Comment Report

Project Name: 2023-07 Transmission Planning Performance Requirements for Extreme Weather | Draft 2

Comment Period Start Date: 7/16/2024
Comment Period End Date: 8/22/2024

Associated Ballots: 2023-07 Transmission Planning Performance Requirements for Extreme Weather Implementation Plan AB 2 OT

2023-07 Transmission Planning Performance Requirements for Extreme Weather TPL-008-1 AB 2 ST

There were 74 sets of responses, including comments from approximately 191 different people from approximately 118 companies representing 10 of the Industry Segments as shown in the table on the following pages.

Questions

- 1. The drafting team (DT) updated the Requirements in chronological order. Do you agree with the proposed TPL-008-1 Reliability Standard Requirement layout? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.
- 2. The DT updated Requirements R1 R2 based on comments received. Do you agree with the updated proposed TPL-008-1 Reliability Standard Requirements R1-R2? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.
- 3. The DT updated Requirements R3 R5 based on comments received. Do you agree with the updated proposed TPL-008-1 Reliability Standard Requirements R3-R5? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.
- 4. The DT updated Requirements R6 R8 based on comments received. Do you agree with the updated proposed TPL-008-1 Reliability Standard Requirements R6-R8? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.
- 5. The DT updated Requirement R9 based on comments received. Do you agree with the updated proposed TPL-008-1 Reliability Standard Requirement R9? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.
- 6. The DT updated Requirement R10 based on comments received. Do you agree with the updated proposed TPL-008-1 Reliability Standard Requirement R10? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.
- 7. The DT split out Table 1 into parts for better readability. Do you agree with the updated layout of Table 1? If you do not agree, please provide your recommendation and technical justification.
- 8. The DT believes proposed modifications in TPL-008-1 provide entities with flexibility to meet the reliability objectives in a cost-effective manner. Do you agree? If you do not agree, or if you agree but have suggestions for improvement to enable more cost-effective approaches, please provide your recommendation and, if appropriate, technical or procedural justification.
- 9. Provide any additional comments for the standard drafting team to consider, including the provided technical rationale document, if desired.

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region										
MRO	Anna Martinson	1,2,3,4,5,6	MRO	MRO Group	Shonda McCain	Omaha Public Power District (OPPD)	1,3,5,6	MRO										
					Michael Brytowski	Great River Energy	1,3,5,6	MRO										
					Jamison Cawley	Nebraska Public Power District	1,3,5	MRO										
					Jay Sethi	Manitoba Hydro (MH)	1,3,5,6	MRO										
					Husam Al-Hadidi	Manitoba Hydro (System Preformance)	1,3,5,6	MRO										
					Kimberly Bentley	Western Area Power Adminstration	1,6	MRO										
					Jaimin Patal	Saskatchewan Power Coporation (SPC)	1	MRO										
					George Brown	Pattern Operators LP	5	MRO										
					Larry Heckert	Alliant Energy (ALTE)	4	MRO										
					Terry Harbour	MidAmerican Energy Company (MEC)	1,3	MRO										
					Dane Rogers	Oklahoma Gas and Electric (OG&E)	1,3,5,6	MRO										
					Seth Shoemaker	Muscatine Power & Water	1,3,5,6	MRO										
					Michael Ayotte	ITC Holdings	1	MRO										
															Andrew Coffelt	Board of Public Utilities- Kansas (BPU)	1,3,5,6	MRO
					Peter Brown	Invenergy	5,6	MRO										

					Angela Wheat	Southwestern Power Administration	1	MRO
					Bobbi Welch	Midcontinent ISO, Inc.	2	MRO
					Joshua Phillips	Southwest Power Pool	2	MRO
					Patrick Tuttle	Oklahoma Municipal Power Authority	4,5	MRO
Dominion - Dominion	Barbara Marion	5		Dominion	Victoria Crider	Dominion	3	NA - Not Applicable
Resources, Inc.					Barbara Marion	Dominion	5	NA - Not Applicable
					Sean Bodkin	Dominion	6	NA - Not Applicable
					Steven Belle	Dominion	1	NA - Not Applicable
Midcontinent		MRO,RF,SERC		Ali Miremadi	CAISO	2	WECC	
ISO, Inc.				Council Standards Review Committee (SRC) Project	Kennedy Meier	Electric Reliability Council of Texas, Inc.	2	Texas RE
				2023-07 TPL-	Helen Lainis	IESO	2	NPCC
				008-1 Draft #2	Keith Jonassen	ISO-NE	2	NPCC
					Bobbi Welch	MISO	2	RF
					Gregory Campoli	New York Independent System Operator	2	NPCC
					Charles Yeung	SPP	2	MRO
					Elizabeth Davis	PJM	2	RF
Western Power Pool	Chelsea Loomis	NA - Not Applicable	WECC	WPP Consortium of	Guiha Wang	BC Hydro	NA - Not Applicable	WECC
				Engineers	Berhanu Tesema	BPA	NA - Not Applicable	WECC
					Christopher Lamb	CHPD	NA - Not Applicable	WECC
					Laryn Brinkman	CHPD	NA - Not Applicable	WECC
					Zach Zornes	CHPD	NA - Not Applicable	WECC

					Stephen Longmuir	IPCO	NA - Not Applicable	WECC
					Jessica Boatwright	NWMT	NA - Not Applicable	WECC
					Daniel Baye	PAC	NA - Not Applicable	WECC
					Rachit Aurora	PSE	NA - Not Applicable	WECC
					Nima Miri	SCL	NA - Not Applicable	WECC
					Rob Jones	SCL	NA - Not Applicable	WECC
					Ken Che	SNPD	NA - Not Applicable	WECC
					Tuan Dang	SNPD	NA - Not Applicable	WECC
					Ben Hutchins	WPP	NA - Not Applicable	WECC
Santee Cooper	Chris Wagner	Wagner 1		Santee Cooper	Rene' Free	Santee Cooper	1,3,5,6	SERC
				Christie Pope	Santee Cooper	1,3,5,6	SERC	
Public Utility District No. 1 of Chelan County	Joyce Gundry	3		CHPD	Rebecca Zahler	Public Utility District No. 1 of Chelan County	5	WECC
					Joyce Gundry	Public Utility District No. 1 of Chelan County	3	WECC
					Diane Landry	Public Utility District No. 1 of Chelan County	1	WECC
					Robert Witham	Public Utility District No. 1 of Chelan County	6	WECC
FirstEnergy - FirstEnergy Corporation	Mark Garza	rk Garza 4		FE Voter	Julie Severino	FirstEnergy - FirstEnergy Corporation	1	RF
					Aaron Ghodooshim	FirstEnergy - FirstEnergy Corporation	3	RF

