' replaced with 'Facility Ratings', this change is now requiring the Planning Coordinator to of the Transmission Owner under FAC-008 to provide. CHPD recommends removal of this requirement
Likes 0	
Dislikes 0	
Response	
Mark Riley - Associated Electric Coopera	tive, Inc 1, Group Name AECI & Member G&Ts
Answer	No
Document Name	
Comment	
	FAC-015-1 R1, Facility Ratings, System steady-state voltage limits, and stability criteria used in Planning on Planning Horizon should be equal to or more conservative/restrictive/limiting
Likes 0	
Dislikes 0	
Response	
Municipal Power Agency, 6, 4, 3, 5; Joe N	ck On Behalf of: Carol Chinn, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida McKinney, Florida Municipal Power Agency, 6, 4, 3, 5; Ken Simmons, Gainesville Regional Utilities, 1, 3; Richard Montgomery, Florida Municipal Power Agency, 6, 4, 3, 5; Tom Reedy, Florida Municipal oup Name FMPA
Answer	No
Document Name	
Comment	
	above, there should be a feedback loop. More information about how to coordinate the planning horizon rould be useful, and a table describing the various time horizons, contingencies, and allowable actions, such ity.

Likes 0	
Dislikes 0	
Response	
Allie Gavin - Allie Gavin On Behalf of: Mi	chael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin
Answer	No
Document Name	
Comment	
eal time operations. The SDT should clarify where lower Facility Ratings will be identified imiting SOL's may be used in real time operojects considered in future Planning mode. The standard should only specify the end of published and readily available to the RC. Facility Ratings for that system. By utilizing able to take in to account specific issues interpretation, use of seasonal ratings in operation.	ore or at least as conservative SOL's should be utilized in the Planning Assessments as those considered in who wexceptions would be justified and who would have the authority to justify them. There will be instances d in real time as Facility Ratings are continually reviewed by TO's. This will create situations when more rations that those that were used in the latest or even current Planning Assessments. There will also be also that may increase Facility Ratings or other SOL's. It should be made clear that this would be acceptable. Dijective and not the process to achieve that objective. Each system has a defined Planning Criteria that is This Criteria has defined voltage limits and stability criteria that have been identified that work with the an RC based methodology, you will be forced to go to either a least common denominator criteria or not be nevern in a system. Having to justify each exception for every rating change due to a project, rating tions is not prudent for either the PC or the TP. The ary to achieve the required outcome. Simple modifications to TPL-001-4 may allow for the same desired
ikes 0	
Dislikes 0	
Response	
David Jendras - Ameren - Ameren Servic	es - 3
Answer	No
Document Name	
Comment	
We agree with the concept that system perf	formance criteria used in the Planning Assessments should be more restrictive or at least line up with system

performance criteria used in the Operating Horizon. But, system performance criteria used in the Operating Horizon cannot be more restrictive than those used in the Planning Horizon. The proposed standard, as written, allows the RC to establish criteria without consultation with the TP and the PC. In our opinion, this is a recipe for failure.

Furthermore, we see nothing in the NERC Functional Model that would allow the PC and RC to develop or establish system performance criteria as part of their defined roles, or to establish performance criteria that could be more restrictive than the criteria provided by the Transmission Owners and Transmission Planners. Standard TPL-001-4 dictates system performance requirements. PC and RC cannot arbitrarily decide to come up with new,

more restrictive system performance criteria	ı.
performance criteria established by the Plar Transmission Planner without any input as t requirements R1 through R3 need to recogn between the PC and the TPs and the Trans	1 through R3 allow for no input from the Transmission Planners regarding the development of any aning Coordinator. Requirement R4 then requires the PC to simply hand-down its criteria to the o whether the criteria are reasonable or whether meeting the criteria is feasible. At a minimum, nize that the development of any PC based system performance criteria has to be a collaborative effort mission Owners. Any tightening of performance criteria will likely require capital investment and we need to why the planned system needs to meet the new, more stringent reliability requirements.
ratings, voltage limits, or performance criteriaction plans should also be provided for the approach proposed by the SDT for the volta Coordinator provide a technical basis to the criteria should be required in planning assessment.	anning Coordinator to provide a technical justification to the Reliability Coordinator for using less limiting ia. We can see that some equipment ratings can change from year to year, and perhaps the corrective see parts of the system that have been or are planned to be upgraded. However, we disagree with the age limits and stability criteria, and instead believe that the drafting team needs to have the Reliability Planning Coordinator and the Transmission Planners regarding why more limiting ratings and performance syments. As any tightening of ratings and performance criteria will likely require capital investments, we re as to why the system as provided/planned needs to meet the new, more stringent reliability requirements
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Southwest Power Po	ol, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group
Answer	No
Document Name	
Comment	
	ke the drafting team to provide some clarity on the short term derates pertaining to the Planning Horizon. vide clarity on what are justified exceptions or how the term is defined.
Likes 0	
Dislikes 0	
Response	
James Grimshaw - CPS Energy - 3	
Answer	No
Document Name	
Comment	
	ransmission Planning Horizon utilize base case models built meeting requirements in MOD-032. These one and upgrade projects that may be put in place to resolve existing SOLs. Assessing the continuing need

projects, assumptions must be made that e	TPL-001, would address the need to study the existing SOLs, however, to properly evaluate other future xisting Corrective Action Plans will be implemented. This means, for example, that studies performed for n Plans identified for Year 2 have already been implemented, which means an existing SOL may have r 5.
Likes 0	
Dislikes 0	
Response	
Laurie Williams - PNM Resources - Publi	c Service Company of New Mexico - 1
Answer	No
Document Name	
Comment	
additional administrative burden on the PA. system performance criteria. PNMR suggests that R1 be revised to provi Coordinator would have to provide a technic example, Facility A has a rating of 100 MVA Corrective Action Plan is to increase the ratic change to the existing Facility in the System less limiting Facility Rating than established should not have to provide technical justification.	eption will still result in a gap between planning and operations and considers this standard, as written, as an Instead of allowing for exceptions, PNMR suggests that the RC, TOP, and PA should jointly develop ide clarity on what is less conservative/restrictive/limiting. Is it the intention of the SDT that the Planning cal justification to the RC for using less limiting Facility ratings based on a Corrective Action Plan? For A. A previous Planning Assessment identified an overload of Facility A. To mitigate the overload the sing of Facility A to 200 MVA. TPL-001-4 R1.1.3 requires the Planning Coordinator to include this planned in model used for the Planning Assessment. Does this situation result in the Planning Coordinator using a d in accordance with the RC's SOL Methodology? PNMR strongly believes that the Planning Coordinators ation to their RC for simply following the TPL-001 standard.
Likes 0	
Dislikes 0	
Response	
Gladys DeLaO - CPS Energy - 1	
Answer	No
Document Name	
Comment	

Planning Assessments for the Near-Term Transmission Planning Horizon utilize base case models built meeting requirements in MOD-032. These base case models incorporate future additions and upgrade projects that may be put in place to resolve existing SOLs. Assessing the continuing need for Corrective Action Plans, as required by TPL-001, would address the need to study the existing SOLs, however, to properly evaluate other future projects, assumptions must be made that existing Corrective Action Plans will be implemented. This means, for example, that studies performed for year 5 should assume that Corrective Action Plans identified for Year 2 have already been implemented, which means an existing SOL may have

already been upgraded when studying Year	5.
Likes 0	
Dislikes 0	
Response	
Great Plains Energy - Kansas City Power	If of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, r and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light is Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb
Answer	No
Document Name	
Comment	
In SPP, the SOLs have historically been de	the PC to provide the criteria to be used by the Transmission Planner in completing Planning Assessments. fined as permanent and temporary flowgate ratings and operating guides. Based on that methodology, it is ify all situations that potentially may cause an operating guide that would lower a rating; and, as such, the anning Assessment.
Likes 0	
Dislikes 0	
Response	
Thomas Foltz - AEP - 5	
Answer	Yes
Document Name	
Comment	
As previously posed in our response to Que "in accordance with" as provided in FA	estion 10, would the language from FAC-015-1 "equally limiting or more limiting than" be considered C-014-3?
Likes 0	
Dislikes 0	
Response	
Aaron Cavanaugh - Bonneville Power Ac	Iministration - 1,3,5,6 - WECC
Answer	Yes
Document Name	

Comment	
While we agree with the principle, BPA doe requirements to existing standards or modif	es not see a need for a new standard. The objective could be better accomplished by including the fying existing standards.
	ding facility ratings are based on MOD-032-1 data requirement. If it is desired to coordinate modeling data adology should align with the MOD-032-1 requirement instead of drafting a new requirement.
Likes 0	
Dislikes 0	
Response	
Michelle Amarantos - APS - Arizona Pub	lic Service Co 1
Answer	Yes
Document Name	
Comment	
AZPS agrees with the principal but does no create an unnecessary additional burden for	ot agree that there is a need for R1, R2 and R3 as they provide minimal additional reliability benefits and or the Planning Coordinator.
Likes 0	
Dislikes 0	
Response	
Robert Blackney - Edison Electric Institu	ute - 1,3,5,6 - WECC
Answer	Yes
Document Name	
Comment	
	at best planning practices include more restrictive or equal limits compared to operational limits to provide ary grid assets or advanced knowledge of system limitations to reliably operate the transmission system.
Likes 0	
Dislikes 0	
Response	
Neil Swearingen - Salt River Project - 1,3	5,5,6 - WECC
Answer	Yes

Document Name	
Comment	
	lished in accordance with the Reliability Coordinator's SOL Methodology, though Facility Ratings are rith their FAC-008-3 Facility Ratings methodology. Perhaps the requirement should read "the Facility
Likes 0	
Dislikes 0	
Response	
Cynthia Kneisl - Midwest Reliability Orga	nization - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF
Answer	Yes
Document Name	
Comment	
	ssment that the system must be planned to at least as conservative limits as are used in the operation of the yses cannot cover all operating conditions to do any different would be to plan a system that could not be
Likes 0	
Dislikes 0	
Response	
Scott Downey - Peak Reliability - 1	
Answer	Yes
Document Name	
Comment	
Peak agrees with this principle.	
Likes 0	
Dislikes 0	
Response	

Shivaz Chopra - New York Power Authority - 1,3,5,6

Answer	Yes
Document Name	
Comment	
Supporting NPCC comments	
Likes 0	
Dislikes 0	
Response	
Richard Vine - California ISO - 2	
Answer	Yes
Document Name	

Comment

- We agree with the principle, but we disagree with the implementation.
- We agree with the following comment from Seattle City Light:
 - The phrase in R1 "If the Planning Coordinator uses less limiting Facility Ratings than the Facility Ratings established in accordance with its Reliability Coordinator's SOL Methodology..." is confusing since Facility Ratings are established by the TO in accordance with FAC-008, not by the RC or TOP in accordance with the SOL Methodology. If the intent is to ensure that, for example, the PC/TP does not plan to 15-minute emergency ratings if the TOP uses only 30-minute emergency ratings in operations, then it should make that more explicit. The requirements seem to imply that there could be more than one set of Facility Ratings for a given Facility (not true) and that Facility Ratings are established in accordance with the RC SOL Methodology (also not true).
 - Proposed alternative language for R1: In planning assessments and operations, facility continuous ratings shall be used for the precontingency state and facility _____ hour/minute ratings shall be used for the post-contingency state.
 - As stated in the purpose section of FAC 008 a Facility Rating is essential for the determination of System Operating Limits. We disagree with the notion that Facility Ratings are SOLs. While Facility ratings are based on characteristics of the Facility in accordance with FAC 008, SOLs are system limits developed using steady state and stability simulations based on a defined set of performance criteria such as those defined in the currently effective FAC-010 and FAC-011 standards.
 - The required coordination between planning and operations can better be addressed by the regional reliability organization like WECC which has an open and established process for developing regional criteria. Reliability coordinators' SOL methodologies are developed without input from planning coordinators.
 - O Given the objective is to ensure coordination between planning and operations, the RC must be assigned a responsibility in the standard. For example, if the standard entails comparing planning models with operations models, then the RC must have the responsibility to provide the operations models and the obligation to timely respond to questions the PC may have in the course of the comparison in order to resolve any discrepancy in facility ratings, etc.
 - Requirement R1 of TPL 001-4 requires the planning coordinator to use modelling data provided in accordance with MOD 10 and MOD 12 (which are now replaced with MOD 32). As such using modelling information such as facility ratings obtained from the reliability

coordinator's SOL methodo	logy can be inconsistent with TPL 001-4.
	in planning do not have to be more conservative than those used in operations. Equally conservative ratings For example, a 0.9 p.u. low voltage limit can applicable in both planning and operations.
o CAISO PC proposes Requi	rements R1 to R5 be replaced with something like:
within a Regional R	ors(PCs), Transmission Planners (TPs), Reliability Coordinators (RCs) and Transmission Operators (TOPs) eliability Organization (RRO) area shall collaborate in developing and implementing consistent applicable ation criteria, System steady-state voltage limits, and stability criteria for use in planning assessments and
0	
Likes 0	
Dislikes 0	
Response	
Gregory Campoli - New York Independen	t System Operator - 2
Answer	Yes
Document Name	
0	
Comment	
However it is not clear on how to handle situ conditions change resulting in more restrictive	ve limits in the Operating Horizon.
However it is not clear on how to handle situ conditions change resulting in more restrictive. Note: ERCOT does not support this response	ve limits in the Operating Horizon.
However it is not clear on how to handle situ conditions change resulting in more restrictive. Note: ERCOT does not support this response Likes 0	ve limits in the Operating Horizon.
However it is not clear on how to handle situ conditions change resulting in more restrict. Note: ERCOT does not support this response Likes 0 Dislikes 0	ve limits in the Operating Horizon.
However it is not clear on how to handle situ conditions change resulting in more restrict. Note: ERCOT does not support this response Likes 0 Dislikes 0	ve limits in the Operating Horizon.
However it is not clear on how to handle situ conditions change resulting in more restrictive. Note: ERCOT does not support this response Likes 0 Dislikes 0 Response	ve limits in the Operating Horizon.
However it is not clear on how to handle situ conditions change resulting in more restrictive. Note: ERCOT does not support this response Likes 0 Dislikes 0 Response Elizabeth Axson - Electric Reliability Court	ncil of Texas, Inc 2
However it is not clear on how to handle situ conditions change resulting in more restrictive. Note: ERCOT does not support this response Likes 0 Dislikes 0 Response Elizabeth Axson - Electric Reliability Courants.	ncil of Texas, Inc 2
However it is not clear on how to handle situ conditions change resulting in more restriction. Note: ERCOT does not support this response. Likes 0 Dislikes 0 Response Elizabeth Axson - Electric Reliability Courant Name Comment	relimits in the Operating Horizon. se ncil of Texas, Inc 2 Yes ralues used in Planning Assessments could be equal or more limiting than those used in the RC's SOL
However it is not clear on how to handle situ conditions change resulting in more restriction. Note: ERCOT does not support this response. Likes 0 Dislikes 0 Response Elizabeth Axson - Electric Reliability Courant Name Comment ERCOT reads the standard to say that the vertice of the standard to say the standard to say that the vertice of the standard to say	relimits in the Operating Horizon. se ncil of Texas, Inc 2 Yes ralues used in Planning Assessments could be equal or more limiting than those used in the RC's SOL

Response	Response	
John Merrell - Tacoma Public Utilities (T	acoma, WA) - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Steven Powell - Trans Bay Cable LLC - N	IA - Not Applicable - WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
	half of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kayleigh Wilkerson - Lincoln Electric Sy		
Answer	Yes	
Document Name		

Comment		
Likes 0		
Dislikes 0		
Response		
Wendy Center - U.S. Bureau of Reclamat	ion - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Donald Hargrove - OGE Energy - Oklaho	ma Gas and Electric Co 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Sarah Gasienica - NiSource - Northern Indiana Public Service Co 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Quintin Lee - Eversource Energy - 1, Group Name Eversource Group		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
sean erickson - Western Area Power Adı	ministration - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Dennis Chastain - Tennessee Valley Aut	hority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed	
Answer	Yes	
Document Name		
Comment		

Likes 0		
Dislikes 0		
Response		
Kevin Salsbury - Berkshire Hathaway - N	V Energy - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Leonard Kula - Independent Electricity S	ystem Operator - 2	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Brian Van Gheem - ACES Power Marketing - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Michael Jones - National Grid USA - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Municipal Utility District, 4, 1, 5, 6, 3; Jar	of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento mie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of acramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Lauren Price - American Transmission (Company, LLC - 1 - MRO,RF
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

	o Planning Assessments of the Near-Term Transmission Planning Horizon? If yes, please provide n and provide alternative language.
Michael Jones - National Grid USA - 1	
Answer	No
Document Name	
Comment	
National Grid supports the NPCC RSC Gro	up comments.
Likes 0	
Dislikes 0	
Response	
Gladys DeLaO - CPS Energy - 1	
Answer	No
Document Name	
Comment	
these base models (as required by MOD-03 as required by MOD-032. FAC-015 Required	red into base planning models required by MOD-032, the same as Facility Ratings are incorporated into 32). TPL-001 requirements would then stay the same, as these studies should be based upon models built ement R1 may be more appropriately incorporated into the FAC-008 facility rating as part of the MLSE ps of facilities, identification of a limiting flow-gate may be more appropriate. If this is not feasible, then the modeling requirements of MOD-032.
Likes 0	
Dislikes 0	
Response	
Laurie Williams - PNM Resources - Publi	c Service Company of New Mexico - 1
Answer	No
Document Name	
Comment	