					Robert Loy	FirstEnergy - FirstEnergy Solutions	5	RF
					Mark Garza	FirstEnergy- FirstEnergy	1,3,4,5,6	RF
					Stacey Sheehan	FirstEnergy - FirstEnergy Corporation	6	RF
Southern Company - Southern Company Services, Inc.	Pamela Hunter	ter 1,3,5,6	SERC	Southern Company	Matt Carden	Southern Company - Southern Company Services, Inc.	1	SERC
					Joel Dembowski	Southern Company - Alabama Power Company	3	SERC
				Ron Carlsen	Southern Company - Southern Company Generation	6	SERC	
					Leslie Burke	Southern Company - Southern Company Generation	5	SERC
Black Hills Corporation		6	Corporation - All Segments	Micah Runner	Black Hills Corporation	1	WECC	
				All Segments	Josh Combs	Black Hills Corporation	3	WECC
					Rachel Schuldt	Black Hills Corporation	6	WECC
					Carly Miller	Black Hills Corporation	5	WECC
					Sheila Suurmeier	Black Hills Corporation	5	WECC
Northeast Power Coordinating Council	Ruida Shu	Shu 1,2,3,4,5,6,7,8,9,10	NPCC	NPCC RSC	Gerry Dunbar	Northeast Power Coordinating Council	10	NPCC
					Deidre Altobell	Con Edison	1	NPCC
					Michele Tondalo	United Illuminating Co.	1	NPCC

Stephanie Ullah- Mazzuca	Orange and Rockland	1	NPCC
Michael Ridolfino	Central Hudson Gas & Electric Corp.	1	NPCC
Randy Buswell	Vermont Electric Power Company	1	NPCC
James Grant	NYISO	2	NPCC
Dermot Smyth	Con Ed - Consolidated Edison Co. of New York	1	NPCC
David Burke	Orange and Rockland	3	NPCC
Peter Yost	Con Ed - Consolidated Edison Co. of New York	3	NPCC
Salvatore Spagnolo	New York Power Authority	1	NPCC
Sean Bodkin	Dominion - Dominion Resources, Inc.	6	NPCC
David Kwan	Ontario Power Generation	4	NPCC
Silvia Mitchell	NextEra Energy - Florida Power and Light Co.	1	NPCC
Sean Cavote	PSEG	4	NPCC
Jason Chandler	Con Edison	5	NPCC
Tracy MacNicoll	Utility Services	5	NPCC
Shivaz Chopra	New York Power Authority	6	NPCC
Vijay Puran	New York State Department of Public Service	6	NPCC
David Kiguel	Independent	7	NPCC
Joel Charlebois	AESI	7	NPCC

					Joshua London	Eversource Energy	1	NPCC
					Jeffrey Streifling	NB Power Corporation	1,4,10	NPCC
					Joel Charlebois	AESI	7	NPCC
					John Hastings	National Grid	1	NPCC
					Erin Wilson	NB Power	1	NPCC
					James Grant	NYISO	2	NPCC
					Michael Couchesne	ISO-NE	2	NPCC
					Kurtis Chong	IESO	2	NPCC
					Michele Pagano	Con Edison	4	NPCC
					Bendong Sun	Bruce Power	4	NPCC
					Carvers Powers	Utility Services	5	NPCC
					Wes Yeomans	NYSRC	7	NPCC
					Chantal Mazza	Hydro Quebec	1	NPCC
					Nicolas Turcotte	Hydro Quebec	2	NPCC
Dominion - Dominion	Sean Bodkin	6		Dominion	Victoria Crider	Dominion Energy	3	NA - Not Applicable
Resources, Inc.					Sean Bodkin	Dominion Energy	6	NA - Not Applicable
					Steven Belle	Dominion Energy	1	NA - Not Applicable
					Barbara Marion	Dominion Energy	5	NA - Not Applicable
Shannon Mickens	Shannon Mickens		MRO,SPP RE,WECC	SPP RTO	Shannon Mickens	Southwest Power Pool Inc.	2	MRO
					Mia Wilson	Southwest Power Pool Inc.	2	MRO
					Eddie Watson	Southwest Power Pool Inc.	2	MRO
					Erin Cullum	Southwest Power Pool Inc.	2	MRO
					Jonathan Hayes	Southwest Power Pool Inc.	2	MRO

					Jeff McDiarmid	Southwest Power Pool Inc.	2	MRO
					Scott Jordan	Southwest Power Pool Inc	2	MRO
					Lottie Jones	Southwest Power Pool Inc.	2	MRO
					Sherri Maxey	Southwest Power Pool Inc.	2	MRO
					Josh Phillips	Southwest Power Pool Inc.	2	MRO
Western		10		WECC	Steve Rueckert	WECC	10	WECC
Electricity Coordinating Council	Rueckert				Curtis Crews	WECC	10	WECC
Tim Kelley	Tim Kelley	ey	WECC	SMUD and BANC	Nicole Looney	Sacramento Municipal Utility District	3	WECC
					Charles Norton	Sacramento Municipal Utility District	6	WECC
					Wei Shao	Sacramento Municipal Utility District	1	WECC
					Foung Mua	Sacramento Municipal Utility District	4	WECC
					Nicole Goi	Sacramento Municipal Utility District	5	WECC
					Kevin Smith	Balancing Authority of Northern California	1	WECC

	quirements in chronological order. Do you agree with the proposed TPL-008-1 Reliability Standard, please provide your recommendation and, if appropriate, technical or procedural justification.
Long Island Power Authority	
Answer	Yes
Document Name	(if an attachment is provided by submitter)
Comment	
Submitter's comments	
Likes 0	# of other submitters who agree with these comments
Dislikes 0	# of other submitters who disagree with these comments
Response	
(Drafting team's response to submitt	er's comments)
Anna Martinson - MRO - 1,2,3,4,5,6 - MRC	O, Group Name MRO Group
Answer	No
Document Name	
Comment	
The MRO NERC Standards Review Forum	(NSRF) recommends the following changes to the order of the requirements:
· R8 should be moved up. The standard nee	eding to be met once every five years should be right up front.
· R2 and R4 need to be together as they de cases need to be constructed.	scribe the cases. They should also clearly denote both power flow and dynamics benchmark and sensitivity
Please see the process flow proposed in At	tachment A to these comments which illustrates a logical flow.
Likes 1	Scott Brame, N/A, Brame Scott
Dislikes 0	
Response	
Hayden Maples - Hayden Maples On Beh Tiffany Lake, Evergy, 3, 5, 1, 6; - Hayden	alf of: Jeremy Harris, Evergy, 3, 5, 1, 6; Kevin Frick, Evergy, 3, 5, 1, 6; Marcus Moor, Evergy, 3, 5, 1, 6; Maples
Answer	No
Document Name	
Comment	