PNMR believes that this language continues to create a gap between planning and operations. PNMR proposes the removal of the phrase "of the Near-Term Transmission Planning Horizon". Long-Term planning should be performed to the same or more stringent Facility Ratings, System steady

state voltage limits, and stability performand	ce criteria.
Likes 0	
Dislikes 0	
Response	
James Grimshaw - CPS Energy - 3	
Answer	No
Document Name	
Comment	
these base models (as required by MOD-03 as required by MOD-032. FAC-015 Required	ted into base planning models required by MOD-032, the same as Facility Ratings are incorporated into 32). TPL-001 requirements would then stay the same, as these studies should be based upon models built ement R1 may be more appropriately incorporated into the FAC-008 facility rating as part of the MLSE ps of facilities, identification of a limiting flow-gate may be more appropriate. If this is not feasible, then the modeling requirements of MOD-032.
Likes 0	
Dislikes 0	
Response	
Kevin Salsbury - Berkshire Hathaway - N	IV Energy - 5
Answer	No
Document Name	
Comment	
If premise is to ensure consistency with TPI near-term horizon	L-001-4, then language within Standard should reference, "annual Planning Assessment" versus just the
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed
Answer	No
Document Name	
Comment	

sense for the PC/TP to use less limiting crite	ojects are identified in the long-term horizon and take several years to be completed, it would make no eria for the long-term horizon than the near-term horizon or the RC's SOL Methodology. We suggest n and simply referring to the Planning Assessment as in R4.
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Southwest Power Po	ol, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group
Answer	No
Document Name	
Comment	
near term BES representation of year one a	oncern pertaining to the performance of meeting Requirements R1 and R2. They should be limited to the and two in the near term planning horizon power flow cases set. The BES representations will differ between ses due to the proposed project to meet Planning Assessment needs for the year 5 through 10 models.
Likes 0	
Dislikes 0	
Response	
Allie Gavin - Allie Gavin On Behalf of: Mi	chael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin
Answer	No
Document Name	
Comment	
The same concepts that apply to the Near-Term Transmission Planning Horizon should apply to the Long-Term Planning Horizon. ITC agrees with the general concept that more or at least as conservative SOL's should be utilized in the Planning Assessments as those considered in real time operations. The SDT should clarify how exceptions would be justified and who would have the authority to justify them. There will be instances where lower Facility Ratings will be identified in real time as Facility Ratings are continually reviewed by TO's. This will create situations when more limiting SOL's may be used in real time operations that those that were used in the latest or even current Planning Assessments. There will also be projects considered in future Planning models that may increase Facility Ratings or other SOL's. It should be made clear that this would be acceptable.	

Per FAC-008-3, Facility Ratings are calculated by the TO and communicated to the TP and TOP (typically all within the same organization) and to the PC and RC. These ratings are used throughout both the Near-Term and Long-Term Planning Assessments unless a planned project causes them to change or a project that is under construction goes in service. Coordination occurs today and should be allowed to continue without strict dictates on exactly how each organization will perform their work. The standard should only specify the end objective and not the process to achieve that objective.

Likes 0

We expect the FR and limits used in the TPL assessments to be very similar if not identical in most cases between the near-term and long-term

Dislikes 0		
Response		
Brandon McCormick - Brandon McCormick On Behalf of: Carol Chinn, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida Municipal Power Agency, 6, 4, 3, 5; Joe McKinney, Florida Municipal Power Agency, 6, 4, 3, 5; Ken Simmons, Gainesville Regional Utilities, 1, 3, 5; Randy Hahn, Ocala Utility Services, 3; Richard Montgomery, Florida Municipal Power Agency, 6, 4, 3, 5; Tom Reedy, Florida Municipal Power Pool, 6; - Brandon McCormick, Group Name FMPA		
Answer	No	
Document Name		
Comment		
We question what the value of R1-R3 is and if the requirements are even needed. R1-R3 are really dealing with TPL-001-4 and there shouldn't be three additional requirements in FAC-015-1 to deal with the uncommon occurrence of a PC using less limiting Facility Ratings, System steady-state voltage limits, or stability performance criteria. It certainly shouldn't require a technical justification, it should only require coordination		
Likes 0		
Dislikes 0		
Response		
Janis Weddle - Public Utility District No.	1 of Chelan County - 6, Group Name Chelan PUD	
Answer	No	
Document Name		
Comment		
The TPL-001-4 study requires MOD data to be used in TPL-001-4 R1. This includes the rating of transformers and transmission lines. Voltage limits (including the stability performance of the voltage) is addressed in TPL-001-4 R6 and are the required criteria for the Planning Assessment. These requirements are applicable to both the Near-Term Transmission Planning Horizon and the Long-Term Planning Horizon. Specifying the time horizon in FAC-015-1 should not be done because it does not modify the time frame requirement found in TPL-001-4 for when these thermal and voltage limits should be used. CHPD feels this language should be removed from FAC-015-1 R1-R3.		
Likes 0		
Dislikes 0		
Response		
Terri Pyle - OGE Energy - Oklahoma Gas	and Electric Co 1	
Answer	No	
Document Name		
Comment		

Please refer to the comments submitted by the SPP Standards Review Group.		
Likes 0		
Dislikes 0		
Response		
Daniel Grinkevich - Con Ed - Consolidate	ed Edison Co. of New York - 1	
Answer	No	
Document Name		
Comment		
NERC TPL-001 Planning Assessment should both Near-Term and Long-Term Transmiss	old have Facility Ratings, System steady state voltage limits, and stability performance criteria established for ion Planning Horizon, however these should be defined separately from RC's SOL Methodology.	
Likes 0		
Dislikes 0		
Response		
Bridget Silvia - Sempra - San Diego Gas	and Electric - 3	
Answer	No	
Document Name		
Comment		
Desire consistency.		
Likes 0		
Dislikes 0		
Response		
Scott Downey - Peak Reliability - 1		
Answer	No	
Document Name		
Comment		

Peak believes that requirements R1 through R3 should also apply to other NERC required assessments such as the Transfer Capability assessments required by FAC-013-2. It is important for reliability that these Transfer Capability assessments abide by the same principles as the Planning

	ion Planning Horizon. Otherwise the Transfer Capability assessments could use a different set of Facility y criteria than those established in accordance with the RC's SOL Methodology, which propagates the -015-1 Requirements R1 through R3.	
Likes 0		
Dislikes 0		
Response		
John Seelke - LS Power Transmission, L	LC - 1	
Answer	No	
Document Name		
Comment		
See the response to Q16.		
Likes 0		
Dislikes 0		
Response		
Cynthia Kneisl - Midwest Reliability Orga	nization - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF	
Answer	No	
Document Name		
Comment		
of different Facility Ratings, System steady Planning Horizons has the potential to be pl and Long-Term Planning Horizons in the Planning	nnical reason to exclude the Long-Term Transmission Planning Horizon from Requirements R1-R3. The use state voltage limits, and stability performance criteria between the Near-Term and Long-Term Transmission roblematic. To ensure consistency with Reliability Standard TPL-001-4, which includes both the Near-Term anning Assessment, recommend the following change to R1-R3:	
Each Planning Coordinator used in its annual Planning Assessment are equally limiting		
Likes 0		
Dislikes 0		
Response		
Faz Kasraie - Faz Kasraie On Behalf of: N	Mike Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie	
Answer	No	
Document Name		

Comment	
horizon necessary to fund, plan and constru	used to establish Ratings/Limits would be different in the near-term and longer-term horizons. The time uct facilities is much longer than 1 to 2 years. Unacceptable system performance needs to be identified five g facilities to solve these issues. As for alternative language, we would just strike the words "of the -Term Transmission Planning Horizon" from the requirements.
Likes 0	
Dislikes 0	
Response	
Kayleigh Wilkerson - Lincoln Electric Sy	stem - 5
Answer	No
Document Name	
Comment	
different Facility Ratings, System steady sta Planning Horizons has the potential to be p and Long-Term Planning Horizons in the Pl	reason to exclude the Long-Term Transmission Planning Horizon from Requirements R1-R3. The use of late voltage limits, and stability performance criteria between the Near-Term and Long-Term Transmission roblematic. To ensure consistency with Reliability Standard TPL-001-4, which includes both the Near-Term lanning Assessment, LES recommends the following change to R1-R3: Innual Planning Assessment are equally limiting".
Likes 0	
Dislikes 0	
Response	
Ginette Lacasse - Seattle City Light - 1,3	,4,5,6 - WECC, Group Name Seattle City Light Ballot Body
Answer	No
Document Name	
Comment	
horizon necessary to fund, plan and construto ten years in the future to allow for buildin Near	used to establish Ratings/Limits would be different in the near-term and longer-term horizons. The time uct facilities is much longer than 1 to 2 years. Unacceptable system performance needs to be identified five g facilities to solve these issues. As for alternative language, we would just strike the words "of the -Term Transmission Planning Horizon" from the requirements.
Likes 0	

Dislikes 0	
Response	
Thomas Foltz - AEP - 5	
Answer	No
Document Name	
Comment	
We are confused by the question as posed.	. The proposed revisions provide a planning horizon of Long-term Planning for R1 through R3.
Likes 0	
Dislikes 0	
Response	
Quintin Lee - Eversource Energy - 1, Gro	up Name Eversource Group
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Lauren Price - American Transmission C	ompany, LLC - 1 - MRO,RF
Answer	Yes
Document Name	
Comment	
We think that It is unnecessary and less worthwhile to include the Long-Term Planning Horizon (6 - 10 years in the future) because the future system assumptions (load, generation, transfers, etc.) are more uncertain and speculative than the Near-Term Planning Horizon. So, the results would be less useful and subject to change than the Near-Term Planning Horizon results.	
Likes 0	
Dislikes 0	

Response	
Brian Van Gheem - ACES Power Marketi	ng - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators
Answer	Yes
Document Name	
Comment	
We agreed with the SDT that Planning Assessments in scope for these requirements should be limited to the Near-Term Transmission Planning Horizon. PCs are already required to share their results with their RCs, per NERC Reliability Standards IRO-017-1. Sharing similar results from Planning Assessments that are analyzed over a longer time period may not readily benefit the RC looking to develop Operating Plans that alleviate SOL Exceedances.	
Likes 0	
Dislikes 0	
Response	
Leonard Kula - Independent Electricity S	ystem Operator - 2
Answer	Yes
Document Name	
Comment	
We concur with that statement as this is the	closest Planning time horizon to that of Operations.
Likes 0	
Dislikes 0	
Response	
David Jendras - Ameren - Ameren Services - 3	
Answer	Yes
Document Name	
Comment	
With the exception of planned facility upgrades, we are unaware of why facility ratings, steady-state voltage limits, and stability performance criteria would be different in the Long-Term vs. Near-Term Planning Horizons and would need to be coordinated with the Reliability Coordinator. Therefore, for the Eastern Interconnection, limiting the coordination from the Near-Term Planning Horizon with the Operating Horizon to a discussion of changed facility ratings should be adequate to maintain reliability.	

Likes 0

Dislikes 0		
Response		
Julie Hall - Entergy - 6		
Answer	Yes	
Document Name		
Comment		
Entergy agrees with the rationale that the time period of 1 to 5 years the assumptions tend to be more certain.		
Likes 0		
Dislikes 0		
Response		
Colby Bellville - Duke Energy - 1,3,5,6 - F	RCC,SERC,RF, Group Name Duke Energy	
Answer	Yes	
Document Name		
Comment		
	essments should be limited those for the Near-Term Transmission Planning Horizon, as it is very difficult to -10. We agree that this should only apply to the Near-Term Planning Horizon.	
Likes 0		
Dislikes 0		
Response		
Shivaz Chopra - New York Power Authority - 1,3,5,6		
Answer	Yes	
Document Name		
Comment		
Supporting NPCC comments		
Likes 0		
Dislikes 0		
Response		

ameia riunter - Southern Company - St	buthern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company
Answer	Yes
Document Name	
Comment	
be seen operationally and develop appropr	erm horizon, 5 years provides sufficient time to identify thermal constraints in the same manner as they would iate Corrective Actions. The Near Term horizon is more than enough time to identify constraints and prepare arios that may be candidates to be declared an IROL by the RC.
Likes 0	
Dislikes 0	
Response	
Mike Smith - Manitoba Hydro - 1, Group	Name Manitoba Hydro
Answer	Yes
Document Name	
Document Name Comment	
Comment Limiting to the Near-Term assessment is fir	ne. However, the Manitoba Hydro Planning Coordinator does not typically change the limits/criteria/ratings rizons. The exception would be Facility Ratings where a modification occurred (Corrective Action Plan dology changed.
Comment Limiting to the Near-Term assessment is fir between the Near-Term and Long Term ho	rizons. The exception would be Facility Ratings where a modification occurred (Corrective Action Plan
Comment Limiting to the Near-Term assessment is fir between the Near-Term and Long Term ho installed) or possibly a facility rating method	rizons. The exception would be Facility Ratings where a modification occurred (Corrective Action Plan
Comment Limiting to the Near-Term assessment is fir between the Near-Term and Long Term ho installed) or possibly a facility rating method Likes 0	rizons. The exception would be Facility Ratings where a modification occurred (Corrective Action Plan
Comment Limiting to the Near-Term assessment is fir between the Near-Term and Long Term ho installed) or possibly a facility rating method Likes 0 Dislikes 0	rizons. The exception would be Facility Ratings where a modification occurred (Corrective Action Plan
Comment Limiting to the Near-Term assessment is fir between the Near-Term and Long Term ho installed) or possibly a facility rating method Likes 0 Dislikes 0	rizons. The exception would be Facility Ratings where a modification occurred (Corrective Action Plan dology changed.
Comment Limiting to the Near-Term assessment is fir between the Near-Term and Long Term ho installed) or possibly a facility rating method Likes 0 Dislikes 0 Response	rizons. The exception would be Facility Ratings where a modification occurred (Corrective Action Plan dology changed.
Comment Limiting to the Near-Term assessment is fir between the Near-Term and Long Term ho installed) or possibly a facility rating method Likes 0 Dislikes 0 Response Robert Blackney - Edison Electric Institu	rizons. The exception would be Facility Ratings where a modification occurred (Corrective Action Plan dology changed.

The Facility Ratings, voltage limits, and stability criteria (SOLs) should be limited to Near-Term Transmission Planning Horizon. The system conditions and uncertainty beyond Near-Term Transmission Planning Horizon are better suited for large capital projects which require extensive licensing. Unnecessary engineering and licensing may occur if more restrictive SOLs are required for Long Term Transmission Planning.