Evergy supports and incorporates by refere on question 1	ence the comments of the Midwest Reliability Organization's NERC Standards Review Forum (MRO NSRF)
Likes 0	
Dislikes 0	
Response	
Amy Wilke - American Transmission Co	mpany, LLC - 1
Answer	No
Document Name	
Comment	
ATC supports the MRO NSRF comments.	
Likes 0	
Dislikes 0	
Response	
Donna Wood - Tri-State G and T Associa	tion, Inc 1
Answer	No
Document Name	
Comment	
Tri-State supports the comments submitted	by the MRO NSRF.
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Shannon Mickens O	n Behalf of: Joshua Phillips, Southwest Power Pool, Inc. (RTO), 2; - Shannon Mickens, Group Name
Answer	No
Document Name	
Comment	

vision on how the industry will use the NER	C (ERO) approved library since it has not been created at this time.					
Moreover, the drafting team has not provided any tangible solutions/details in reference to joint coordination with neighboring entities as well as appropriate data collection via MOD-032 to build quality models to conduct this assessment and produce quality results.						
SPP recommends that the drafting team pro NERC's expectations for this standard.	ovides clarity/tangible solutions via technical documentation to help industry get a better understanding on					
Likes 0						
Dislikes 0						
Response						
Stephen Stafford - Stephen Stafford On E	Behalf of: Greg Davis, Georgia Transmission Corporation, 1; - Stephen Stafford					
Answer	No					
Document Name						
Comment						
The chronological order is immaterial at this order of requirements can be determined.	time. The issues outlined in the subsequent comments need to be addressed before the chronological					
Likes 0						
Dislikes 0						
Response						
Diana Aguas - CenterPoint Energy Hous	ion Electric, LLC - 1 - Texas RE					
Answer	No					
Document Name						
Comment						

It's unclear to SPP how the "chronological order" helps the success of the proposed standard to move forward. Industry has identified too many

unresolved issues with the proposed requirements to make any type of determination. For example, the drafting team has not provided any resolution or

CenterPoint Energy Houston Electric, LLC (CEHE) disagrees with the proposed standard overall and definition of an "Extreme Temperature Assessment". Clarification on what "extreme heat" and "extreme cold temperature" and details on the meaning of benchmark events are needed.

CEHE has identified a few issues related to the Electric Reliability Organization (ERO) library. First, there is little information on the overall reliability benefit of the standard and details of exactly what the library will contain, how it will get populated, or which forms of data will be kept. Second, there is no requirement that authorizes the upkeep and ongoing maintenance of said library. Third, using one extreme heat benchmark, and one extreme cold benchmark, as approved by the ERO, ignores local extreme temperature events, and may exclude entities who may experience micro weather events. Extreme Temperature Assessments should include regional and significant local events. It is not clear who in the ERO approves and maintains a library of benchmarked events, or how this process is done for transparency. It is difficult to support or agree with the proposed language if the ERO has not made the library available and defined "Extreme Temperature Assessment" criteria or defined benchmark event criteria. CEHE would like

clarification on the benchmark events, and further clarification on criteria to determine this responsibility. CEHE believes the PC should assume the responsibility to provide these system wide studies, since TPs already provide BPS data to the PC. The approved library of benchmark events is currently not available to Transmission Planners (TPs), therefore, CEHE cannot support any of the proposed requirements as written.					
Likes 0					
Dislikes 0					
Response					
Andy Thomas - Duke Energy - 1,3,5,6 - S	ERC,RF				
Answer	Yes				
Document Name					
Comment					
None.					
Likes 0					
Dislikes 0					
Response					
Mark Garza - FirstEnergy - FirstEnergy C	Corporation - 4, Group Name FE Voter				
Answer	Yes				
Document Name					
Comment					
FirstEnergy has no concerns with the order	of the requirements.				
Likes 0					
Dislikes 0					
Response					
Daniel Gacek - Exelon - 1					
Answer	Yes				
Document Name					
Comment					

Exelon agrees with the proposed TPL-008-	1 Reliability Standard Requirement layout.			
Likes 0				
Dislikes 0				
Response				
Daniela Atanasovski - APS - Arizona Pub	olic Service Co 1			
Answer	Yes			
Document Name				
Comment				
None				
Likes 0				
Dislikes 0				
Response				
Rachel Schuldt - Black Hills Corporation	- 6, Group Name Black Hills Corporation - All Segments			
Answer	Yes			
Document Name				
Comment				
Black Hills Corporation has no concerns wit	h the updated chronological order of the requirements.			
Likes 0				
Dislikes 0				
Response				
Richard Vendetti - NextEra Energy - 5				
Answer	Yes			
Document Name				
Comment				
NextEra is not concerned with the order of the requirements.				

Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA	A - Not Applicable - NA - Not Applicable
Answer	Yes
Document Name	
Comment	
EEI is not concerned with the order of the re	equirements.
Likes 0	
Dislikes 0	
Response	
Selene Willis - Edison International - Sou	rthern California Edison Company - 5
Answer	Yes
Document Name	
Comment	
Please see comments from EEI	
Likes 0	
Dislikes 0	
Response	
Greg Sorenson - Greg Sorenson On Beh	alf of: Tyler Schwendiman, ReliabilityFirst , 10; - Greg Sorenson
Answer	Yes
Document Name	
Comment	
Our comments still haven't been addressed percentile-based definition or other quantifia	. "Extreme heat and extreme cold temperatures hasn't been defined." We would prefer to see some able requirement.
Likes 0	
Dislikes 0	

Response		
Kinte Whitehead - Exelon - 3		
Answer	Yes	
Document Name		
Comment		
Exelon agrees with the proposed TPL-008-	1 Reliability Standard Requirement layout.	
Likes 0		
Dislikes 0		
Response		
Keith Jonassen - Keith Jonassen On Bel	nalf of: John Pearson, ISO New England, Inc., 2; - Keith Jonassen	
Answer	Yes	
Document Name		
Comment		
While ISO-NE believes that the Standard as written includes the requirements needed, there are areas in which the Standard Requirements could be combined or moved around, such as moving R8 earlier as a requirement describing how often a process should be completed is typically included as early as possible within the Standard.		
Recommendation: Make R8, R2, and adjusting the rest accordingly.		
ISO-NE recommends that the SDT review areas where Requirements could be combined to simplify or clarify the flow of requirements. TPL-007 is an example of how out of order requirements can confuse the industry, which required a flowchart in the technical rationale to illustrate the order in which requirements are performed.		
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 does not have any concerns with the order of the requirements.		
Likes 0		
Dislikes 0		
Response		
Bob Cardle - Bob Cardle On Behalf of: M 3, 1, 5; Tyler Brun, Pacific Gas and Elect	larco Rios, Pacific Gas and Electric Company, 3, 1, 5; Sandra Ellis, Pacific Gas and Electric Company, ric Company, 3, 1, 5; - Bob Cardle	
Answer	Yes	
Document Name		
Comment		
PGAE agrees with the chronological order of	of the proposed TPL-008-1.	
Likes 0		
Dislikes 0		
Response		
Robert Blackney - Edison International -	Southern California Edison Company - 1	
Answer	Yes	
Document Name		
Comment		
See comments submitted by Edison Electric Institute		
Likes 0		
Dislikes 0		
Response		
Chantal Mazza - Chantal Mazza On Behalf of: Nicolas Turcotte, Hydro-Quebec (HQ), 1, 5; - Chantal Mazza		
Answer	Yes	
Document Name		
Comment		
Likes 0		