Likes 0	
Dislikes 0	
Response	
Michelle Amarantos - APS - Arizona Pub	lic Service Co 1
Answer	Yes
Document Name	
Comment	
be limited to only studies for years 1 to 2. T	anning Assessments of the Near-Term Transmission Planning Horizon and further recommends that it should The Near-Term transmission planning horizon covers years 1 to 5 and is much longer than the operating tions to be used for years 1 – 5 of the Near-Term Planning Horizon could be problematic and is unnecessary.
Likes 0	
Dislikes 0	
Response	
Aaron Cavanaugh - Bonneville Power Ac	Iministration - 1,3,5,6 - WECC
Answer	Yes
Document Name	
Comment	
	near term planning horizon is more aligned with operations horizon, BPA does not see a need for a new omplished by including the requirements in existing standards or modifying existing standards. R1 is covered ressed in TPL-001-04.
Likes 0	
Dislikes 0	
Response	
Municipal Utility District, 4, 1, 5, 6, 3; Jan	of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento nie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of acramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1,
Answer	Yes
Document Name	
Comment	

Likes 0		
Dislikes 0		
Response		
Elizabeth Axson - Electric Reliability Cou	ıncil of Texas, Inc 2	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Douglas Webb - Douglas Webb On Behalf of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; John Carlson, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb		
Answer	Yes	
Answer		
Answer Document Name		
Answer Document Name		
Answer Document Name Comment		
Answer Document Name Comment Likes 0		
Answer Document Name Comment Likes 0 Dislikes 0		
Answer Document Name Comment Likes 0 Dislikes 0	Yes	
Answer Document Name Comment Likes 0 Dislikes 0 Response	Yes	
Answer Document Name Comment Likes 0 Dislikes 0 Response Gregory Campoli - New York Independent	Yes It System Operator - 2	
Answer Document Name Comment Likes 0 Dislikes 0 Response Gregory Campoli - New York Independent Answer	Yes It System Operator - 2	
Answer Document Name Comment Likes 0 Dislikes 0 Response Gregory Campoli - New York Independent Answer Document Name	Yes It System Operator - 2	
Answer Document Name Comment Likes 0 Dislikes 0 Response Gregory Campoli - New York Independent Answer Document Name	Yes It System Operator - 2	
Answer Document Name Comment Likes 0 Dislikes 0 Response Gregory Campoli - New York Independent Answer Document Name Comment	Yes It System Operator - 2	

Dennis Chastain - Tennessee Valley Authority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
sean erickson - Western Area Power Ad	ministration - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mark Riley - Associated Electric Coopera	ative, Inc 1, Group Name AECI & Member G&Ts
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Sarah Gasienica - NiSource - Northern Ir	ndiana Public Service Co 5
Answer	Yes
Document Name	
Comment	

Likes 0			
Dislikes 0			
Response			
Preston Walker - PJM Interconnection, L.L.C 2 - SERC,RF			
Answer	Yes		
Document Name			
Comment			
Likes 3	PSEG - PSEG Energy Resources and Trade LLC, 6, Barton Karla; PSEG - Public Service Electric and Gas Co., 3, Mueller Jeffrey; PSEG - Public Service Electric and Gas Co., 1, Smith Joseph		
Dislikes 0			
Response			
Neil Swearingen - Salt River Project - 1,	Neil Swearingen - Salt River Project - 1,3,5,6 - WECC		
Answer	Yes		
Document Name			
Comment			
Likes 0			
Dislikes 0			
Response			
Wendy Center - U.S. Bureau of Reclamation - 5			
Answer	Yes		
Document Name			
Comment			
Likes 0			
Dislikes 0			
Response			

Amy Casuscelli - Amy Casuscelli On Behalf of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Steven Powell - Trans Bay Cable LLC - N	NA - Not Applicable - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
John Merrell - Tacoma Public Utilities (T	acoma, WA) - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Richard Vine - California ISO - 2	
Answer	
Document Name	
Comment	

We disagree with the implementation of FAC 15-1. The Facility Ratings, System steady state voltage limits, and stability performance criteria used in the near term are not different from those used in the long term.	
Likes 0	
Dislikes 0	
Response	

3. In Requirements R1 – R3, the SDT is proposing to allow a PC to provide a technical justification to its RC for using less limiting Facility Ratings, System steady-state voltage limits, and stability performance criteria than those specified in its RC's SOL Methodology. Do you agree that this provides adequate flexibility (in the rare circumstances when less limiting Facility Ratings, System steady-state voltage limits, and stability performance criteria must be utilized; e.g., up-rating a line in a future project) without compromising reliability? If yes, please provide supporting rationale; if no, please explain and provide alternative language.		
Ginette Lacasse - Seattle City Light - 1,3,4,5,6 - WECC, Group Name Seattle City Light Ballot Body		
Answer	No	
Document Name		
Comment		
It makes sense to require PC/TPs to use the same "type" of Facility Ratings and Voltage Limits as the RC/TOP (i.e. if the TOP is operating to 20- ninute emergency ratings, the TP/PC shouldn't be planning to 60-minute emergency ratings). If that is the intent, then this requirement should be be ncluded in the TPL-001 standard rather than in this separate FAC-015 standard. The language I would put in the TPL standard would look something ke: "Each Transmission Planner and Planning Coordinator shall use the same or a more conservative category of Facility Rating (i.e. using the same mergency rating duration, or using only normal ratings) as used by the TOP/RC in operations." The language of the proposed requirements implies that the RC will be the arbiter of which planned projects can be included in planning cases, which oes not make sense. If the intent is make sure the RC is aware of these planned projects, the language should be changed (perhaps in a separate requirement) to something like: "the PC/TP shall inform its associated RC of any planned projects that result in changes to Facility Ratings, System foltage Limits or Stability Limits used in the planning horizon." If the drafting team sees a need to set the terms under which a project can be included in a TPL planning case, that should be included in the TPL-001 standard, not decided on a case-by-case basis by the RC. The case of Stability Criteria, TPL-001-4 and WECC-CRT-3.1 provide pretty explicit criteria for planning assessments. If these are not consistent with the RC requirements, that should be addressed within those standards. The TP/PC should not need to comply with two different sets of stability criteria.		
Likes 0		
Dislikes 0		
Response		
Mike Smith - Manitoba Hydro - 1, Group Name Manitoba Hydro		
Answer	No	
Document Name		
Comment		
R1: The Facility Ratings are coordinated through the MOD-032-1 model development process. Modeling differences from year to year are documented		

R1: The Facility Ratings are coordinated through the MOD-032-1 model development process. Modeling differences from year to year are documented but not between each series of models. The RC is regularly updating Facility Ratings to perform operational and real time studies. The Planning Models are made annually with assumptions made on in-service dates. A particular RC model could easily be out-of-sync with a particular PC model on certain pieces of equipment, however there should be no reliability gap as a result. If the Facility Ratings used by the RC are different from the Year 1 planning model, perhaps the RC should provide a technical justification to the PC instead? This seems to be a lot of work for minimal if any reliability gain.

R2: The PC has documented steady state voltage criteria as required by TPL-001-4 R5. The Transmission Operator fundamentally sets the steady state voltage limits on each BES bus as per NERC NERC FAC-014-3 R2 and NERC FAC-011-4 R3.1. It makes more sense for the PC to coordinate with the

Transmission Operator(s) within the PC area to ensure that limits/criteria are coordinated and exceptions noted. This would be an easy task that it is already performed in Manitoba. The PC criteria is documented in the Transmission System Interconnection Requirements document (created to be compliant with FAC-001) and exceptions developed by the Transmission Operator are noted in a referenced Normal Operating Procedure. R3: The PC has documented steady stability criteria as required by TPL-001-4 R4 and R5. The Transmission Operator sets the stability criteria as per NERC FAC-014-3 R2 and NERC FAC-011-4 R4.1. It makes more sense for the PC to coordinate with the Transmission Operator(s) within the PC area to ensure that limits/criteria are coordinated and exceptions noted. This would be an easy task that it is already performed in Manitoba. The PC criteria is documented in the Transmission System Interconnection Requirements document (created to be compliant with FAC-001).	
Likes 0	
Dislikes 0	
Response	
Pamela Hunter - Southern Company - So	uthern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company
Answer	No
Document Name	
Comment	
The purpose is to make clear that the use of	sumed ambient temperature(s)" after the term "Near-Term Transmission Horizon" in the first sentence of R1. f dynamic ratings based on ambient conditions in Operations for thermal ratings can be utilized and that the cility Ratings and the Facility Ratings associated with the Reliability Coordinator can be at a discrete small
Likes 0	
Dislikes 0	
Response	
Faz Kasraie - Faz Kasraie On Behalf of: N	like Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie
Answer	No
Document Name	
Comment	
	e same "type" of Facility Ratings and Voltage Limits as the RC/TOP (i.e. if the TOP is operating to 20-minute

It makes sense to require PC/TPs to use the same "type" of Facility Ratings and Voltage Limits as the RC/TOP (i.e. if the TOP is operating to 20-minute emergency ratings, the TP/PC shouldn't be planning to 60-minute emergency ratings). If that is the intent, then this requirement should be be included in the TPL-001 standard rather than in this separate FAC-015 standard. The language I would put in the TPL standard would look something like: "Each Transmission Planner and Planning Coordinator shall use the same or a more conservative category of Facility Rating (i.e. using the same emergency rating duration, or using only normal ratings) as used by the TOP/RC in operations."

does not make sense. If the intent is make requirement) to something like: "the PC/TP Voltage Limits or Stability Limits used in the	s implies that the RC will be the arbiter of which planned projects can be included in planning cases, which sure the RC is aware of these planned projects, the language should be changed (perhaps in a separate shall inform its associated RC of any planned projects that result in changes to Facility Ratings, System planning horizon." If the drafting team sees a need to set the terms under which a project can be included in the TPL-001 standard, not decided on a case-by-case basis by the RC.
	and WECC-CRT-3.1 provide pretty explicit criteria for planning assessments. If these are not consistent with seed within those standards. The TP/PC should not need to comply with two different sets of stability criteria
Likes 0	
Dislikes 0	
Response	
Cynthia Kneisl - Midwest Reliability Orga	unization - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF
Answer	No
Document Name	
Comment	
justification is. Nor does the standard identification proposed requirements. The requirements r	isses where this flexibility is necessary, there is no criterion to determine what acceptable technical fy who it is that determines that the technical justification is acceptable. This leaves ambiguity in the need to clearly spell out which entity is responsible for determining when it is appropriate for less limiting As it is the real-time operators who will have to operate the system as designed, we believe the RC should tion is appropriate or not.
Likes 0	
Dislikes 0	
Response	
John Seelke - LS Power Transmission, L	LC - 1
Answer	No
Document Name	
Comment	
See the response to Q16.	
Likes 0	
Dislikes 0	

Response		
Bridget Silvia - Sempra - San Diego Gas	and Electric - 3	
Answer	No	
Document Name		
Comment		
For consistency.		
Likes 0		
Dislikes 0		
Response		
Daniel Grinkevich - Con Ed - Consolidat	ed Edison Co. of New York - 1	
Answer	No	
Document Name		
Comment		
Ratings, System steady state voltage limits	er and not only Planning Coordinator the opportunity to provide a technical justification for 'different' Facility s, and stability performance criteria to its Reliability Coordinator. ddition of "Transmission Planner or" as follows:	
"[]If the Transmission Planner or Planning Coordinator uses less limiting System steady established in accordance with its Reliability Coordinator's SOL -state		
Methodology, the Planning Coordinator sha	all provide a technical justification to its Reliability Coordinator."	
Likes 0		
Dislikes 0		
Response		
Terri Pyle - OGE Energy - Oklahoma Gas	and Electric Co 1	
Answer	No	
Document Name		
Comment		
Please refer to the comments submitted by	the SPP Standards Review Group.	

Likes 0		
Dislikes 0		
Response		
Janis Weddle - Public Utility District No.	1 of Chelan County - 6, Group Name Chelan PUD	
Answer	No	
Document Name		
Comment		
Coordinator, CHPD disagrees with the state Reliability Coordinator and Planning Coordine each other with technical concerns. Alternate	by by allowing the Planning Coordinator to use different criteria, with justification to the Reliability ement that this will be a rare circumstance. As stated above, CHPD feels a better tool would be for the nator to exchange methodologies and ratings assumptions / practices, and to have the ability to comment to tive language for R1-R3 could be something to the effect:	
R1. The Reliability Coordinator shall provide Reliability Coordinator's area	e its methodology, performance criteria, and ratings assumptions to each Planning Coordinator in the	
1. Each Calendar Year		
2. 90 days prior to a change		
R2. The Planning Coordinator shall provide its methodology, performance criteria, and ratings assumptions to each Reliability Coordinator in the Planning Coordinator's area		
1. Each Calendar Year		
2. 90 days prior to a change		
	cy Coordinator) receive technical comments in writing from the (Reliability Coordinator or Planning Reliability Coordinator) shall respond to those comments within 30 days.	
Likes 0		
Dislikes 0		
Response		
Brandon McCormick - Brandon McCormick On Behalf of: Carol Chinn, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida Municipal Power Agency, 6, 4, 3, 5; Ken Simmons, Gainesville Regional Utilities, 1, 3, 5; Randy Hahn, Ocala Utility Services, 3; Richard Montgomery, Florida Municipal Power Agency, 6, 4, 3, 5; Tom Reedy, Florida Municipal Power Pool, 6; - Brandon McCormick, Group Name FMPA		
Answer	No	
Document Name		
Comment		

Please see our comments for question number 6 regarding feedback loops.		
Likes 0		
Dislikes 0		
Response		
Allie Gavin - Allie Gavin On Behalf of: Mi	chael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin	
Answer	No	
Document Name		
Comment		
This would place too much burden on both the PC and TP. Per FAC-008-3, Facility Ratings are calculated by the TO and communicated to the TP and TOP (typically all within the same organization) and to the PC and RC. These same ratings are used throughout both the Near-Term and Long-Term Planning Assessments unless a planned project causes them to change or a project that is under construction goes in service. Coordination occurs today and should be allowed to continue without strict dictates on exactly how each organization will perform their work. The standard should only specify the end objective and not the process to achieve that objective.		
Likes 0		
Dislikes 0		
Response		
David Jendras - Ameren - Ameren Servic	ses - 3	
Answer	No	
Document Name		
Comment		
With the exception of planned facility upgrades, we are unaware of why any technical justification would be required by the PC to the RC. Conversely to what is stated in the question, we do not believe that facility upgrades are rare circumstances and compromise reliability.		
Furthermore, we see nothing in the NERC Functional Model that would allow the PC and RC to develop or establish system performance criteria as part of their defined roles, or to establish performance criteria that could be more restrictive than the criteria provided by the Transmission Owners and Transmission Planners. Standard TPL-001-4 dictates system performance requirements. PC and RC cannot arbitrarily decide to come up with new, more restrictive system performance criteria.		
We are also concerned that requirements R1 through R3 allow for no input from the Transmission Planners regarding the development of any performance criteria established by the Planning Coordinator. Requirement R4 then requires the PC to simply hand-down its criteria to the Transmission Planner without any input as to whether the criteria are reasonable or whether meeting the criteria is feasible. At a minimum,		

requirements R1 through R3 need to recognize that the development of any PC based system performance criteria has to be a collaborative effort between the PC and the TPs and the Transmission Owners. Any tightening of performance criteria will likely require capital investment and we need to hear from the Planning Coordinators as to why the planned system needs to meet the new, more stringent reliability requirements.		
Requirements R1 through R3 require the Planning Coordinator to provide a technical justification to the Reliability Coordinator for using less limiting ratings, voltage limits, or performance criteria. We can see that some equipment ratings can change from year to year, and perhaps the corrective action plans should also be provided for those parts of the system that have been or are planned to be upgraded. However, we disagree with the approach proposed by the SDT for the voltage limits and stability criteria, and instead believe that the drafting team needs to have the Reliability Coordinator provide a technical basis to the Planning Coordinator and the Transmission Planners regarding why more limiting ratings and performance criteria should be required in planning assessments. As any tightening of ratings and performance criteria will likely require capital investments, we need to hear from the Reliability Coordinators as to why the system as provided/planned needs to meet the new, more stringent reliability requirements.		
Likes 0		
Dislikes 0		
Response		
Richard Vine - California ISO - 2		
Answer	No	
Document Name		
Comment		
 For the reasons noted in the response to Question 11, the ISO does not agree with the implementation of FAC-015. However, if it is implemented, we support allowing a PC to provide a technical justification to its RC for using less limiting Facility Ratings, System steady-state voltage limits, and stability performance criteria than those specified in its RC's SOL Methodology. We request the term "Facility Ratings" in the requirement and throughout the standard be replaced with something like "applicable Facility Ratings duration criteria". "In the case of Stability Criteria, TPL-001-4 and TPL-001-WECC-CRT-3.1 provide pretty explicit criteria for planning assessments. If these are 		
not consistent with the RC requirements, that should be addressed within those standards. The TP/PC should not need to comply with two different sets of stability criteria."		
Likes 0		
Dislikes 0		
Response		
Kevin Salsbury - Berkshire Hathaway - N	V Energy - 5	
Answer	No	
Document Name		
Comment		

There needs to be language defining who decides that the technical justification is acceptable.		
Likes 0		
Dislikes 0		
Response		
Leonard Kula - Independent Electricity S	System Operator - 2	
Answer	No	
Document Name		
Comment		
	It the Facility Rating provided by the equipment owner that is applicable for the year of the study (which may at is used. The language in the requirement should address this.	
Likes 0		
Dislikes 0		
Response		
Laurie Williams - PNM Resources - Publi	c Service Company of New Mexico - 1	
Answer	No	
Document Name		
Comment		
PNMR believes that allowing a justified exception will still result in a gap between planning and operations and considers this standard, as written, as an additional administrative burden on the PA. Instead of allowing for exceptions, PNMR suggests that the RC, TOP, and PA should jointly develop system performance criteria.		
Likes 0		
Dislikes 0		
Response		
Great Plains Energy - Kansas City Powe	If of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, r and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light s Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb	
Answer	No	
Document Name		

In most situations, proposed R1-R3 provide	es adequate flexibility without compromising reliability; however, it raises a question:	
If the RC needs to lower an SOL below the Facility Rating in real-time due to clearance issues, how does the PC monitor SOLs to determine if an SOL has gone lower than the Facility Rating, necessitating technical justification?		
Likes 0		
Dislikes 0		
Response		
Elizabeth Axson - Electric Reliability Cou	uncil of Texas, Inc 2	
Answer	No	
Document Name		
Comment		
In the event planned transmission system upgrades exist, the PC would often need to use less limiting Facility Ratings for those facilities. The SDT should consider including a firm exclusion of transmission system upgrades for FAC-015-1 R1 to avoid unnecessary documentation for a frequent and commonly understood justification.		
ERCOT suggests the following revision to achieve this purpose:		
Each Planning Coordinator, when developing its steady other than those with planned transmission upgrades, Facility Ratings used in its Planning Assessment of the Near -T Horizon are equally limiting or more limiting than those established in accordance with its Reliability Coordinator's SOL Methodology.		
****Please refer to the attached comment form for redlined language.		
Likes 0		
Dislikes 0		
Response		
Brian Van Gheem - ACES Power Marketing - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators		
Answer	No	
Document Name		
Comment		

Comment

inclusion of technical justifications for u audience of a RC's SOL Methodology System Voltage Limits, and stability lin	e results of their Planning Assessments to impacted RCs, per NERC Reliability Standards IRO-017-1. The using less limiting SOLs would then be included in addition to these results. We caution the SDT that the target are TOPs, not PCs. TOPs use this methodology to determine applicable owner -provious that can be used in operations. We feel this creates a process gap that should be addressed by requiring the a method for PCs to determine applicable owner
Likes 0	
Dislikes 0	
Response	
Aaron Cavanaugh - Bonneville Pow	er Administration - 1,3,5,6 - WECC
Answer	Yes
Document Name	
Comment	
	A does not see a need for a new standard. The objective could be better accomplished by including the modifying existing standards. MOD-032-1 and TPL-001-4 should be modified to address.
Likes 0	
Dislikes 0	
Response	
Robert Blackney - Edison Electric Ir	nstitute - 1,3,5,6 - WECC
Answer	Yes
Document Name	
Comment	
The proposed process for exceptions i system is nuanced and providing this f	is adequate because it ensures visibility of these exceptions to the Reliability Coordinator. The transmission flexibility is important granted that the affected parties are involved (such as the RC).
Likes 0	
Dislikes 0	
Response	
Wendy Center - U.S. Bureau of Recl	amation - 5
Answer	Yes

Document Name	
Comment	
Reclamation supports the use of less limitin in the RC's SOL Methodology when approp	g Facility Ratings, System steady-state voltage limits, and stability performance criteria than those specified riate.
Likes 0	
Dislikes 0	
Response	
Scott Downey - Peak Reliability - 1	
Answer	Yes
Document Name	
Comment	
and stability criteria than those established	is a technically justifiable reason for using less limiting Facility Ratings, System steady-state voltage limits, in accordance with (or described in) the RC's SOL Methodology. However, if the RC does not agree with the RC should have the authority to refute the justification which would then require that the stipulations in the
Likes 0	
Dislikes 0	
Response	
Shivaz Chopra - New York Power Author	ity - 1,3,5,6
Answer	Yes
Document Name	
Comment	
Supporting NPCC comments	
Likes 0	
Dislikes 0	
Response	

Colby Bellville - Duke Energy - 1,3,5,6 - FRCC,SERC,RF, Group Name Duke Energy

Answer	Yes
Document Name	
Comment	
Duke Energy agrees that the proposal provi above, works in concert with question 13.	des adequate flexibility, however, we request further clarification from the drafting team on how question 11
Likes 0	
Dislikes 0	
Response	
Julie Hall - Entergy - 6	
Answer	Yes
Document Name	
Comment	
Entergy agrees with allowing the PC to prov where it is necessary to use less limiting rat	ride a technical justification. Not all situations can be covered and there may be extenuating circumstances ings.
Likes 0	
Dislikes 0	
Response	
Mark Riley - Associated Electric Coopera	tive, Inc 1, Group Name AECI & Member G&Ts
Answer	Yes
Document Name	
Comment	
	equate flexibility. A Registered Entity may encounter circumstances where there is a technically justifiable s, System steady-state voltage limits, and stability criteria than those established in the Reliability
Likes 0	
Dislikes 0	
Response	

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed

Answer	Yes
Document Name	
Comment	
A sound technical justification may indeed by	be appropriate in certain cases and this flexibility is well captured by the standard.
Likes 0	
Dislikes 0	
Response	
Gregory Campoli - New York Independer	nt System Operator - 2
Answer	Yes
Document Name	
Comment	
TPL to establish those limits for facilities in Note: ERCOT does not support this responsibles 0 Dislikes 0	
Response	
James Grimshaw - CPS Energy - 3	
Answer	Yes
Document Name	
Comment	
new "system operating state" is the particular	is marked with asterisk indicate data that vary with system operating state or conditions." In this case, the ar future year under study which should incorporate all anticipated topology and rating changes for that year. we been added to upgrade an existing SOL.
Likes 0	
Dislikes 0	
Response	

Gladys DeLaO - CPS Energy - 1	Gladys DeLaO - CPS Energy - 1		
Answer	Yes		
Document Name			
Comment			
new "system operating state" is the particul	is marked with asterisk indicate data that vary with system operating state or conditions." In this case, the ar future year under study which should incorporate all anticipated topology and rating changes for that year. we been added to upgrade an existing SOL.		
Likes 0			
Dislikes 0			
Response			
Michael Jones - National Grid USA - 1			
Answer	Yes		
Document Name			
Comment			
National Grid supports the NPCC RSC Gro	up comments.		
Likes 0			
Dislikes 0			
Response			
Lauren Price - American Transmission C	company, LLC - 1 - MRO,RF		
Answer	Yes		
Document Name			
Comment			
We think that although the circumstances for occur.	or more limiting SOLs may be rare, it is wise to include provisions for addressing them in case they would		
Likes 0			
Dislikes 0			
Response			

John Merrell - Tacoma Public Utilities (Tacoma, WA) - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Steven Powell - Trans Bay Cable LLC - N	IA - Not Applicable - WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Amy Casuscelli - Amy Casuscelli On Bel	nalf of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Michelle Amarantos - APS - Arizona Public Service Co 1		
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Kayleigh Wilkerson - Lincoln Electric Sy	stem - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Neil Swearingen - Salt River Project - 1,3	5,5,6 - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Preston Walker - PJM Interconnection, L	L.C 2 - SERC,RF
Answer	Yes
Document Name	
Comment	
Likes 3	PSEG - PSEG Energy Resources and Trade LLC, 6, Barton Karla; PSEG - Public Service Electric and Gas Co., 3, Mueller Jeffrey; PSEG - Public Service Electric and Gas Co., 1, Smith Joseph
Dislikes 0	
Response	

Sarah Gasienica - NiSource - Northern Indiana Public Service Co 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Quintin Lee - Eversource Energy - 1, Gro	pup Name Eversource Group	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
sean erickson - Western Area Power Adı	ministration - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Dennis Chastain - Tennessee Valley Authority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority		
Answer	Yes	
Document Name		
Comment		

Likes 0		
Dislikes 0		
Response		
Shannon Mickens - Southwest Power Po	ool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Joe Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Hevin Smith, Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Joe Tarantino		
Answer	Yes	
Document Name		
Comment		
Likes 0		
D'all and O		
Dislikes 0		
Response		

14. Do you agree that the information identified in Requirement R6 is necessary for each impacted RC and TOP to properly evaluate instability, Cascading, or uncontrolled separation identified in planning assessments for use in establishing stability limits and IROLs in the operations horizon? If not, please explain and provide alternative language.		
Lauren Price - American Transmission C	ompany, LLC - 1 - MRO,RF	
Answer	No	
Document Name		
Comment		
We disagree that Near-Term Transmission Planning Horizon and Transfer Capability Assessments will necessarily be useful for establishing stability limits and IROLs in the operating horizon because the basis for planning horizon assessments [transmission planning system models (e.g. firm loads, firm transfers, and generation dispatch) and applicable contingencies] are quite different from the basis for operating horizon assessments. It also seems that the burden on the PCs to prepare the required information packages for potentially impacted RCs and TOPs will not be commensurate with the limited benefit that it may provide to RCs and TOPs. It would be more reasonable, clear cut, and pose less compliance risk to require PCs to simply provide their Near-Term Transmission Planning Horizon and Transfer Capability Assessments to the RCs and TOPs within and adjacent to their area. The RCs and TOPs would then decide from themselves whether any information in these documents may be interest or impact them. Likes 0 Dislikes 0		
Response		
Leonard Kula - Independent Electricity S		
Answer	No	
Document Name Comment		
FAC-15-1 Requirement R6 is a step in the right direction. However, FAC-15-1 should address that Planning Assessments and Operations studies for derivation of SOLs and IROLs are not of the same scope in terms of number of facilities considered out of service. Therefore simply enforcing that the performance criterion used in the Planning Assessment be more restrictive than that used in Operations does not materially improve the operability of planned facilities. The scope of the studies in the Operations Horizon should be increased to bridge this gap through Requirements in FAC-11-4 and FAC-14-3.		
Likes 0		
Dislikes 0		
Response		
Allie Gavin - Allie Gavin On Behalf of: Mi	chael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin	

Document Name	
Comment	
	pliance burden on the PC. If the RCs and TOPs believe that this information is important for them to obtain, a PL-001 standard or at least the IRO-017 standard verses creating another new standard that requires the PC PL standard to the RC and the TOP.
Likes 0	
Dislikes 0	
Response	
Janis Weddle - Public Utility District No.	1 of Chelan County - 6, Group Name Chelan PUD
Answer	No
Document Name	
Comment	
Cascading, or uncontrolled separation if the relays from tripping. The system performan then be provided. As these additional simul proposed FAC-015-1 R6.4 should have the addressed under the TPL-001-4 standard.	In present in the simulation. In order to make this determination (whether there would have been instability, by had not tripped), an entity would have to run a second set of simulations blocking all UFLS and UVLS are could then be assessed and the information in FAC-015-1 R6.4 related to UFLS and UVLS relays could lations would represent additional burden to the work performed under TPL-001-4, CHPD feels that the items related to UVLS and UFLS removed from the criteria. If this is a reliability objective, it should be
Likes 0	
Dislikes 0	
Response	
Bridget Silvia - Sempra - San Diego Gas	and Clastria 2
Answer	No
Document Name	
Comment	
Comment	
Need more specific with property data espe	ecially "switching data".
Likes 0	
Dislikes 0	
Response	

John Seelke - LS Power Transmission, LLC - 1		
Answer	No	
Document Name		
Comment		
See the response to Q16.		
Likes 0		
Dislikes 0		
Response		
Pamela Hunter - Southern Company - So	outhern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company	
Answer	No	
Document Name		
Comment		
Coordinator to alert the RC to scenarios that methodology. Suggest rewording R6 to: "E instability, Cascading, or" However, is on the RC's SOL methodology	or uncontrolled separation" as stated in R6 may not be clear to all that the purpose is for the Planning at have the potential to be categorized as IROLs in the Operations arena based on the RC's SOL Each Planning Coordinator shall communicate scenarios that demonstrated IROL type conditions such as t should be made clear that the RC would make the determination if it would be considered an IROL based	
Likes 0		
Dislikes 0		
Response		
Mike Smith - Manitoba Hydro - 1, Group Name Manitoba Hydro		
Answer	No	
Document Name		
Comment		
communicated. Does the RC need or want	13-2. The current language states that "any" instability, Cascading or uncontrolled separation should be to know about extreme disturbances or only P1-P7 events? It makes more sense to share the Planning sments to the RC as part of the relevant standards.	
Likes 0		
Dislikes 0		

Response	
Aaron Cavanaugh - Bonneville Power Ad	ministration - 1,3,5,6 - WECC
Answer	No
Document Name	
Comment	
	r planning standards, such as TPL-001-4 and IRO-017-1. The objective could be better accomplished by requirement in existing planning standards.
	vide the system assessment to their RC. Any identified instability would be included in the system to inform the TOP in the RC area. TPL-001-4 also requires the PCs and TPs to share the system
Likes 0	
Dislikes 0	
Response	
Gladys DeLaO - CPS Energy - 1	
Answer	Yes
Document Name	
Comment	
	nd timeframes studied in the Planning Assessment. Additional operational analyses may be needed for part of the conditions and timeframes addressed by the Planning Assessment.
Likes 0	
Dislikes 0	
Response	
Laurie Williams - PNM Resources - Publi	c Service Company of New Mexico - 1
Answer	Yes
Document Name	
Comment	

PNMR agrees with the information provided in R6. However, PNMR believes that R6 should be included in TPL-001 and should not result in a new FAC standard.

Likes 0	
Dislikes 0	
Response	
James Grimshaw - CPS Energy - 3	
Answer	Yes
Document Name	
Comment	
	and timeframes studied in the Planning Assessment. Additional operational analyses may be needed for part of the conditions and timeframes addressed by the Planning Assessment.
Likes 0	
Dislikes 0	
Response	
Colby Bellville - Duke Energy - 1,3,5,6 - F	FRCC,SERC,RF, Group Name Duke Energy
Answer	Yes
Document Name	
Comment	
	om the drafting team on the types of events that require communication from the PC to the RC and TOP in C shall communicate to the RC and TOP of "any" instances of instability, Cascading or uncontrolled liftyearsesessment of the Near
Likes 0	
Dislikes 0	
Response	
Shivaz Chopra - New York Power Author	rity - 1,3,5,6
Answer	Yes
Document Name	
Comment	

Supporting NPCC comments	
Likes 0	
Dislikes 0	
Response	
Scott Downey - Peak Reliability - 1	
Answer	Yes
Document Name	
Comment	
(UVLS) action, underfrequency load sheddi address the instability, Cascading or uncom- and the measures that were taken in the Pla understanding what kinds of risks for instab- listed in subpart 6.4. This unawareness can unavailable in operations. It is critical that the Planning Assessment so that these risks can	which requires communication of "Any Remedial Action Scheme action, undervoltage load shedding ing (UFLS) action, interruption of Firm Transmission Service, or Non ectional Loss required to itrolled separation;" This information is critical for the RC understanding the risks that have been identified anning Assessments to address the risk. If this information is not provided, the RC has no way of knowing or bility, Cascading, or uncontrolled separation that were identified and successfully mitigated via the measures in have significant adverse reliability consequences if the associated automatic schemes are rendered the RC understand the risks that were identified and the means by which those risks were mitigated in the an be addressed in operations through the development of Operating Plans.
Likes 0	
Dislikes 0	
Response	
Cynthia Kneisl - Midwest Reliability Orga	anization - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF
Answer	Yes
Document Name	
Comment	
Transmission Planners as well. Although the the information back to the impacted TPs for LES recommends the following change to F	nation with each impacted Transmission Planner, shall communicate any instability, Cascading or ts Planning Assessment of the Near aளிசிசா சேஷன்ப்ப்
Likes 0	
Dislikes 0	

Response		
Faz Kasraie - Faz Kasraie On Behalf of:	Mike Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie	
Answer	Yes	
Document Name		
Comment		
Yes, I think it is appropriate to provide this i	nformation. As with above, I think it should be addressed in the TPL-001 standard (as part of R8 perhaps).	
Likes 0		
Dislikes 0		
Response		
Kayleigh Wilkerson - Lincoln Electric Sy	stem - 5	
Answer	Yes	
Document Name		
Comment		
In addition to the communication of information to impacted RCs and TOPs, LES believes consideration should be given to including impacted Transmission Planners as well. Although the information is needed primarily by the RCs and TOPs, there is not currently a mechanism to communicate the information back to the impacted TPs for continued awareness. To ensure all parties remain aware of potential issues identified in the assessments, LES recommends the following change to R6: R6. Each Planning Coordinator, in coordination with each impacted Transmission Planner, shall communicate any instability, Cascading or uncontrolled separation identified in either its Planning Assessment of the Near		
assessment to each impacted Reliability Co	pordinator and Transmission Operator.	
Likes 0		
Dislikes 0		
Response		
Robert Blackney - Edison Electric Institute - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		

SCE recommends one more additional sub-bullet be added such that the PC shall communicate any assumptions of system conditions critical in its identification of instability, Cascading or uncontrolled separation (such as load levels, local generation assumptions, etc). It is probably obvious but R6

does not currently require it.	
Likes 0	
Dislikes 0	
Response	
Ginette Lacasse - Seattle City Light - 1,3,	,4,5,6 - WECC, Group Name Seattle City Light Ballot Body
Answer	Yes
Document Name	
Comment	
Yes, I think it is appropriate to provide this i	nformation. As with above, I think it should be addressed in the TPL-001 standard (as part of R8 perhaps).
Likes 0	
Dislikes 0	
Response	
Municipal Utility District, 4, 1, 5, 6, 3; Jan Northern California, 1; Nicole Looney, Sa 5, 6, 3; - Joe Tarantino	of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento nie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of acramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1,
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michael Jones - National Grid USA - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0	
Response	
Brian Van Gheem - ACES Power Marketi	ng - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Elizabeth Axson - Electric Reliability Cou	uncil of Texas, Inc 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Great Plains Energy - Kansas City Powe	olf of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, r and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light s Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kevin Salsbury - Berkshire Hathaway - N	IV Energy - 5

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gregory Campoli - New York Independer	nt System Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Southwest Power Po	ool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0		
Response		
David Jendras - Ameren - Ameren Service	ces - 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Dennis Chastain - Tennessee Valley Aut	hority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
sean erickson - Western Area Power Administration - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Brandon McCormick - Brandon McCormick On Behalf of: Carol Chinn, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida Municipal Power Agency, 6, 4, 3, 5; Joe McKinney, Florida Municipal Power Agency, 6, 4, 3, 5; Ken Simmons, Gainesville Regional Utilities, 1, 3, 5; Randy Hahn, Ocala Utility Services, 3; Richard Montgomery, Florida Municipal Power Agency, 6, 4, 3, 5; Tom Reedy, Florida Municipal

Power Pool, 6; - Brandon McCormick, Group Name FMPA		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mark Riley - Associated Electric Coopera	ative, Inc 1, Group Name AECI & Member G&Ts	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Quintin Lee - Eversource Energy - 1, Gro	pup Name Eversource Group	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Julie Hall - Entergy - 6		
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Daniel Grinkevich - Con Ed - Consolidate	ed Edison Co. of New York - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Sarah Gasienica - NiSource - Northern Ir	ndiana Public Service Co 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Preston Walker - PJM Interconnection, L	.L.C 2 - SERC,RF
Answer	Yes
Document Name	
Comment	
Likes 3	PSEG - PSEG Energy Resources and Trade LLC, 6, Barton Karla; PSEG - Public Service Electric and Gas Co., 3, Mueller Jeffrey; PSEG - Public Service Electric and Gas Co., 1, Smith Joseph
Dislikes 0	
Response	