Dislikes 0		
Response		
Jeffrey Streifling - NB Power Corporation	n - 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		
Alyssia Rhoads - Public Utility District No. 1 of Snohomish County - 1		
Answer	Yes	
Document Name		
Comment		
Likes 1	Snohomish County PUD No. 1, 3, Chaney Holly	
Dislikes 0		
Response		
Jessica Cordero - Unisource - Tucson E	lectric Power Co 1	
Answer	Yes	

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Eric Sutlief - CMS Energy - Consumers E	nergy Company - 3,4,5 - RF
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Chelsea Loomis - Western Power Pool -	NA - Not Applicable - WECC, Group Name WPP Consortium of Engineers
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Srikanth Chennupati - Entergy - Entergy Services, Inc 1,3,5,6 - SERC	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response		
Jennifer Weber - Tennessee Valley Auth	ority - 1,3,5,6 - SERC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Lidija Efremova - Lidija Efremova On Be	ehalf of: Emma Halilovic, Hydro One Networks, Inc., 1; - Lidija Efremova	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Joyce Gundry - Public Utility District No. 1 of Chelan County - 3, Group Name CHPD		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Duane Franke - Manitoba Hydro - 1,3,5,6		
Answer	Yes	
Document Name		

Comment		
Likes 0		
Dislikes 0		
Response		
Ronald Hoover - Bonneville Power Admi	nistration - 1,3,5,6 - WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Fon Hiew - NB Power Corporation - New	Brunswick Power Transmission Corporation - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Zahid Qayyum - New York Power Authority - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Sean Bodkin - Dominion - Dominion Resources, Inc 6, Group Name Dominion	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordina	ting Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Broc Bruton - Broc Bruton On Behalf o	f: Byron Booker, Oncor Electric Delivery, 1; - Broc Bruton
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Robert Jones - Seattle City Light - 1,3,4	1,5,6
Answer	Yes
Document Name	
Comment	

Likes 0		
Dislikes 0		
Response		
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Kevin Smith, Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD and BANC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Donald Lock - Talen Generation, LLC - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Barbara Marion - Dominion - Dominion Resources, Inc 5, Group Name Dominion		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		

Response	Response	
Robert Follini - Avista - Avista Corporation - 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Chris Wagner - Santee Cooper - 1, Group	p Name Santee Cooper	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kevin Conway - Western Power Pool - 4		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Junji Yamaguchi - Hydro-Quebec (HQ) -		
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		
Helen Lainis - Independent Electricity Sy	stem Operator - 2	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Devin Shines - PPL - Louisville Gas and Electric Co 1,3,5,6 - SERC,RF		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Rachel Coyne - Texas Reliability Entity, Inc 10	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mike Magruder - Avista - Avista Corpora	tion - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michele Tondalo - United Illuminating Co	o 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Israel Perez - Israel Perez On Behalf of: Laura Somak, Salt River Project, 3, 6, 5, 1; Mathew Weber, Salt River Project, 3, 6, 5, 1; Thomas Johnson, Salt River Project, 3, 6, 5, 1; Timothy Singh, Salt River Project, 3, 6, 5, 1; - Israel Perez	
Answer	Yes
Document Name	

Comment		
Likes 0		
Dislikes 0		
Response		
Danielle Moskop - Danielle Moskop On B	sehalf of: David Jendras Sr, Ameren - Ameren Services, 3, 6, 1; - Danielle Moskop	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Steven Rueckert - Western Electricity Co	ordinating Council - 10, Group Name WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Teresa Krabe - Lower Colorado River Authority - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Hillary Creurer - Allete - Minnesota Power, Inc 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Carver Powers - Utility Services, Inc 4		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Matt Lewis - Lower Colorado River Authority - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Michele Shafer - New York State Electric & Gas (NYSEG) - 6		
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Rebika Yitna - Rebika Yitna On Behalf of	David Weekley, MEAG Power, 3, 1; Roger Brand, MEAG Power, 3, 1; - Rebika Yitna
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Constantin Chitescu - Ontario Power Ge	neration Inc 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ben Hammer - Western Area Power Adm	inistration - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Bobbi Weich - Midcontinent ISO, Inc 2,	Group Name ISO/RTO Council Standards Review Committee (SRC) Project 2023-07 TPL-008-1 Draft #2	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kennedy Meier - Electric Reliability Cour	ncil of Texas, Inc 2	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Apollonia Gonzales - PNM Resources - F	Public Service Company of New Mexico - 1,3,5 - WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
John Brewer - National Energy Technology	ogy Laboratory - 9 - NA - Not Applicable	
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Usama Tahir - Seminole Electric Coopera	ative, Inc 3
Answer	
Document Name	
Comment	
No comment	
Likes 0	
Dislikes 0	
Response	
Elizabeth Davis - Elizabeth Davis On Beh	nalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis
Answer	
Document Name	
Comment	
PJM recommends the following changes to	the order of the requirements:
R8 should be moved up. The standard need	ding to be met once every five years should be right up front.
R2 and R4 need to be together as they describe the cases. They should also clearly denote that both power flow and dynamics benchmark and sensitivity cases need to be constructed.	
Likes 0	
Dislikes 0	
Response	

2. The DT updated Requirements R1 – R2 based on comments received. Do you agree with the updated proposed TPL-008-1 Reliability Standard Requirements R1-R2? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

Long Island Power Authority	
Answer	No
Document Name	(if an attachment is provided by submitter)

Comment

The text of Requirement #2 mentions "benchmark library, approved and maintained by the Electric Reliability Organization (ERO)".

Similar to Attachment 1 of TPL-007-4, we recommend that the final version of the standard include an attachment that contains details of the extreme heat and extreme cold benchmark events, or at least some mention of the public facing library (site) to be created by Q4 2024 (as mentioned in the TPL-008 webinar in July 2024) and maintained by NERC. Ideally, stakeholders should have the opportunity to review the list of events and understand how they apply to their region, and what assessments they would need to conduct ahead of being asked to approve this standard.