Neil Swearingen - Salt River Project - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Donald Hargrove - OGE Energy - Oklaho	ma Gas and Electric Co 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Wendy Center - U.S. Bureau of Reclamat	tion - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Michelle Amarantos - APS - Arizona Public Service Co 1		
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Amy Casuscelli - Amy Casuscelli On Ber	nalf of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Steven Powell - Trans Bay Cable LLC - N	A - Not Applicable - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
John Merrell - Tacoma Public Utilities (Ta	acoma, WA) - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thomas Foltz - AEP - 5	

Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Richard Vine - California ISO - 2		
Answer		
Document Name		
Comment		
As required by TPL 001-4, planning coordinators implement corrective action plans for any instability, Cascading, or uncontrolled separation identified in planning assessments due to planning events involving single or multiple contingencies. Providing this information to RC may be useful if the corrective action plan is establishing an SOL. On the other hand, providing this information to RC may not be useful if the corrective action plan is transmission development.		
Likes 0		
Dislikes 0		
Response		

stipulated in Requirement R6, are the ap	ssment of the Near-Term Transmission Planning Horizon and the Transfer Capability assessment, as propriate assessments for identifying any instability, Cascading, or uncontrolled separation in the supporting rationale; if no, please explain and provide alternative language.
Pamela Hunter - Southern Company - So	outhern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company
Answer	No
Document Name	
Comment	
Reference justification and alternative langu	uage proposed as part of the answer for the previous question (i.e., Question 14).
Likes 0	
Dislikes 0	
Response	
John Seelke - LS Power Transmission, L	LC - 1
Answer	No
Document Name	
Comment	
See the response to Q16.	
Likes 0	
Dislikes 0	
Response	
Janis Weddle - Public Utility District No.	1 of Chelan County - 6, Group Name Chelan PUD
Answer	No
Document Name	
Comment	
	bility criteria, instability criteria, document UFLS or UVLS relay operation, or include Corrective action plans. It ransfer Capability assessment be removed from the proposed FAC-015-1 R6.
Likes 0	
Dislikes 0	

Response		
Terri Pyle - OGE Energy - Oklahoma Gas and Electric Co 1		
Answer	No	
Document Name		
Comment		
Please refer to the comments submitted by	the SPP Standards Review Group.	
Likes 0		
Dislikes 0		
Response		
Richard Vine - California ISO - 2		
Answer	No	
Document Name		
Comment		
horizon that is not mitigated by corrective a	propriate assessment for identifying any instability, Cascading, or uncontrolled separation in the planning ction plans such as transmission development. TPL001-4 planning assessments require the PC to model ut do not require stressing the system to identify its limits. Transfer Capability assessment is only applicable	
Likes 0		
Dislikes 0		
Response		
Aaron Cavanaugh - Bonneville Power Administration - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		
	e appropriate assessments to identify system instability and cascading outages in the planning horizon. ew standard. The objective is already addressed by TPL-001-4.	
Likes 0		
Dislikes 0		

Response		
Ginette Lacasse - Seattle City Light - 1,3	,4,5,6 - WECC, Group Name Seattle City Light Ballot Body	
Answer	Yes	
Document Name		
Comment		
Yes, with the same comment as question 1 Capability Assessment results to impacted	4, with the addition that the FAC-013 standard is the appropriate place to require supplying Transfer RCs and TOPs.	
Likes 0		
Dislikes 0		
Response		
Robert Blackney - Edison Electric Institu	ıte - 1,3,5,6 - WECC	
Answer	Yes	
Document Name		
Comment		
	-001-4, the Planning Assessment must identify any Near-Term Transmission Planning Horizon instability, proposed FAC-015-1 R6 correctly references the reliability objective accomplished by TPL-001-4.	
Likes 0		
Dislikes 0		
Response		
Wendy Center - U.S. Bureau of Reclamat	tion - 5	
Answer	Yes	
Document Name		
Comment		
Reclamation supports the Planning Assessing stipulated in Requirement R6, because the	ment of the Near-Term Transmission Planning Horizon and the Transfer Capability assessment, as se items properly identify potential risks.	
Likes 0		
Dislikes 0		

Response		
Mike Smith - Manitoba Hydro - 1, Group	Name Manitoba Hydro	
Answer	Yes	
Document Name		
Comment		
These assessments look at extreme disturb to identify instability, Cascading or uncontrol	cances or non-firm transfers and would be the appropriate studies in the Planning Horizon that would be able colled separation if these concerns existed.	
Likes 0		
Dislikes 0		
Response		
Faz Kasraie - Faz Kasraie On Behalf of:	Mike Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie	
Answer	Yes	
Document Name		
Comment		
Yes, with the same comment as question 1 Capability Assessment results to impacted	4, with the addition that the FAC-013 standard is the appropriate place to require supplying Transfer RCs and TOPs.	
Likes 0		
Dislikes 0		
Response		
Cynthia Kneisl - Midwest Reliability Orga	anization - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF	
Answer	Yes	
Document Name		
Comment		
responsible for operating the system.	Horizon is the closest to operating horizons, these are the most relevant results to pass on to those	
Likes 0		

Dislikes 0	
Response	
Scott Downey - Peak Reliability - 1	
Answer	Yes
Document Name	
Comment	
and Transfer Capability assessments are re the first limitation encountered could be a st thermal or steady-state voltage limitation is	e reflective of those assessments required by the NERC Reliability Standards. Both Planning Assessments quired by the standards. Furthermore, it is possible that when performing Transfer Capability assessments, ability limit (i.e., as power is transferred across an interface, a stability limitation is reached before any reached). Because this is an operational possibility, Peak believes that Transfer Capability assessments s Transfer Capability assessments should be included in R1 through R3.
Likes 0	
Dislikes 0	
Response	
Shivaz Chopra - New York Power Author	ity - 1,3,5,6
Answer	Yes
Document Name	
Comment	
Supporting NPCC comments	
Likes 0	
Dislikes 0	
Response	
Daniel Grinkevich - Con Ed - Consolidate	ed Edison Co. of New York - 1
Answer	Yes
Document Name	
Comment	
No comments.	
Likes 0	

Dislikes 0		
Response		
David Jendras - Ameren - Ameren Servic	es - 3	
Answer	Yes	
Document Name		
Comment		
The PC also needs to send the results of its happen before the results are sent to the R0	Planning Assessment or Transfer Capability Assessment to its Transmission Planners. This activity should C and TOP.	
Likes 0		
Dislikes 0		
Response		
Gregory Campoli - New York Independer	nt System Operator - 2	
Answer	Yes	
Document Name		
Comment		
Note: CAISO does not support this respons	e.	
Likes 0		
Dislikes 0		
Response		
Kevin Salsbury - Berkshire Hathaway - NV Energy - 5		
Answer	Yes	
Document Name		
Comment		
Near-term TP horizon is the closest to opera	ating horizon	
Likes 0		
Dislikes 0		
Resnonse		

James Grimshaw - CPS Energy - 3		
Answer	Yes	
Document Name		
Comment		
One of the purposes of the Planning Assessiong-term transmission planning horizons.	sment is to capture any anticipated instability, Cascading or uncontrolled separation in the near-term and	
Likes 0		
Dislikes 0		
Response		
Leonard Kula - Independent Electricity S	ystem Operator - 2	
Answer	Yes	
Document Name		
Comment		
We concur that both assessments for the N used because they are the closest to the O	ear-term Planning Horizon under TPL-001 and for transfer capability under FAC-013 are appropriate to be perations Horizon.	
Likes 0		
Dislikes 0		
Response		
Laurie Williams - PNM Resources - Publi	c Service Company of New Mexico - 1	
Answer	Yes	
Document Name		
Comment		
PNMR agrees with the assessments as stip new FAC standard.	oulated in R6, however, PNMR believes that R6 should be included in TPL-001 and should not result in a	
Likes 0		
Dislikes 0		
Response		

Comment Com	Gladys DeLaO - CPS Energy - 1		
Comment Com	Answer	Yes	
One of the purposes of the Planning Assessment is to capture any anticipated instability, Cascading or uncontrolled separation in the near-term and ong-term transmission planning horizons. ikes 0 Response Oce Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of Idorthern California, 1; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of Idorthern California, 1; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 6, 3; -Joe Tarantino Inswer Yes Comment Comment Clanning Assessment of the Near-Term Transmission Planning Horizon and the Transfer Capability assessment, as stipulated in Requirement R6, are the appropriate assessments for identifying any instability, Cascading, or uncontrolled separation in the planning horizon. However, due to BES system topology differences between the Planning Horizon (usually all facility in-service) and Operations Horizon (N-1 or N-1 out of service due to Idanned or forced) then instability, Cascading, or uncontrolled separation MAY NOT be identified in the Planning Assessment during the Near-Term Transmission Planning Horizon and the Transfer Capability assessment. In the Operations Horizon, the Operating Planning Analyses (OPA) could and nay still identify instability, Cascading, or uncontrolled separation due to latest BES modeling to real-time. Identify instability, Cascading, or uncontrolled separation due to latest BES modeling to real-time.	Document Name		
ong-term transmission planning horizons. dikes 0 desponse doe Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of forthern California, 1; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 6, 3; - Joe Tarantino Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Comment		
Response One Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Jamie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of forthern California, 1; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municip	One of the purposes of the Planning Assessiong-term transmission planning horizons.	sment is to capture any anticipated instability, Cascading or uncontrolled separation in the near-term and	
the Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of forthern California, 1; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility	Likes 0		
toe Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of Horthern California, 1; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 6, 6, 3; - Joe Tarantino Nanswer Ves Comment Comment	Dislikes 0		
Municipal Utility District, 4, 1, 5, 6, 3; Jamie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of Jorthern California, 1; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 6, 6, 3; Doe Tarantino Yes Document Name Planning Assessment of the Near-Term Transmission Planning Horizon and the Transfer Capability assessment, as stipulated in Requirement R6, are the appropriate assessments for identifying any instability, Cascading, or uncontrolled separation in the planning horizon. However, due to BES yestem topology differences between the Planning Horizon (usually all facility in-service) and Operations Horizon (N-1 or N-1 out of service due to Islanned or forced) then instability, Cascading, or uncontrolled separation MAY NOT be identified in the Planning Assessment during the Near-Term fransmission Planning Horizon and the Transfer Capability assessment. In the Operations Horizon, the Operating Planning Analyses (OPA) could and may still identify instability, Cascading, or uncontrolled separation due to latest BES modeling to real-time. Also, the requirement for communicating Facility Rating appears to be redundant to the FAC-008 Reliability Standard.	Response		
Municipal Utility District, 4, 1, 5, 6, 3; Jamie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of Jorthern California, 1; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 6, 6, 3; Doe Tarantino Yes Document Name Planning Assessment of the Near-Term Transmission Planning Horizon and the Transfer Capability assessment, as stipulated in Requirement R6, are the appropriate assessments for identifying any instability, Cascading, or uncontrolled separation in the planning horizon. However, due to BES ystem topology differences between the Planning Horizon (usually all facility in-service) and Operations Horizon (N-1 or N-1 out of service due to Islanned or forced) then instability, Cascading, or uncontrolled separation MAY NOT be identified in the Planning Assessment during the Near-Term transmission Planning Horizon and the Transfer Capability assessment. In the Operations Horizon, the Operating Planning Analyses (OPA) could and may still identify instability, Cascading, or uncontrolled separation due to latest BES modeling to real-time. Also, the requirement for communicating Facility Rating appears to be redundant to the FAC-008 Reliability Standard.			
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Planning Assessment of the Near-Term Transmission Planning Horizon and the Transfer Capability assessment, as stipulated in Requirement R6, are the appropriate assessments for identifying any instability, Cascading, or uncontrolled separation in the planning horizon. However, due to BES ystem topology differences between the Planning Horizon (usually all facility in-service) and Operations Horizon (N-1 or N-1 out of service due to planned or forced) then instability, Cascading, or uncontrolled separation MAY NOT be identified in the Planning Assessment during the Near-Term transmission Planning Horizon and the Transfer Capability assessment. In the Operations Horizon, the Operating Planning Analyses (OPA) could and may still identify instability, Cascading, or uncontrolled separation due to latest BES modeling to real-time.	Answer	Yes	
Planning Assessment of the Near-Term Transmission Planning Horizon and the Transfer Capability assessment, as stipulated in Requirement R6, are the appropriate assessments for identifying any instability, Cascading, or uncontrolled separation in the planning horizon. However, due to BES ystem topology differences between the Planning Horizon (usually all facility in-service) and Operations Horizon (N-1 or N-1 out of service due to planned or forced) then instability, Cascading, or uncontrolled separation MAY NOT be identified in the Planning Assessment during the Near-Term transmission Planning Horizon and the Transfer Capability assessment. In the Operations Horizon, the Operating Planning Analyses (OPA) could and may still identify instability, Cascading, or uncontrolled separation due to latest BES modeling to real-time.	Document Name		
the appropriate assessments for identifying any instability, Cascading, or uncontrolled separation in the planning horizon. However, due to BES ystem topology differences between the Planning Horizon (usually all facility in-service) and Operations Horizon (N-1 or N-1 out of service due to planned or forced) then instability, Cascading, or uncontrolled separation MAY NOT be identified in the Planning Assessment during the Near-Term transmission Planning Horizon and the Transfer Capability assessment. In the Operations Horizon, the Operating Planning Analyses (OPA) could and may still identify instability, Cascading, or uncontrolled separation due to latest BES modeling to real-time. Also, the requirement for communicating Facility Rating appears to be redundant to the FAC-008 Reliability Standard.	Comment		
ikes 0	Planning Assessment of the Near-Term Transmission Planning Horizon and the Transfer Capability assessment, as stipulated in Requirement R6, are the appropriate assessments for identifying any instability, Cascading, or uncontrolled separation in the planning horizon. However, due to BES system topology differences between the Planning Horizon (usually all facility in-service) and Operations Horizon (N-1 or N-1 out of service due to planned or forced) then instability, Cascading, or uncontrolled separation MAY NOT be identified in the Planning Assessment during the Near-Term Transmission Planning Horizon and the Transfer Capability assessment. In the Operations Horizon, the Operating Planning Analyses (OPA) could and may still identify instability, Cascading, or uncontrolled separation due to latest BES modeling to real-time. Also, the requirement for communicating Facility Rating appears to be redundant to the FAC-008 Reliability Standard.		
desponse	Response		

Lauren Price - American Transmission Company, LLC - 1 - MRO,RF		
Answer	Yes	
Document Name		
Comment		
We think that it is unnecessary and less wor assumptions (load, generation, transfers, et useful and subject to change than the Near-	rthwhile to include the Long-Term Planning Horizon (6 - 10 years in the future) because the future system c.) are more uncertain and speculative than the Near-Term Planning Horizon. So, the results would be less Term Planning Horizon results.	
Likes 0		
Dislikes 0		
Response		
Thomas Foltz - AEP - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
John Merrell - Tacoma Public Utilities (Ta	acoma, WA) - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Steven Powell - Trans Bay Cable LLC - N	A - Not Applicable - WECC	
Answer	Yes	
Document Name		

Comment		
Likes 0		
Dislikes 0		
Response		
Amy Casuscelli - Amy Casuscelli On Bel	nalf of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Michelle Amarantos - APS - Arizona Pub	lic Service Co 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kayleigh Wilkerson - Lincoln Electric System - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Neil Swearingen - Salt River Project - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Preston Walker - PJM Intercor	nnection, L.L.C 2 - SERC,RF	
Answer	Yes	
Document Name		
Comment		
Likes 3	PSEG - PSEG Energy Resources and Trade LLC, 6, Barton Karla; PSEG - Public Service Electric and Gas Co., 3, Mueller Jeffrey; PSEG - Public Service Electric and Gas Co., 1, Smith Joseph	
Dislikes 0		
Response		
Sarah Gasienica - NiSource -	Northern Indiana Public Service Co 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Bridget Silvia - Sempra - San	Diego Gas and Electric - 3	
Answer	Yes	
Document Name		

Comment		
Likes 0		
Dislikes 0		
Response		
Colby Bellville - Duke Energy - 1,3,5,6 - F	RCC,SERC,RF, Group Name Duke Energy	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Julie Hall - Entergy - 6		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mark Riley - Associated Electric Cooperative, Inc 1, Group Name AECI & Member G&Ts		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Brandon McCormick - Brandon McCormick On Behalf of: Carol Chinn, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida Municipal Power Agency, 6, 4, 3, 5; Joe McKinney, Florida Municipal Power Agency, 6, 4, 3, 5; Ken Simmons, Gainesville Regional Utilities, 1, 3, 5; Randy Hahn, Ocala Utility Services, 3; Richard Montgomery, Florida Municipal Power Agency, 6, 4, 3, 5; Tom Reedy, Florida Municipal Power Pool, 6; - Brandon McCormick, Group Name FMPA	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
sean erickson - Western Area Power Adı	ministration - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Allie Gavin - Allie Gavin On Behalf of: Mi	chael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Aut	hority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority
Answer	Yes

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Great Plains Energy - Kansas City Power	If of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, r and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light s Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Elizabeth Axson - Electric Reliability Cou	ıncil of Texas, Inc 2
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0		
Response		
Brian Van Gheem - ACES Power Marketi	ng - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Michael Jones - National Grid USA - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

16. If you have any other comments that you haven't already provided in response to questions 11-15, please provide them here.	
Elizabeth Axson - Electric Reliability Council of Texas, Inc 2	
Answer	
Document Name	
Comment	

ERCOT Comments:

Requirements R1, R2, and R3 contain similar language that generally requires the PC's Planning Assessments to use limits that are "equally limiting or more limiting" than the limits established pursuant to the RC's methodology. Each of these requirements also includes a second sentence that appears to allow the PC to use a less limiting value when the PC has a legitimate technical justification for doing so. This second sentence technically contradicts the first sentence. ERCOT proposes additional revisions to clarify that the second sentence operates as an exception to the first sentence.

Also, Requirements R1, R2, and R3 do not specify whether the technical justification provided by the PC must be acceptable to (or accepted by) the RC. In the event of a disagreement between the PC and RC, ERCOT suggests that the rule should be clear as to which entity's determination prevails. ERCOT presumes the RC's determination should prevail in such an event since the RC has ultimate responsibility for overseeing the SOL methodology under proposed FAC-011, Requirement R1. Allowing the PC what amounts to unilateral discretion in establishing limits would undermine the principle that the RC's SOL methodology should generally govern, as reflected in the first sentence of Requirements R1, R2, and R3 in FAC-015. ERCOT therefore recommends revisions to the last sentence of each of these three requirements.

The following revisions reflect both of the changes described above:

R1. Each Planning Coordinator, when developing its steady Ratings used in its Planning Assessment of the Near

-stater tHannrthousenessnasskinsmeÆllar

in accordance with its Reliability Coordinator's SOL Methodology, **except that** the Planning Coordinator **may** use less limiting Facility Ratings than the Facility Ratings established in accordance with its Reliability Coordinator's SOL methodology **if**, the Planning Coordinator **provides** a technical justification **that is accepted by** its Reliability Coordinator.

R2. Each Planning Coordinator shall implement a process to ensure that System steady state voltage limits used in its Planning Assessment of the Near

Reliability Coordinator's SOL Methodology, **except that** the Planning Coordinator **may use** less limiting System steady

System Voltage Limits established in accordance with its Reliability Coordinator's SOL Methodology if the Planning Coordinator **provides** a technical justification t**hat is accepted by** its Reliability Coordinator.

R3. Each Planning Coordinator shall implement a process to ensure the stability performance criteria used in its Planning Assessment of the Near

Coordinator's SOL Methodology, *except that* the Planning Coordinator *may use* less limiting stability performance criteria than the stability performance criteria specified in its Reliability Coordinator's SOL Methodology if the Planning Coordinator *provides* a technical justification that is *accepted by its* Reliability Coordinator.

****Please refer to the attached comment fo	orm for redlined language.
Likes 0	
Dislikes 0	
Response	
Brian Van Gheem - ACES Power Marketin	ng - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators
Answer	
Document Name	
Comment	
standard does not make this distinc	ences to a RC's SOL Methodology is done, as required, per Reliability Standard FAC-011-4. The proposed tion. It R4 do not identify a failure to provide SOL information to requesting PCs.
Likes 0	
Dislikes 0	
Response	
Michael Jones - National Grid USA - 1	
Answer	
Document Name	
Comment	
National Grid supports the NPCC RSC Grou	up comments.
Additional comments for consideration:	
	the TP is not included in the PC's communication of any instability, Cascading or uncontrolled separation of the Near-Term Transmission Planning Horizon or its Transfer Capability assessment FAC-015-1,
related to angle stability) as well as voltage R3 (et.al.) is not clearly defined. We sugges which states that each TP and PC shall hav	slogy related to definitions of stability concepts regarding both transient stability and small signal-stability (as stability, the requirement to implement a process related to the stability performance criteria in Requirement st revising by using language related to Requirement R4 and R5 in NERC Reliability Standard TPL-001-4, re "criteria for acceptable System steady state voltage limits, post-Contingency voltage deviations, and the nd "criteria for acceptable System steady state voltage limits, post-Contingency voltage deviations, and the
Likes 0	
Dislikes 0	
Response	

Lauren Price - American Transmission C	ompany, LLC - 1 - MRO,RF
Answer	
Document Name	
Comment	
Not applicable.	
Likes 0	
Dislikes 0	
Response	
Municipal Utility District, 4, 1, 5, 6, 3; Jan	of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento nie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of acramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1
Answer	
Document Name	
Comment	
voltage limits, and stability performance cr Coordinator's". Entities understand that th (TP). With that said, TPs are much closer to to provide 'Facility Ratings and System stea System steady-state voltage limits' to the R limits' to TOPs. As proposed R4, the PC wil	5-1. R4 stated that "Each Planning Coordinator shall provide the Facility Ratings, System steady-state iteria for use in its Planning Assessment to its Transmission Planners and to requesting Planning here will need to be two-ways communication between Planning Coordinator (PC) and Transmission Planner of the source of 'Facility Ratings and System steady-state voltage limits'. It would make better sense for TP ady-state voltage limits' to PC and consistent to the current practice of TOPs providing 'Facility Ratings and CC. The R4 as proposed is as having the RC providing 'Facility Ratings and System steady-state voltage I need to request the 'Facility Ratings and System steady-state voltage limits' from the TP and/or TPs and /TPs. As drafted, R4 is an effort that involved extra man power and time with no benefit.
Likes 0	
Dislikes 0	
Response	

Douglas Webb - Douglas Webb On Behalf of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; John Carlson, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb

Answer	
Document Name	
Comment	
None.	
Likes 0	
Dislikes 0	
Response	
James Grimshaw - CPS Energy - 3	
Answer	
Document Name	
Comment	
FAC-015 Requirement R5 is inappropriately should be housed within the TPL-001 stand	placed outside of the TPL-001 standard. We believe all requirements to perform the Planning Assessment ard to avoid confusion or double work.
Likes 0	
Dislikes 0	
Response	
Gladys DeLaO - CPS Energy - 1	
Answer	
Document Name	
Comment	
FAC-015 Requirement R5 is inappropriately should be housed within the TPL-001 stand	placed outside of the TPL-001 standard. We believe all requirements to perform the Planning Assessment lard to avoid confusion or double work.
Likes 0	
Dislikes 0	
Response	
Leonard Kula - Independent Electricity S	ystem Operator - 2
Answer	

Document Name	
Comment	
and IROLs are not of the same scope in ter- used in the Planning Assessment be more	owever, FAC-15-1 should address that Planning Assessments and Operations studies for derivation of SOLs ms of number of facilities considered out of service. Therefore simply enforcing the performance criterion restrictive than that used in Operations does not materially improve the operability of planned facilities. The zon should be increased to bridge this gap through Requirements in FAC-11-4 and FAC-14-3.
Likes 0	
Dislikes 0	
Response	
Laurie Williams - PNM Resources - Publi	c Service Company of New Mexico - 1
Answer	
Document Name	
Comment	
for the single contingency be used for both contingency definition in FAC-011-4?	ntingency. If the RC defines criteria for single and multiple contingency based on FAC-011-4, will the criteria P1 and P2 events of TPL-001 even though the contingency definition of P2 does not match the single tents that should be part of the TPL-001 Planning Assessment. Instead of creating a separate standard, e revised to include the new requirements.
Dislikes 0	
Response	
Allie Gavin - Allie Gavin On Behalf of: Mi	chael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin
Answer	
Document Name	
Comment	
those required items from this proposed nev	etter positioned in the TPL-001 standard. A SAR should be drafted to open the TPL-001 standard to include w standard rather than creating a new standard. Coordination of criteria could then be determined between standard R7 rather than by this new standard by parties familiar with the information in the local regions.
Likes 0	
Dislikes 0	

Response	
Gregory Campoli - New York Independent System Operator - 2	
Answer	
Document Name	
Comment	
More clarification is needed related to the identification of Facility Ratings. As the Transmission Owners are already obligated to operating ratings under FAC-008-3 and MOD-032-1, the burden of establishing a technical justification for potentially different rating and operations should be placed upon Functional Entities who own facilities (such as Transmission or Generation). The drafting asset owners typically provide multiple ratings for a given asset based on various conditions and the intent of this standard is to PC pick those ratings is consistent. Note: ERCOT does not support this response.	tings used in planning team should clarify that
Likes 0	
Dislikes 0	
Response	
Richard Vine - California ISO - 2	
Answer	
Document Name	
Comment	
The existing FAC-010, FAC-011, and FAC-014 framework provides the required coordination between planning and operation haplanning coordinator perspective.	orizons from the
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA	A Con-Ed
Answer	
Document Name	

More clarification is needed related to the identification of Facility Ratings. As the Transmission Owners are already obligated to provide planning and operating ratings under FAC-008-3 and MOD-032-1, the burden of establishing a technical justification for potentially different ratings used in planning

	gs for a given asset based on various conditions and the intent of this standard is to ensure how the RC and
Likes 0	
Dislikes 0	
Response	
Janis Weddle - Public Utility District No.	1 of Chelan County - 6, Group Name Chelan PUD
Answer	
Document Name	
Comment	
Planning Assessments that could impact the Reliability Coordinator to the distribution of Coordinators and Transmission Planners. T	for the Planning Coordinator to make the Reliability Coordinator aware of system issues identified in the e Operations timeframe. CHPD recommends that the TPL-001-4 standard, R8, be modified to add the the Planning Assessment by the Planning Coordinator and Transmission Planner to adjacent Planning TPL-001-4 R8 allows the Reliability Coordinator to request this document already, but it would make sense to y Transmission Operator) to the mandatory Planning Assessment distribution in order to pass on the issues erations for the planning horizon.
Likes 0	
Dislikes 0	
Response	
David Jendras - Ameren - Ameren Service	es - 3
Answer	
Document Name	
Comment	
or uncontrolled separation in either its Planr	-015 is missing a requirement (R7) for the Transmission Planners to communicate any instability, Cascading, ning Assessment information to its TOP, PC, and RC (similar to R6). This requirement would be a slight on should be given to moving this requirement to the new FAC-015-1 standard to keep all TP applicable
Likes 0	
Dislikes 0	
Response	
Anthony Jablonski - ReliabilityFirst - 10	

Answer		
Document Name		
Comment		
Even though ReliabilityFirst agrees with related to the Violation Severity Levels s	the changes in the standard, ReliabilityFirst provides the following comments for consideration ections:	
Violation Severity Levels		
i. Requirement R4 VSL		
a. The second part of the High and Severe VSL is confusing as it references "information" while Requirement R4 references "criteria". ReliabilityFirst recommends the following for consideration:		
 The Planning Coordinator failed to provide one element of the required criteria (i.e., Facility Ratings, System steady Coordinator's. 		
b. The language of the first part of the High and Severe VSL are completely the same. Since there is no reference in any of the VLSs related to providing criteria to the requesting Planning Coordinators, ReliabilityFirst believes the first part of the Severe VSL should state " to its requesting Planning Coordinators" instead of " to all of its Transmission Planners."		
Likes 0		
Dislikes 0		
Response		
Shivaz Chopra - New York Power Author	ity - 1,3,5,6	
Answer		
Document Name		
Comment		
Supporting NPCC comments		
Likes 0		
Dislikes 0		
Response		
Daniel Grinkevich - Con Ed - Consolidate	ed Edison Co. of New York - 1	
Answer		
Document Name		

Comment	
None.	
Likes 0	
Dislikes 0	
Response	
Sing Tay - Sing Tay On Behalf of: John R	Rhea, OGE Energy - Oklahoma Gas and Electric Co., 3, 1, 6, 5; - Sing Tay
Answer	
Document Name	
Comment	
Refer to comments submitted by SPP Stand	dards Review Group.
Likes 0	
Dislikes 0	
Response	
Scott Downey - Peak Reliability - 1	
Answer	
Document Name	
Comment	
uncontrolled separation in FAC-015-1 requi Near-Term Transmission Planning Horizon, their Planning Assessments. The revised la instability, Cascading or uncontrolled separations Transfer Capability assessment to each imp	er should be included along with the Planning Coordinator for communicating any instability, Cascading, or rement R6. Both Planning Coordinators and Transmission Planners perform Planning Assessments for the therefore, it is possible that either entity could identify instability, Cascading, or uncontrolled separation in nguage could read, "Each Planning Coordinator and Transmission Planner shall communicate any ation identified in either its Planning Assessment of the Near Planning Herizansion its pacted Reliability Coordinator and Transmission Operator. Transmission Planners are not required to perform evised language might need to account for that.
Likes 0	
Dislikes 0	
Response	
John Seelke - LS Power Transmission, L	LC - 1
Answer	

Document Name Comment

The stated purpose of FAC-015-1 is:

"To ensure the Facility Ratings, System steady [startion rotange] libriter, ia ruse tailoil Planning Assessments are coordinated with the Reliability Coordinator's System Operating Limits (SOL) Methodology."

LSPT does not disagree with this purpose. It requires two-way communications between the RC and its TOPs and the PC and its TPs. However, LSPT proposes a more efficient way to meet this purpose.

Alternate FAC-015-000 Proposal

There are 15 Reliability Coordinators (per the NERC Compliance Registry) in the NERC footprint and they are listed below. Except for VACAR South and Peak Reliability, the rest are also registered as Planning Coordinators. In total, NERC has 78 Planning Coordinators are registered.

Reliability Coordinators in NERC (as of 9/29/2017)

- Midcontinent Independent System Operator, Inc. 1.
- 2. Saskatchewan Power Corporation
- 3. Southwest Power Pool
- 4. Hydro-Quebec TransEnergie
- 5. ISO-NE
- **New Brunswick Power Corporation** 6.
- 7. New York Independent System Operator
- Ontario IESO 8.
- 9. PJM Interconnection, LLC
- 10. Florida Reliability Coordinating Council, Inc.
- 11. Southern Company Services, Inc. Trans
- 12. Tennessee Valley Authority
- 13. VACAR South
- 14. Electric Reliability Council of Texas, Inc.
- 15. Peak Reliability

As an alternative to the present FAC-015-1, LSPT suggests requiring each Reliability Coordinator to facilitate collaborative discussions with its Transmission Operators that use its SOL Methodology and with the Planning Coordinators and Transmission Planners in its Reliability Coordinator Area. Those discussions would be bounded by stated purpose of the proposed FAC-015-1 standard. The results of such discussions would be documented to identify any reliability-related gaps between operations and planning and vice versa regarding the purpose of the standard. For any identified gaps, the RC would be required to develop and implement a Corrective Action Plan. Progress on CAPs would be required to be collectively reviewed periodically (LSPT suggests this be no more than annually).

This is a far more efficient approach to address the standard's purpose.

Comments on FAC-015-1 as proposed

LSPT is pleased that the retirement of FAC-010-3 eliminated the unnecessary requirement for PCs to develop an SOL Methodology and use that methodology to develop SOLs and IROLs for the planning horizon. Although FAC-015-1 carried over language from the proposed retired FAC-010-3 and proposed revised FAC-014-2, LSPT does not agree with the requirements that FAC-015-1 would impose upon PCs and their associated TPs.

Per R1 through R5 in FAC-015-1, the Planning Assessment in R6 must either use the Facility Ratings, System steady
performance criteria from the RC's SOL Methodology *or* provide a technical justification to the RC if the PC's values differ from the RC's values. The RC is not subject to the standard, and as written, no method is proposed to resolve technical differences between the RC and PC.

There are many good reasons for differences between a Planning Assessment and an Operational Planning Assessment. For example, some RC's use a defined set of Normal and Emergency Facility Ratings based upon various ambient temperatures, including daytime and nighttime rating reflecting solar impacts. These ratings cover conditions that will be experienced by operators. Planner's typically use some of the RC's ratings as its 'seasonal ratings' that, when combined with the temperature impacts of load, stress the System. Each is correct in its application.

The end product in R6 is a Planning Assessment in the Near-Term Planning Horizon along with Corrective Action Plans for any deficiencies. This is well beyond FAC-015-1's stated purpose. In addition, it is largely duplicative or in TPL-001-4 requirements (see R2.7 in TPL-001-4), except that the implementation of TPL-001-4 would use planning and not operating assumptions.

- The R6 phrase "or its Transfer Capability assessment" would not be produced in TPL-001-4. The SDT did not provide any rationale for this language.
- FAC-015-1 does not state whether the PC and TP are required to use the SOL Methodology's Contingency List or its planning Contingency list per TPL-001-4.

In summary, FAC-015-1 places significant requirements on PCs and their TPs, and these requirements are not required to meet the standard's purpose. The main rationale for the FAC-015-1 requirements appears to be that they came from standards being retired (FAC-010-3) or revised (FAC-014-2). The SDT should justify the requirements on their own merits independent of previous standards.