Likes 0	# of other submitters who agree with these comments
Dislikes 0	# of other submitters who disagree with these comments

Response

(Drafting team's response to submitter's comments)

John Brewer - National Energy Technology Laboratory - 9 - NA - Not Applicable

	•
Answer	No
Document Name	

Comment

(R1) No issue.

(R2) R2 requirements refer to the benchmark library, approved and maintained by the ERO. However, Draft of ERO Enterprise Process for TPL-008-1 Benchmark Weather Event Development and Maintenance (July 2004) states "ERO Enterprise staff will develop and maintain a library of benchmark weather events (herein as the Weather Event Library) to be used by Planning Coordinators and Transmission Planners for TPL-008-1 studies." Consider aligning nomenclature "benchmark library" and "Weather Event Library" in these two documents so there is no confusion as documents advance.

(R2) R2 states that each responsible entity shell select extreme events from the library; however, it does not specify should they choose from the benchmark events(s) that NERC will submit to FERC in December 2024 (and every five years after that, e.g., 2029, 2034), or any event from the NERC's "live" Weather Event

Library that will go through updated from 2025 Maintenance.	– 2029 as described in the Draft ERO Enterprise Process for TPL-008-1 Benchmark Weather Event Development and	
the library in the ERO. Draft ERO Enterprise Pro Enterprise Review Panel (review panel) compris benchmark events. Should the same review par	e benchmark library, approved and maintained by the ERO." NERC should be more specific about who will approve cess for TPL-008-1 Benchmark Weather Event Development and Maintenance states that "NERC will form an ERO sed of not less than four (4) total individuals from the applicable Regional Entities and NERC" to review entity-created nel review all benchmark temperature event(s) from the library, including those developed by ERO? We suggest to y the Electric Reliability Organization (ERO)" with "approved and maintained by the Electric Reliability Organization	
Likes 0		
Dislikes 0		
Response		
Robert Blackney - Edison International -	• •	
Answer	No	
Document Name		
Comment		
See comments submitted by Edison Electric	c Institute	
Likes 0		
Dislikes 0		
Response		
Bob Cardle - Bob Cardle On Behalf of: Marco Rios, Pacific Gas and Electric Company, 3, 1, 5; Sandra Ellis, Pacific Gas and Electric Company, 3, 1, 5; Tyler Brun, Pacific Gas and Electric Company, 3, 1, 5; - Bob Cardle		
Answer	No	
Document Name		
Comment		
NERC entities operate transmission and generation assets across an enormous service territory and a variety of weather conditions. Every entity has its own unique "extreme weather condition(s)" to manage. PGAE would like to better understand the benefits of using a centralized benchmark library (still under development) over localized weather condition assessments.		
Likes 0		
Dislikes 0		
Response		

Usama Tahir - Seminole Electric Coopera	ative, Inc 3	
Answer	No	
Document Name		
Comment		
not agree on all terms or there may result a	P to be responsible for R1. By allowing the responsible party to be either the TP or PC, the two parties may reliability gap. Seminole would like clarification on which responsibilities will belong to the Planning minole would like a longer implementation timeline of R2,R3,R4,R5,R6, R7, R8, R9, R10, R11	
Likes 0		
Dislikes 0		
Response		
Diana Aguas - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE		
Answer	No	
Document Name		
Comment		
CEHE agrees with EEI comments, we continue to have concerns with Requirement R2 because this requirement relies on an ERO developed benchmark library that is being developed without industry review and approval, and as of this draft we continue to only have only superficial insights into this library. Moreover, the ERO was directed to set a framework with this Reliability Standard that included specific bounds by which the industry could conduct their extreme weather assessments. Yet, TPL-008-1 still does not contain any specific boundary limits that could guide responsible entities in their Extreme Weather Assessments or otherwise limit what might be contained or added to the Extreme Weather Event Library, now or in the future. For these reasons we ask that the DT set clear bounds that guide these Extreme Weather Assessments and set boundaries for any future changes to the Extreme Weather Event Library.		
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 believes R2 should be assigned to the Planning Coordinator within the standard. To ITC the assignment of R2 to the Planning Coordinator would seem to make the work of the standard flow in a more cohesive manner. To ITC the events should be chosen by the PC and such that they fit within the process being developed by the PC in R3.

 The standard has the ERO identifying the weather events in the benchmark library. Is the ERO the correct entity to perform this work? The ERO is not an entity that is auditable. What happens if their work product is completed late? Also, will the entity identified to develop the benchmark weather events provide entities the opportunity to comment on the identified events? 	
Likes 0	
Dislikes 0	
Response	
Constantin Chitescu - Ontario Power Ge	neration Inc 5
Answer	No
Document Name	
Comment	
events. This is needed because stakeholde and what assessments they would need to Are the benchmark events considering region within the ERO benchmark library. It is extrentities to make appropriate changes to the	st that the standard includes an attachment that contains the extreme heat and extreme cold benchmark ers should have the opportunity to review the list of events and understand how they apply to their region, conduct ahead of being asked to approve this standard. Onal-specific extremes? We are interested in seeing how Canadian, provincial attributes are considered remely important that Canadian benchmarks are adequately reflected and/or provide flexibility for Canadian ERO benchmark library.
Likes 0	
Dislikes 0	
Response	
Stephen Stafford - Stephen Stafford On I	Behalf of: Greg Davis, Georgia Transmission Corporation, 1; - Stephen Stafford
Answer	No
Document Name	
Comment	
	uggested adding the "maintaining models" to the wording for R1 as that is an important joint responsibility for esment. The modifications in draft 2 do not address this concern.

The modifications to R2 in this draft did not improve the overall requirement from draft 1. It is understood the ERO is tasked with developing and maintaining a benchmark events library for use by the responsible entity in the required assessment. It is not clear what the events will ultimately be and how the benchmark events library is to be maintained and updated. The SDT should define and clarify the process for maintaining the benchmark library. GTC also recommends that the PC & TP be involved in the development and/or approval of the benchmark events.

Likes 0	
Dislikes 0	
Response	
Kinte Whitehead - Exelon - 3	
Answer	No
Document Name	
Comment	
R2 – Exelon believes it is not appropriate to impacts the compliance to the standard requ	assign the Electric Reliability Organization (ERO) responsibility within the standard requirement that directly uirement. There is a compliance risk to the directly assigned entity if the ERO fails to uphold its responsibility linating this the way MMWG is coordinated through ERAG in the Eastern Interconnection. submitted by the EEI for this question.
Dislikes 0	
Response	
Shannon Mickens - Shannon Mickens O n SPP RTO	Behalf of: Joshua Phillips, Southwest Power Pool, Inc. (RTO), 2; - Shannon Mickens, Group Name
Answer	No
Document Name	
Comment	
unclear if the assessment was intended for a	equirement R2. The first concern focuses on the timing horizon of the study. As we reviewed draft 2, it was a near-term or long-term (six to ten year) horizon. In our review of TPL-001-5, Requirement R2 addresses we make the same assumption for TPL-008?

We recommend that the drafting team provide some clarity on the time horizon of the study for TPL-008. In the case the drafting team has the same intention for this standard as that of TPL-001-5, we recommend that they structure language like TPL-001-5 (i.e. 2.1, and 2.5).

As for the second concern, it is unclear in TPL-008 how the steady state and stability models (base case R4) will translate the benchmarked events (R2) into the models. At this point, there is no guidance on how to accomplish this goal of developing this type of models as well as conducting an assessment to produce quality results.

SPP recommends the drafting team takes into consideration coordinating with the NERC RSTC and their liaisons to help develop a guideline that will address uncharted territory applicable to the model build of this process.

The third and final concern relates to the expectations for the responsible entities to conduct an assessment from a library that does not currently exist.

responsible entities to support this requirem	ERC to construct the library to support the requirement's effort. However, we will find it difficult for the nent while there is no data to review. At this point, there is no official library data available for the responsible is compare those results with other entities to ensure quality results have been produced.
	ordinate with NERC staff and ensure that the library has been finalized before moving forward with this idustry to support this effort when there are still too many unresolved issues at this point.
Likes 0	
Dislikes 0	
Response	
Rebika Yitna - Rebika Yitna On Behalf of	: David Weekley, MEAG Power, 3, 1; Roger Brand, MEAG Power, 3, 1; - Rebika Yitna
Answer	No
Document Name	
Comment	
Benchmark library that is used for the Asses	ssment may be better maintained at a Regional level.
Likes 0	
Dislikes 0	
Response	
Donna Wood - Tri-State G and T Associa	tion, Inc 1
Answer	No
Document Name	
Comment	
Tri-State supports the comments submitted	by the MRO NSRF.
Likes 0	
Dislikes 0	
Response	
Matt Lewis - Lower Colorado River Author	ority - 1
Answer	No
Document Name	

Comment		
LCRA TSC agrees with other comments in that we would like to see the PCs maintain the benchmark event data for the applicable region rather than the data and library being entirely at one location under NERC control.		
Likes 0		
Dislikes 0		
Response		
Hillary Creurer - Allete - Minnesota Power	er, Inc 1	
Answer	No	
Document Name		
Comment		
Minnesota Power supports MRO's NERC S	Standards Review Forum's (NSRF) comments.	
Likes 0		
Dislikes 0		
Response		
Teresa Krabe - Lower Colorado River Au	ithority - 5	
Answer	No	
Document Name		
Comment		
LCRA agrees with other comments in that we would like to see the PCs maintain the benchmark event data for the applicable region rather than the data and library being entirely at one location under NERC control.		
Likes 0		
Dislikes 0		
Response		
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC		
Answer	No	
Document Name		
Comment		

use some judgement in Requirement R3 to coordinate individual TP events with the event selected by the PC.		
Likes 0		
Dislikes 0		
Response		
Selene Willis - Edison International - Sou	ıthern California Edison Company - 5	
Answer	No	
Document Name		
Comment		
Please see comments from EEI		
Likes 0		
Dislikes 0		
Response		
Mark Gray - Edison Electric Institute - NA	A - Not Applicable - NA - Not Applicable	
Answer	No	
Document Name		
Comment		
EEI has no concerns with the updated Requirement R1. However, we continue to have concerns with Requirement R2 because this requirement relies on an ERO developed benchmark library that is being developed without industry review and approval, and as of this draft we continue to only have superficial insights into this library. Moreover, the ERO was directed to set a framework with this Reliability Standard that included specific bounds by		

which the industry could conduct their extreme weather assessments. Yet, TPL-008-1 still does not contain any specific boundary limits that could guide responsible entities in their Extreme Weather Assessments or otherwise limit what might be contained or added to the Extreme Weather Event Library, now or in the future. For these reasons we ask that the DT set clear bounds that guide these Extreme Weather Assessments and set

but have intentionally left the specific boundaries to be set by the DT:

boundaries for any future changes to the Extreme Weather Event Library. To address this concern, we suggest the following change in boldface below,

Based on the sample benchmark information and assumed footprints of TPs/PCs, there could be situations where multiple Extreme Temperature Assessments may be needed to fully cover the risks posed. With the re-assessments required "at least once every five calendar years" should it be expected that identification of individual and joint responsibilities should occur for each Extreme Temperature Assessment and re-assessment? Would suggest removing the "or between departments of a vertically integrated system" as that would seem extremely limited in terms of actions needed to perform an Extreme Temperature Assessment. If Company A is a PC and a TP the individual and joint responsibilities are assigned to Company A from a compliance perspective. Requirement R2, as written, allows flexibility for PCs and TPs to select events best fitting their profile. The PCs will have to

2 Each responsible entity, as identified in Requirement R1, shall select at least one extreme heat benchmark temperature event and at least one extreme cold benchmark temperature event for completing the Extreme Temperature Assessment. [Violation Risk Factor: High] [Time Horizon: Long-erm Planning]		
	that includes at least 20 years of historical data (or as determined by the DT), up to no less than two years emperature Assessment is started.	
2.2 Reflect extreme temperat	cure conditions with a specified probability of (As determined by the DT) within the responsible entity's area.	
2.3 Align extreme weather te	mperatures with those specified by all adjacent Planning Coordinators and Transmission Planners areas.	
Likes 0		
Dislikes 0		
Response		
Danielle Moskon - Danielle Mos	skop On Behalf of: David Jendras Sr, Ameren - Ameren Services, 3, 6, 1; - Danielle Moskop	
Answer	No	
Document Name		
Comment		
Likes 0 Dislikes 0		
Response		
Devin Shines - PPL - Louisville	Gas and Electric Co 1,3,5,6 - SERC,RF	
Answer	No	
Document Name	TPL-008 Q2 Response.docx	
Comment		
PPL NERC Registered Affiliates a feedback in an effort to assist the attached document to improve up	agree with the general feedback provided by EEI. Throughout our responses we have provided additional, specific DT's work. We appreciate the work of the DT to address feedback received for R1-R2. We recommend changes in the pon the revisions.	
Likes 0		
Dislikes 0		
Response		