Likes 0		
Dislikes 0		
Response		
Pamela Hunter - Southern Company - Southern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company		
Answer		
Document Name		
Comment		

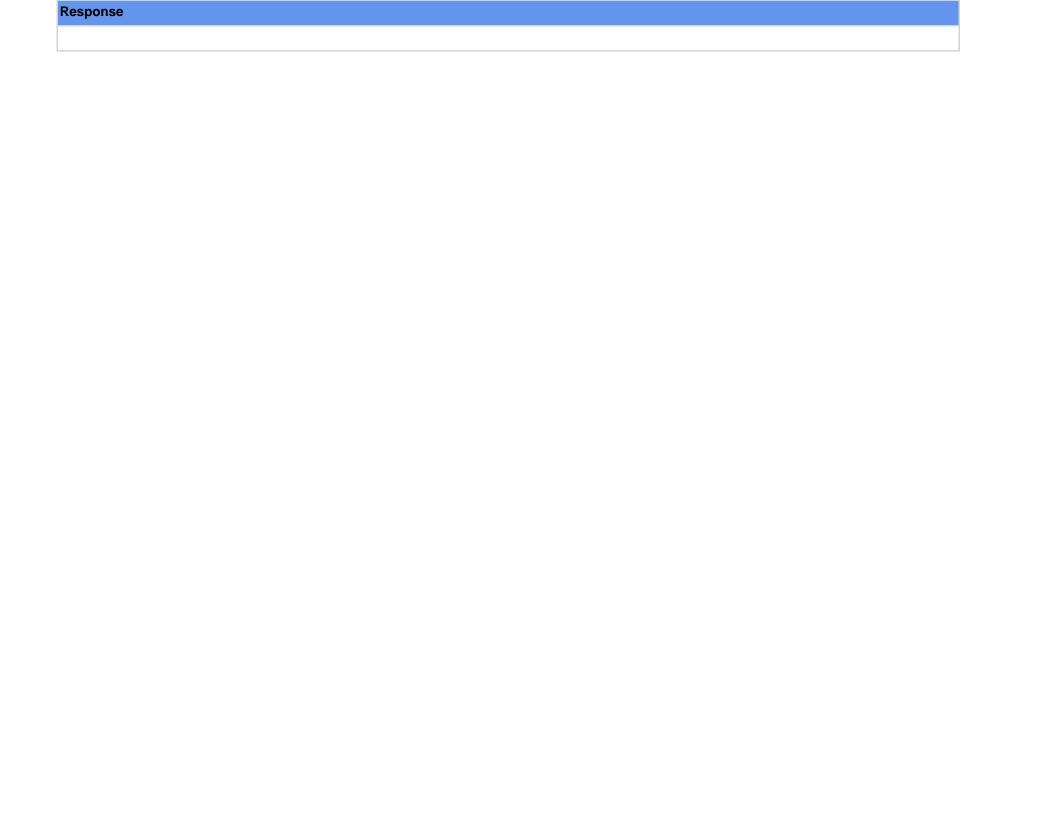
R4 – would prefer to see something about requesting Planning Coordinators with a reliability need instead of any Planning Coordinator that requests.

R6 – could consider including what is provided to impacted RCs in the IRO-017 or TPL-001 standard. This seems to have requirements for the

Planning Assessment scattered over 3 stan	dards.
R6 – would have preferred use of the term '	'IROL like conditions" instead of words copied from the IROL definition.
Likes 0	
Dislikes 0	
Response	
Mike Smith - Manitoba Hydro - 1, Group I	Name Manitoba Hydro
Answer	
Document Name	
Comment	
Coordinator, especially in cases where the I R1.1.5 or Transfer Capability assessment m to consider the identified stability limit for fut	having the PC review stability limits or IROLs determined by the Transmission Operator and/or Reliability limit was not determined by the PC – possibly because the PC only considered firm uses as per TPL-001-4 nethodology (FAC-013-2 R1) did not stress the same area as the operating assessments. The PC may want ture confirmation in a Planning Assessment or Transfer Capability Assessment. The criteria for the selection .1) could be based on review of information provided to the PC from the RC/Transmission Operator. It is this issue rather than include in FAC-015.
Likes 0	
Dislikes 0	
Response	
Faz Kasraie - Faz Kasraie On Behalf of: N	Mike Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie
Answer	
Document Name	
Comment	
	of FAC-010, and revisions to FAC-011 and 014 we will be voting "No" because of our concerns with FAC-, FAC-014 and FAC-015 form an integrated whole, so approving the changes to some standards and not
Likes 0	
Dislikes 0	
Response	

Cynthia Kneisl - Midwest Reliability Organization - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF		
Answer		
Document Name		
Comment		
"acceptable System performance." Accepta separate ballot and ballot period. It is inapp	posed definition of "System Voltage Limit" as the phrase "reliable system operations" was replaced with ble System performance should rely on, among other factors, the definition of SOL Exceedance which is in a propriate to approve a NERC standard without a clear understanding of how the definitions will impact the ith unintended impacts of separating the standard and the proposed SOL definition. The NSRF also has this	
Likes 1	Tay Sing On Behalf of: John Rhea, OGE Energy - Oklahoma Gas and Electric Co., 3, 1, 6, 5;	
Dislikes 0		
Response		
Aaron Cavanaugh - Bonneville Power Ad	ministration - 1,3,5,6 - WECC	
Answer		
Document Name		
Comment		
	on this new standard. However, BPA does not see the need to create new planning standards to accomplish er partially or fully included in other planning standards. The objectives could be better accomplished by ards.	
Likes 0		
Dislikes 0		
Response		
Ginette Lacasse - Seattle City Light - 1,3,	4,5,6 - WECC, Group Name Seattle City Light Ballot Body	
Answer		
Document Name		
Comment		
Note: While we agree with the retirement of FAC-010, and revisions to FAC-011 and 014 we are voting "No" because of our concerns with FAC-015. These changes to FAC-010, FAC-011, FAC-014 and FAC-015 form an integrated whole, so approving the changes to some standards and not others could create a reliability gap.		
Likes 0		

Dislikes 0	
Response	
Wendy Center - U.S. Bureau of Reclamat	ion - 5
Answer	
Document Name	
Comment	
None	
Likes 0	
Dislikes 0	
Response	
Thomas Foltz - AEP - 5	
Answer	
Document Name	
Comment	
In regards to the proposed R5 (for which no obligation rather than the newly proposed	o questions have been asked by the SDT), why was "System steady-state voltage limits" used within this "System Voltage Limit?"
Likes 0	
Dislikes 0	
Response	
Steven Mavis - Edison International - So	uthern California Edison Company - 1
Answer	
Document Name	
Comment	
Please refer to comments submitted by Rob	pert Blackney on behalf of Southern California Edison.
Likes 0	
Dislikes 0	



17. Do you agree with the propo	
Thomas Foltz - AEP - 5	
Answer	No
Document Name	
Comment	
	word "limits" the best choice for supposedly indicating that it is a numerical value? Instead, might this be more I minimum steady-state *voltage* limits (both normal and emergency) that provide for acceptable System
Likes 0	
Dislikes 0	
Response	
Aaron Cavanaugh - Bonneville	Power Administration - 1,3,5,6 - WECC
Answer	No
Document Name	
Comment	
voltage limits ensure acceptable p The approaches for determining a	rate definitions for minimum steady ower system performance while maximum steady and responding to exceedances are different for each type of voltage limit (minimum and maximum).
	wing revisions to the definition of System Voltage Limit:
"The minimum steady steady	- ெளttingetage and dobstr © ontingency) that provide for acceptable System performance. The maximum - petaffer matage: s base
Likes 0	
Dislikes 0	
Dislikes 0 Response	
	lectric System - 5
Response	lectric System - 5

As currently written, the words maximum ar the definition. To improve clarity, LES recor	nd minimum introduce confusion as they seem to imply only one upper limit and one lower limit required by mmends the following change:
The steady-state voltage limits, including to performance.	ooth normal and emergency with applicable allowable timeframes, that provide for acceptable System
Likes 0	
Dislikes 0	
Response	
Cynthia Kneisl - Midwest Reliability Orga	anization - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF
Answer	No
Document Name	
Comment	
the definition. To improve clarity, the NSRF	and <i>minimum</i> introduce confusion as they seem to imply only one upper limit and one lower limit required by recommends the following change: Noth normal and emergency with applicable allowable timeframes, that provide for acceptable System
Likes 0	
Dislikes 0	
Response	
Michael Cruz-Montes - CenterPoint Ener	gy Houston Electric, LLC - 1 - Texas RE
Answer	No
Document Name	
Comment	
	he proposed definition; however, we believe that the phrase, "acceptable System performance" could be ways respect, both in normal and emergency conditions, SOLs and IROLs, both of which are defined and
CenterPoint suggests the following definition	n of System Voltage Limit for the SDT to consider:
"The maximum and minimum steady	

Comment

As a point of reference, the NERC glossary defines Reliable Operation as: "Operating the elements of the [Bulk-Power System] within equipment and electric system thermal, voltage, and stability limits so that instability, uncontrolled separation, or cascading failures of such system will not occur as a

result of a sudden disturbance, including a cybersecurity incident, or unanticipated failure of system elements."		
Likes 0		
Dislikes 0		
Response		
Daniel Grinkevich - Con Ed - Consolidate	ed Edison Co. of New York - 1	
Answer	No	
Document Name		
Comment		
Typically there are additional Thermal ratings above the "normal" limit that have a time frame associated with them. For example an emergency limit may be a 15 minute rating, i.e. the flow can be at the emergency rating for 15 minutes. Therefore, by design, being above the normal rating is not going to result in damage to the BES elements. Therefore the 1st bullet in the SOL Exceedance definition should be revised to "Actual flow through a Facility is above the Facility's Rating and the associated allowable time frame is exceeded.		
Likes 0		
Dislikes 0		
Response		
Janis Weddle - Public Utility District No.	1 of Chelan County - 6, Group Name Chelan PUD	
Answer	No	
Document Name		
Comment		
The existing constructs (Facility Ratings, voltage performance criteria, voltage stability/reactive margin) should be adequate to address high voltage conditions (typically through Facility Ratings) and low voltage (typically through voltage performance criteria and voltage stability/reactive margin). CHPD feels that introducing another voltage-limit term will only serve to confuse the meanings of these other terms.		
Additionally, CHPD feels it would have a greater reliability for NERC to develop a system voltage whitepaper to discuss various voltage Facility Ratings methods and the reliability concerns that should be addressed with low and high voltage performance criteria, as well as revisiting transient and reactive margin concepts. A whitepaper would help clarify expectations, bring useful dialogue and improve industry knowledge in this area, whereas a third defined term describing voltage will not likely bring the desired clarity.		
CHPD does not recommend the creation of the term 'System Voltage Limit'.		
Likes 0		
Dislikes 0		
Response		

Brandon McCormick - Brandon McCormick On Behalf of: Carol Chinn, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida Municipal Power Agency, 6, 4, 3, 5; Joe McKinney, Florida Municipal Power Agency, 6, 4, 3, 5; Ken Simmons, Gainesville Regional Utilities, 1, 3, 5; Randy Hahn, Ocala Utility Services, 3; Richard Montgomery, Florida Municipal Power Agency, 6, 4, 3, 5; Tom Reedy, Florida Municipal Power Pool, 6; - Brandon McCormick, Group Name FMPA			
Answer	No		
Document Name			
Comment			
FMPA agrees with other commenters that s	uggest the word "limits" should be removed from the System Voltage Limit definition		
Likes 0			
Dislikes 0			
Response			
Allie Gavin - Allie Gavin On Behalf of: Mi	chael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin		
Answer	No		
Document Name			
Comment			
the definition. To improve clarity, ITC recom	and minimum introduce confusion as they seem to imply only one upper limit and one lower limit required by amends the following change: oth normal and emergency with applicable allowable timeframes, that provide for acceptable System		
Likes 0			
Dislikes 0			
Response			
Kevin Salsbury - Berkshire Hathaway - N	Kevin Salsbury - Berkshire Hathaway - NV Energy - 5		
Answer	No		
Document Name			
Comment			
Concerns with the unapproved SOL and SC	DL Exceedance definitions and their applicability to this definition.		
Likes 0			
Dislikes 0			

Response		
Laurie Williams - PNM Resources - Publi	c Service Company of New Mexico - 1	
Answer	No	
Document Name		
Comment		
	oth normal and emergency)". In the rational the SDT stated they wanted to allow flexibility but including shment of multiple limits without guidelines of what the limits will address, i.e. finite time period, type of	
Likes 0		
Dislikes 0		
Response		
Douglas Webb - Douglas Webb On Behalf of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; John Carlson, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb		
Answer	No	
Document Name		
Comment		
To provide additional clarity and consistency with the proposed NERC Glossary Term, <i>System Operating Limit</i> , we recommend the proposed <i>System Voltage Limit</i> (SVL) definition affirmatively state SVLs are used in the operation of the BES. Proposed alternative language : "The maximum and minimum steady-state Facility voltage limits (both normal and emergency) used in the operation of the Bulk Electric System."		
,		
Likes 0		
Dislikes 0		
Response		
Lauren Dries American Transmission C	Commony LLC 4 MDO DE	
Lauren Price - American Transmission C		
Answer	No	
Document Name		
Comment		

ATC does not believe there is a need for the term System Voltage Limit. The current FAC-008-3 standard already requires GOs and TOs to determine

System Voltage Limit.	ire already captured by the current SOL definition. Therefore, there is no need for the proposed definition of
Likes 0	
Dislikes 0	
Response	
Amy Casuscelli - Amy Casuscelli On Bel	nalf of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli
Answer	Yes
Document Name	
Comment	
However, this proposal seems to be redund	ant with the FAC-008 voltage limit already established.
Likes 0	
Dislikes 0	
Response	
Neil Swearingen - Salt River Project - 1,3	,5,6 - WECC
Answer	Yes
Document Name	
Comment	
SRP generally supports the proposed defini standards.	tion. However SRP will be voting Negative on the ballot due to recommended changes to the proposed
Likes 0	
Dislikes 0	
Response	
Scott Downey - Peak Reliability - 1	
Answer	Yes
Document Name	
Comment	
Peak agrees with the proposed definition fo	r System Voltage Limit.

Likes 0		
Dislikes 0		
Response		
Shivaz Chopra - New York Power Author	ity - 1,3,5,6	
Answer	Yes	
Document Name		
Comment		
Supporting NPCC comments		
Likes 0		
Dislikes 0		
Response		
David Jendras - Ameren - Ameren Service	ces - 3	
Answer	Yes	
Document Name		
Comment		
As a result of this change, does the definition?	on of Facility Rating also need to change to remove "the maximum or minimum voltage" part of that	
Likes 0		
Dislikes 0		
Response		
John Merrell - Tacoma Public Utilities (Tacoma, WA) - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		

Response	Kesponse		
Ginette Lacasse - Seattle City Light - 1,3	,4,5,6 - WECC, Group Name Seattle City Light Ballot Body		
Answer	Yes		
Document Name			
Comment			
Likes 0			
Dislikes 0			
Response			
Robert Blackney - Edison Electric Institu			
Answer	Yes		
Document Name			
Comment			
Likes 0			
Dislikes 0			
Response			
Michelle Amarantos - APS - Arizona Pub			
Answer	Yes		
Document Name			
Comment			
Likes 0			
Dislikes 0			
Response			
Steven Powell - Trans Bay Cable LLC - N			
Answer	Yes		
Document Name			

Comment		
Likes 0		
Dislikes 0		
Response		
Wendy Center - U.S. Bureau of Reclamat	ion - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Pamela Hunter - Southern Company - So	uthern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mike Smith - Manitoba Hydro - 1, Group Name Manitoba Hydro		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Donald Hargrove - OGE Energy - Oklaho	ma Gas and Electric Co 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Faz Kasraie - Faz Kasraie On Behalf of: I	Mike Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
David Ramkalawan - Ontario Power Gen	eration Inc 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
John Seelke - LS Power Transmission, L	LC - 1
Answer	Yes
Document Name	
Comment	

Likes 0		
Dislikes 0		
Response		
Preston Walker - PJM Interconnection, L	.L.C 2 - SERC,RF	
Answer	Yes	
Document Name		
Comment		
Likes 3	PSEG - PSEG Energy Resources and Trade LLC, 6, Barton Karla; PSEG - Public Service Electric and Gas Co., 3, Mueller Jeffrey; PSEG - Public Service Electric and Gas Co., 1, Smith Joseph	
Dislikes 0		
Response		
Julie Hall - Entergy - 6		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Colby Bellville - Duke Energy - 1,3,5,6 - FRCC,SERC,RF, Group Name Duke Energy		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Bridget Silvia - Sempra - San Diego Gas	and Electric - 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Sarah Gasienica - NiSource - Northern Ir	ndiana Public Service Co 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Terri Pyle - OGE Energy - Oklahoma Gas	s and Electric Co 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mark Riley - Associated Electric Cooperative, Inc 1, Group Name AECI & Member G&Ts	
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Quintin Lee - Eversource Energy - 1, Gro	up Name Eversource Group
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
sean erickson - Western Area Power Administration - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Southwest Power Pool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Dennis Chastain - Tennessee Valley Authority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
James Grimshaw - CPS Energy - 3	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Leonard Kula - Independent Electricity System Operator - 2	
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Gladys DeLaO - CPS Energy - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Elizabeth Axson - Electric Reliability	Council of Texas, Inc 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Municipal Utility District, 4, 1, 5, 6, 3;	alf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Jamie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Michael Jones - National Grid USA - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Brian Van Gheem - ACES Power Market	ing - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Richard Vine - California ISO - 2	
Answer	
Document Name	
Comment	
The California ISO supports the comments	of the ISO/RTO Council Standards Review Committee
Likes 0	
Dislikes 0	
Response	
Gregory Campoli - New York Independe	nt System Operator - 2
Answer	
Document Name	