Pamela Hunter - Southern Company - Southern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company		
Answer	No	
Document Name		
Comment		
Southern Company agrees with EEI's comment. Additionally, the R2 and M2 language should be revised to extreme heat/cold temperature benchmark event for consistency with other mentions of 'temperature benchmark events', as opposed to 'benchmark temperature events'. This verbiage should be propagated consistently through the standard.		
Likes 0		
Dislikes 0		
Response		
Junji Yamaguchi - Hydro-Quebec (HQ) - (5	
Answer	No	
Document Name		
Comment		
 Similar to Attachment 1 of TPL-007-4, we suggest that the standard includes an attachment that contains the extreme heat and extreme cold benchmark events. This is needed because stakeholders should have the opportunity to review the list of events and understand how they apply to their region, and what assessments they would need to conduct ahead of being asked to approve this standard. Are the benchmark events considering regional-specific extremes? We are interested in seeing how Canadian, provincial attributes are considered within the ERO benchmark library. It is extremely important that Canadian benchmarks are adequately reflected and/or provide flexibility for Canadian entities to make appropriate changes to the ERO benchmark library. 		
Likes 0		
Dislikes 0		
Response		
Richard Vendetti - NextEra Energy - 5		
Answer	No	
Document Name		
Comment		
NextEra supports EEI's comments		

EEI has no concerns with the updated Requirement R1. However, we continue to have concerns with Requirement R2 because this requirement relies on an ERO developed benchmark library that is being developed without industry review and approval, and as of this draft we continue to only have only superficial insights into this library. Moreover, the ERO was directed to set a framework with this Reliability Standard that included specific bounds by which the industry could conduct their extreme weather assessments. Yet, TPL-008-1 still does not contain any specific boundary limits that could guide responsible entities in their Extreme Weather Assessments or otherwise limit what might be contained or added to the Extreme Weather Event Library, now or in the future. For these reasons we ask that the DT set clear bounds that guide these Extreme Weather Assessments and set boundaries for any future changes to the Extreme Weather Event Library. To address this concern, we suggest the following change in boldface below, but have intentionally left the specific boundaries to be set by the DT:		
R.2 Each responsible entity, as identified in Requirement R1, shall select at least one extreme heat benchmark temperature event and at least one extreme cold benchmark temperature event, from the benchmark library, approved and maintained by the Electric Reliability Organization (ERO), for completing the Extreme Temperature Assessment. [Violation Risk Factor: High] [Time Horizon: Long-term Planning]		
2.1 Utilize metrological data that include prior to the year the Extreme Temperature	des at least 20 years of historical data (<i>or as determined by the DT</i>), up to no less than two years re Assessment is started.	
1.2 Reflect extreme temperature con	ditions with a specified probability of (As determined by the DT) within the responsible entity's area.	
1.3 Align extreme weather temperatu	res with those specified by all adjacent Planning Coordinators and Transmission Planners areas.	
Likes 0		
Dislikes 0		
Response		
Kevin Conway - Western Power Pool - 4		
Answer	No	
Document Name		
Comment		
Would like to see a more concrete Benchma	ark Event Library functioning.	
Likes 0		
Dislikes 0		
Response		
Chris Wagner - Santee Cooper - 1, Group	Name Santee Cooper	
Answer	No	
Document Name		

Comment	
For R2, Santee Cooper is concerned with the and maintained by the Electric Reliability Of to access and review the library before app	ne extreme heat and cold benchmark temperature being selected from a benchmark library that is approved rganization (ERO). This may be better coordinated, assessed and planned at the Regional level. Being able roving the requirement would be helpful.
Likes 0	
Dislikes 0	
Response	
Amy Wilke - American Transmission Con	npany, LLC - 1
Answer	No
Document Name	
Comment	
ATC supports the MRO NSRF comments.	
Likes 0	
Dislikes 0	
Response	
Hayden Maples - Hayden Maples On Beh Tiffany Lake, Evergy, 3, 5, 1, 6; - Hayden	alf of: Jeremy Harris, Evergy, 3, 5, 1, 6; Kevin Frick, Evergy, 3, 5, 1, 6; Marcus Moor, Evergy, 3, 5, 1, 6 Maples
Answer	No
Document Name	
Comment	
Evergy supports and incorporates by refere Standards Review Forum (MRO NSRF) on	nce the comments of the Edison Electric Institute (EEI) and the Midwest Reliability Organization's NERC question 2
Likes 0	
Dislikes 0	
Response	
Barbara Marion - Dominion - Dominion R	tesources, Inc 5, Group Name Dominion
Answer	No
Document Name	

Comment		
There are concerns over the CAP as well a	s ambiguity in R2.	
Likes 0		
Dislikes 0		
Response		
Donald Lock - Talen Generation, LLC - 5		
Answer	No	
Document Name		
Comment		
destructive was that it began with an ice sto	ot get the job done; combinations of weather threats must be studied. What made Winter Storm Uri so orm, taking-out the wind fleet of northern Texas, followed by a deep freeze with high winds, then a wind ecceded by drenching rain, which soaked insulation and made generation units vulnerable to the combination lowed.	
Likes 0		
Dislikes 0		
Response		
Utility District, 3, 6, 4, 1, 5; Kevin Smith,	arles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, 3, nicipal Utility District, 3, 6, 4, 1, 5; - Tim	
Answer	No	
Document Name		
Comment		
SMUD supports the comments submitted by the MRO NSRF.		
Likes 0		
Dislikes 0		
Response		
Rachel Schuldt - Black Hills Corporation - 6, Group Name Black Hills Corporation - All Segments		
Answer	No	

Document Name			
Comment			
Black Hills Corporation has no concerns with the updated requirement R1 language. However, Black Hills Corporation has concerns with requirement R2 and echoes the comments developed by EEI, which are in italics below. Black Hills Corporation is concerned with the limited visibility and ubsequent review by industry of the benchmark library being developed by the ERO.			
[W]e continue to have concerns with Requirement R2 because this requirement relies on an ERO developed benchmark library that is being developed without industry review and approval, and as of this draft we continue to only have only superficial insights into this library. Moreover, the ERO was directed to set a framework with this Reliability Standard that included specific bounds by which the industry could conduct their extreme weather assessments. Yet, TPL-008-1 still does not contain any specific boundary limits that could guide responsible entities in their Extreme Weather Assessments or otherwise limit what might be contained or added to the Extreme Weather Event Library, now or in the future. For these reasons we ask that the DT set clear bounds that guide these Extreme Weather Assessments and set boundaries for any future changes to the Extreme Weather Event Library. To address this concern, we suggest the following change in boldface below, but have intentionally left the specific boundaries to be set by the DT:			
R.2 Each responsible entity, as identified in Requirement R1, shall select at least one extreme heat benchmark temperature event and at least one extreme cold benchmark temperature event (remove:, from the benchmark library, approved and maintained by the Electric Reliability Organization (ERO)), for completing the Extreme Temperature Assessment. [Violation Risk Factor: High] [Time Horizon: Long-term Planning]			
1.1 Utilize metrological data that includes at least 20 years of historical data (or as determined by the DT), up to no less than two years perior to the year the Extreme Temperature Assessment is started.			
2.1. Reflect extreme temperature cond	2.1. Reflect extreme temperature conditions with a specified probability of (As determined by the DT) within the responsible entity's area.		
2.2. Align extreme weather temperatures with those specified by all adjacent Planning Coordinators and Transmission Planners areas.'			
Likes 0			
Dislikes 0			
Response			
Robert Jones - Seattle City Light - 1,3,4,5	,6		
Answer	No		
Document Name			
Comment			
t is difficult to evaluate this requirement without a functioning Benchmark Event Library or a far more explicit description of what will be included in the ibrary.			
Likes 0			
Dislikes 0			
Response			