Comment	
The SDT should consider a reference to facility voltage rating. The clarification should be provided that illustrates the relationship similar to between thermal facility rating and System Operation Limit; and facility voltage rating and System Voltage Limit.	
Likes 0	
Dislikes 0	
Response	

18. Do you agree with the Implementation Plan? If not, please provide the basis for your disagreement and an alternate proposal. Brian Van Gheem - ACES Power Marketing - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators	
Document Name	
Comment	
assessments. Time is needed to coordinat respectively. Additional time will also be no Standard PER-005-2. Moreover, dependin	try, affecting personnel from both operations and planning on how SOLs are handled and used within e activities, particularly between RCs and PCs on how information is dispersed to TOPs and TPs, seded for training that will include a larger audience than just operating personnel identified for Reliability g on the significance of a compliance burden introduced by these standards, registered entities will need es for their established compliance programs. We believe an implementation period no less than 24 months
Likes 0	
Dislikes 0	
Response	
Laurie Williams - PNM Resources - Publi	c Service Company of New Mexico - 1
Answer	No
Document Name	
Comment	
	e frame should be a minimum of 36 months to allow active participation by all impacted entities especially and FAC-015 will require the PA and TOP to plan and operate their system to new system performance
Likes 0	
Dislikes 0	
Response	
Allie Gavin - Allie Gavin On Behalf of: M	chael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin
Answer	No
Document Name	
Comment	

The 12 month implementation plan is only sufficient to put in place the required processes necessary to facilitate the requirements as stated in the new and revised standards. In order to then allow for a cycle of the TPL-001 standard to also be accommodated to facilitate this new SOL process another

12 months would need to be added into the	implementation plan to allow for this work specifically.
Likes 0	
Dislikes 0	
Response	
Mark Riley - Associated Electric Coopera	ative, Inc 1, Group Name AECI & Member G&Ts
Answer	No
Document Name	
Comment	
and TOPs. These efforts require more than	equire Responsible Entities to develop a methodology and to establish further coordination between the RCs in 12 months for adequate development time and coordination between Responsible Entities. AECI should be extended to 24 months to allow Responsible Entities the time needed to implement the
Likes 0	
Dislikes 0	
Response	
Janis Weddle - Public Utility District No.	1 of Chelan County - 6, Group Name Chelan PUD
Answer	No
Document Name	
Comment	
Standards need additional modification – or	nce this is done, the proposed Implementation Plan can be assessed.
Likes 0	
Dislikes 0	
Response	
Colby Bellville - Duke Energy - 1,3,5,6 - F	RCC,SERC,RF, Group Name Duke Energy
Answer	No
Document Name	
Comment	

Based on the level of work that is anticipated, Duke Energy does not agree with the proposed Implementation Plan, and recommends that the drafting team consider extending the Implementation Plan to 24 months.	
Likes 0	
Dislikes 0	
Response	
Amy Casuscelli - Amy Casuscelli On Bel	half of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli
Answer	No
Document Name	
Comment	
TOPs to address common limits as well as	quirements in FAC-011-4 R3 will require methodology development and coordination between the RC and coordination. Once complete, the studies will need to be performed based on these new concepts, which anguage in FAC-011-4 R2 is a change which will result in the need to address common limits as well as
Likes 0	
Dislikes 0	
Response	
Ginette Lacasse - Seattle City Light - 1,3	,4,5,6 - WECC, Group Name Seattle City Light Ballot Body
Answer	No
Document Name	
Comment	
City Light would like to see the standard res	solution first.
Likes 0	
Dislikes 0	
Response	
Aaron Cavanaugh - Bonneville Power Ad	dministration - 1,3,5,6 - WECC
Answer	No
Document Name	
Comment	

As documented above, BPA does not believe a new standard needs to be created.	
Likes 0	
Dislikes 0	
Response	
Faz Kasraie - Faz Kasraie On Behalf of: N	Mike Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Shivaz Chopra - New York Power Author	ity - 1,3,5,6
Answer	Yes
Document Name	
Comment	
Supporting NPCC comments	
Likes 0	
Dislikes 0	
Response	
Scott Downey - Peak Reliability - 1	
Answer	Yes
Document Name	
Comment	
Peak agrees with the proposed implementation plan.	
Likes 0	

Dislikes 0	
Response	
Neil Swearingen - Salt River Project - 1,3	5,5,6 - WECC
Answer	Yes
Document Name	
Comment	
SRP generally supports the proposed Imple proposed standards.	ementation Plan. However SRP will be voting Negative on the ballot due to recommended changes to the
Likes 0	
Dislikes 0	
Response	
Michael Jones - National Grid USA - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Municipal Utility District, 4, 1, 5, 6, 3; Jan	of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento nie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of acramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1,
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Lauren Price - American Transmission C	company, LLC - 1 - MRO,RF
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Elizabeth Axson - Electric Reliability Cou	uncil of Texas, Inc 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gladys DeLaO - CPS Energy - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Great Plains Energy - Kansas City Power	If of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, r and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light s Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb
Answer	Yes
Document Name	

Comment	
Likes 0	
Dislikes 0	
Response	
Kevin Salsbury - Berkshire Hathaway - N	IV Energy - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
James Grimshaw - CPS Energy - 3	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Dennis Chastain - Tennessee Valley Aut	hority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Southwest Power Po	ool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
David Jendras - Ameren - Ameren Service	ces - 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
sean erickson - Western Area Power Adı	ministration - 1
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Quintin Lee - Eversource Energy - 1, Gro	up Name Eversource Group
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Municipal Power Agency, 6, 4, 3, 5; Joe M	ck On Behalf of: Carol Chinn, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida IcKinney, Florida Municipal Power Agency, 6, 4, 3, 5; Ken Simmons, Gainesville Regional Utilities, 1, 3; Richard Montgomery, Florida Municipal Power Agency, 6, 4, 3, 5; Tom Reedy, Florida Municipal oup Name FMPA
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Terri Pyle - OGE Energy - Oklahoma Gas	and Electric Co 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Sarah Gasienica - NiSource - Northern Ir	ndiana Public Service Co 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Bridget Silvia - Sempra - San Diego Gas	and Electric - 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Julie Hall - Entergy - 6	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Preston Walker - PJM Interconnection, L	
Answer	Yes
Document Name	

Comment	
Likes 3	PSEG - PSEG Energy Resources and Trade LLC, 6, Barton Karla; PSEG - Public Service Electric and Gas Co., 3, Mueller Jeffrey; PSEG - Public Service Electric and Gas Co., 1, Smith Joseph
Dislikes 0	
Response	
John Seelke - LS Power Transmission, L	LC - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michael Cruz-Montes - CenterPoint Energ	gy Houston Electric, LLC - 1 - Texas RE
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Donald Hargrove - OGE Energy - Oklaho	ma Gas and Electric Co 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Mike Smith - Manitoba Hydro - 1, Group	Name Manitoba Hydro
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
	outhern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Wendy Center - U.S. Bureau of Reclamate	
Answer	Yes
Document Name	
Comment	
	1
Likes 0	
Dislikes 0	
Response	
Kayleigh Wilkerson - Lincoln Electric Sy	
Answer	Yes
Document Name	

Comment	
Likes 0	
Dislikes 0	
Response	
Steven Powell - Trans Bay Cable LLC - N	IA - Not Applicable - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michelle Amarantos - APS - Arizona Pub	lic Service Co 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Robert Blackney - Edison Electric Institu	te - 1,3,5,6 - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

John Merrell - Tacoma Public Utilities (Ta	acoma, WA) - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thomas Foltz - AEP - 5	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

	orization Request (SAR) in a cost effective manner. Do you agree? If you do not agree, or if you ment to enable additional cost effective approaches to meet the reliability objectives, please provide e, technical justification.
Aaron Cavanaugh - Bonneville Power Ac	Iministration - 1,3,5,6 - WECC
Answer	No
Document Name	
Comment	
As documented above, BPA does not believe	ve a new standard needs to be created.
Likes 0	
Dislikes 0	
Response	
Wendy Center - U.S. Bureau of Reclamat	ion - 5
Answer	No
Document Name	
Comment	
	sinterpretation of FAC-011-4 R4.2 and R5 as it implies Real-Time Assessments will include Stability. Ientified single Contingency and multiple Contingencies for use in determining stability limits because the sare credible.
Likes 0	
Dislikes 0	
Response	
Pamela Hunter - Southern Company - So	uthern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company
Answer	No
Document Name	
Comment	

As proposed, we perceive this Standard as requiring additional resources for stability studies and compliance documentation such that it will add cost to our business. Furthermore, the proposed Standard will not change the way we increase reliability or operate the system.

19. The SDT asserts the combination of proposed FAC-011-4, FAC-014-3, and FAC-015-1 provide entities with flexibility to meet the reliability

Likes 0	
Dislikes 0	
Response	
Mike Smith - Manitoba Hydro - 1, Group	Name Manitoba Hydro
Answer	No
Document Name	
Comment	
	014-3 as well as the retirement of FAC-010-3 are reasonable. The development of FAC-015 seems to be comparison exercise. Some of the proposed changes fit better into existing standards TPL-001 and FAC-
Likes 1	Michael Watkins, N/A, Watkins Michael
Dislikes 0	
Response	
John Seelke - LS Power Transmission, L	LC - 1
Answer	No
Document Name	
Comment	
LSPT's proposed alternative to FAC-015-1	in Q16 meets the proposed standard's purpose in a more efficient manner.
Likes 0	
Dislikes 0	
Response	
Bridget Silvia - Sempra - San Diego Gas	and Electric - 3
Answer	No
Document Name	
Comment	

Only consistency in requirements and criteria would help to increase "cost effectiveness" in our environment where legal/regulatory approval processes

impede the effort in maintaining system relia	ability.
Likes 0	
Dislikes 0	
Response	
Allie Gavin - Allie Gavin On Behalf of: Mi	chael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin
Answer	No
Document Name	
Comment	
and allowing every group to identify their ow with those found in FAC-015 should have b	een put together forces everyone into a defined process rather than defining the objective of the standard vn cost effective method of accomplishing the objective. The organization of the requirements especially een incorporated in other already existing standards (TPL-001 or IRO-017). This new proposed standard is for compliance risks due to developing a third standard with obligations tied to the TPL-001 standard that rd.
Likes 0	
Dislikes 0	
Response	
Response	
Response David Jendras - Ameren - Ameren Service	es - 3
	ces - 3 No
David Jendras - Ameren - Ameren Servic	
David Jendras - Ameren - Ameren Servic	
David Jendras - Ameren - Ameren Servic Answer Document Name Comment We do not see any flexibility to meet the obtechnical justification for developing more s	
David Jendras - Ameren - Ameren Servic Answer Document Name Comment We do not see any flexibility to meet the obtechnical justification for developing more slanguage remains unchanged, depending of	No jectives. For standard FAC-015-1, we have offered alternative ideas that the PC and RC should be providing tringent system performance requirements than the system is presently planned. We believe that if the draft
David Jendras - Ameren - Ameren Service Answer Document Name Comment We do not see any flexibility to meet the obtechnical justification for developing more slanguage remains unchanged, depending of more stringent requirements.	No jectives. For standard FAC-015-1, we have offered alternative ideas that the PC and RC should be providing tringent system performance requirements than the system is presently planned. We believe that if the draft
David Jendras - Ameren - Ameren Service Answer Document Name Comment We do not see any flexibility to meet the obtechnical justification for developing more slanguage remains unchanged, depending of more stringent requirements. Likes 0	No jectives. For standard FAC-015-1, we have offered alternative ideas that the PC and RC should be providing tringent system performance requirements than the system is presently planned. We believe that if the draft
David Jendras - Ameren - Ameren Service Answer Document Name Comment We do not see any flexibility to meet the obtechnical justification for developing more stanguage remains unchanged, depending of more stringent requirements. Likes 0 Dislikes 0	No jectives. For standard FAC-015-1, we have offered alternative ideas that the PC and RC should be providing tringent system performance requirements than the system is presently planned. We believe that if the draft
David Jendras - Ameren - Ameren Service Answer Document Name Comment We do not see any flexibility to meet the obtechnical justification for developing more slanguage remains unchanged, depending of more stringent requirements. Likes 0 Dislikes 0	jectives. For standard FAC-015-1, we have offered alternative ideas that the PC and RC should be providing tringent system performance requirements than the system is presently planned. We believe that if the draft on the imposed requirement by the PC or RC, significant dollars may need to be expended to meet the new,

Document Name	
Comment	
	and FAC-015 allow one entity, the RC, to change long standing system performance criteria used by system which could result in the need to implement numerous system changes to meet the RC's criteria.
Likes 0	
Dislikes 0	
Response	
Lauren Price - American Transmission C	ompany, LLC - 1 - MRO,RF
Answer	No
Document Name	
Comment	
ATC is concerned with the application of the RC SOL methodology to the TOP through FAC-014-3 with respect to the requirements regarding stability limits and stability analysis in FAC-011-4 R4 and R5. The current proposal may require a significant increase in stability analyses, whether in OPAs and RTAs, that are not warranted in a local TOPs system but is mandated because a TOP must follow an RC's one-size-fits-all metholodgy.	
Likes 0	
Dislikes 0	
Response	
Brian Van Gheem - ACES Power Marketin	ng - 6 - NA - Not Applicable, Group Name ACES Standards Collaborators
Answer	No
Document Name	
Comment	
 The proposed standards require direct communication between the RC and the impacted entities that would be documented through electronic communications or voice recordings. This approach is cumbersome and inefficient. We believe the standards should instead allow entities to use more automated mechanisms for exchanging SOL information. We thank you for this opportunity to provide these comments. 	
Likes 0	
Dislikes 0	
Response	
Shivaz Chopra - New York Power Authority - 1,3,5,6	
Answer	Yes

Document Name	
Comment	
Supporting NPCC comments	
Likes 0	
Dislikes 0	
Response	
Janis Weddle - Public Utility District No.	1 of Chelan County - 6, Group Name Chelan PUD
Answer	Yes
Document Name	
Comment	
Workload and operational impacts are likely baseload compliance workload remains und	to be in-line with current practice. While FAC-010 is proposed to be removed, FAC-015 replaces it, so the changed.
Likes 0	
Dislikes 0	
Response	
Municipal Power Agency, 6, 4, 3, 5; Joe M	ick On Behalf of: Carol Chinn, Florida Municipal Power Agency, 6, 4, 3, 5; Chris Gowder, Florida McKinney, Florida Municipal Power Agency, 6, 4, 3, 5; Ken Simmons, Gainesville Regional Utilities, 1, 3; Richard Montgomery, Florida Municipal Power Agency, 6, 4, 3, 5; Tom Reedy, Florida Municipal Oup Name FMPA
Answer	Yes
Document Name	
Comment	
	e a cost effective manner to meet the reliability objectives, provided that the scope of activities for each ly clear so that unnecessary or duplicative work is not required. We believe additional changes, as point.
Likes 0	
Dislikes 0	
Response	
John Merrell - Tacoma Public Utilities (Ta	acoma, WA) - 1

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ginette Lacasse - Seattle City Light - 1,3,	.4,5,6 - WECC, Group Name Seattle City Light Ballot Body
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Robert Blackney - Edison Electric Institu	rte - 1,3,5,6 - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michelle Amarantos - APS - Arizona Public Service Co 1	
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0	
Response	
Amy Casuscelli - Amy Casuscelli On Bel	nalf of: Michael Ibold, Xcel Energy, Inc., 3, 1, 5; - Amy Casuscelli
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Steven Powell - Trans Bay Cable LLC - N	A - Not Applicable - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Neil Swearingen - Salt River Project - 1,3	,5,6 - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michael Cruz-Montes - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE	
Answer	Yes

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Faz Kasraie - Faz Kasraie On Behalf of: I	Mike Haynes, Seattle City Light, 1, 4, 5, 6, 3; - Faz Kasraie
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Scott Downey - Peak Reliability - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Julie Hall - Entergy - 6	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	

kesponse	
Sarah Gasienica - NiSource - Northern Ir	ndiana Public Service Co 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Terri Pyle - OGE Energy - Oklahoma Gas	and Electric Co 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Quintin Lee - Eversource Energy - 1, Gro	Dup Name Eversource Group
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
sean erickson - Western Area Power Administration - 1	
Answer	Yes
Document Name	

Comment	
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Southwest Power Pool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Autl	hority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion NextERA Con-Ed	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

James Grimshaw - CPS Energy - 3	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Douglas Webb - Douglas Webb On Behalf of: Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; James McBee, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; Jennifer Flandermeyer, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; John Carlson, Great Plains Energy - Kansas City Power and Light Co., 5, 1, 3, 6; - Douglas Webb	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gladys DeLaO - CPS Energy - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Joe Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; - Joe Tarantino

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michael Jones - National Grid USA - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gregory Campoli - New York Independen	nt System Operator - 2
Answer	
Document Name	
Comment	
	camples: Requirement R3, Parts 3.1 in FAC-011-4), could result in unnecessary cost for the responsible urge the SDT to consider adopting our proposed wording changes to achieve a more cost-effective approach
Likes 0	
Dislikes 0	
Response	
Kristine Ward - Seminole Electric Coope	rative, Inc 1,3,4,5,6 - FRCC
Answer	
Document Name	Project 2015-09 Establish and Comm SOL.docx
Comment	

Likes 0	
Dislikes 0	
Response	