Broc Bruton - Broc Bruton On Behalf of: Byron Booker, Oncor Electric Delivery, 1; - Broc Bruton		
Answer	No	
Document Name		
Comment		
Oncor would like to ensure transparency in how the benchmark events are developed, chosen, calculated, and maintained. We agree with other's comments in that we would like to see the PCs maintain the benchmark event data for the applicable region rather than the data and library being entirely at one location under NERC control. This approach would likely make the data more transparent and accessible to the affected utilities than having a sole central repository at NERC for all regions of the country. In addition, the PC is likely to have more specific knowledge about effective methods of tuning and modifying the cases than NERC staff.		
Likes 0		
Dislikes 0		
Response		
Daniel Gacek - Exelon - 1		
Answer	No	
Document Name		
Comment		
R1 – Exelon does not have any objections t	o the proposed language for Requirement R1.	
R2 – Exelon believes it is not appropriate to assign the Electric Reliability Organization (ERO) responsibility within the standard requirement that directly impacts the compliance to the standard requirement. There is a compliance risk to the directly assigned entity if the ERO fails to uphold its responsibility to maintain the database. We suggest coordinating this the way MMWG is coordinated through ERAG in the Eastern Interconnection.		
Additionally, Exelon supports the comments submitted by the EEI for this question.		
Likes 0		
Dislikes 0		
Response		
Ruida Shu - Northeast Power Coordinatin	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	
Answer	No	
Document Name		

events. This is needed because stakeholde	It that the standard includes an attachment that contains the extreme heat and extreme cold benchmark ers should have the opportunity to review the list of events and understand how they apply to their region, conduct ahead of being asked to approve this standard.
	onal-specific extremes? We are interested in seeing how Canadian, provincial attributes are considered emely important that Canadian benchmarks are adequately reflected and/or provide flexibility for Canadian ERO benchmark library.
Likes 0	
Dislikes 0	
Response	
Anna Martinson - MRO - 1,2,3,4,5,6 - MRO	O, Group Name MRO Group
Answer	No
Document Name	
Comment	
R1 . The MRO NSRF supports the SDT's de	cisions and proposes modifications to others as detailed below. cision to shorten the language to "completing." other as they both describe necessary cases. One should not have to read through R6 to know dynamic
cases are also required.	other as they both describe necessary cases. One should not have to read through no to know dynamic
Likes 1	Scott Brame, N/A, Brame Scott
Dislikes 0	
Response	
Sean Bodkin - Dominion - Dominion Res	ources, Inc 6, Group Name Dominion
Answer	No
Document Name	
Comment	
Dominion Energy supports EEI comments	
Likes 0	
Dislikes 0	
Response	

Zahid Qayyum - New York Power Authority - 5	
Answer	No
Document Name	
Comment	
• NYPA Disagrees with R2 stating 'benchmark library, approved and maintained by the Electric Reliability Organization (ERO)'. We believe that for greater effectiveness and suitability, the responsibility for maintaining and updating the library should be emphasized at the regional entity level rather than the ERO to better incorporate regional variability.	

• Is the use of "category P0" to describe normal system condition in R1 appropriate, given that it includes both benchmark and extreme events, which are not typically considered normal operating conditions?

Likes 0	
Dislikes 0	

Response

Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter

Answer	No
Document Name	

Comment

FirstEnergy supports EEI's comments which state:

EEI has no concerns with the updated Requirement R1. However, we continue to have concerns with Requirement R2 because this requirement relies on an ERO developed benchmark library that is being developed without industry review and approval, and as of this draft we continue to only have superficial insights into this library. We also do not agree that ERO responsibilities and obligations need to be stated in the Requirement. To address this concern, we suggest the following change in boldface below:

- R.2 Each responsible entity, as identified in Requirement R1, shall select at least one extreme heat benchmark temperature event and at least one extreme cold benchmark temperature event, from the **Extreme Weather Event L**ibrary, for completing the Extreme Temperature Assessment. [Violation Risk Factor: High] [Time Horizon: Long-term Planning]
- 2.1 Utilize metrological data that includes at least 20 years of historical data (or as determined by the DT), up to no less than two years prior to the year the Extreme Temperature Assessment is started.
- 2.2 Reflect extreme temperature conditions with a specified probability of (As determined by the DT) within the responsible entity's area.
- 2.3 Align extreme weather temperatures with those specified by all adjacent Planning Coordinators and Transmission Planners areas.

Likes 0		
Dislikes 0		
Response		
Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF		
Answer	No	
Document Name		
Comment		
	implementation of EEI comments. Additionally, the standard language ERO developed benchmark library tity standardized benchmark library should be developed, maintained, and remain with local or regional	
Likes 0		
Dislikes 0		
Response		
Fon Hiew - NB Power Corporation - New	Brunswick Power Transmission Corporation - 5	
Answer	No	
Document Name		
Comment		
Like Attachment 1 of TPL-007-4, we suggest that the standard includes an attachment that contains the extreme heat and extreme cold benchmark events. This is needed because stakeholders should have the opportunity to review the list of events and understand how they apply to their region, and what assessments they would need to conduct ahead of being asked to approve this standard. Are the benchmark events considering regional-specific extremes? We are interested in seeing how Canadian, provincial attributes are considered		
within the ERO benchmark library. It is extremely important that Canadian benchmarks are adequately reflected and/or provide flexibility for Canadian entities to make appropriate changes to the ERO benchmark library.		
	ERO benchmark library.	
	ERO benchmark library.	
entities to make appropriate changes to the	ERO benchmark library.	
entities to make appropriate changes to the Likes 0	ERO benchmark library.	
entities to make appropriate changes to the Likes 0 Dislikes 0	ERO benchmark library.	
entities to make appropriate changes to the Likes 0 Dislikes 0 Response	ERO benchmark library. half of: Emma Halilovic, Hydro One Networks, Inc., 1; - Lidija Efremova	

Document Name	
Comment	
Comments:	
	we suggest that the standard includes an Attachment 1 that contains a list or examples of the extreme heat is required to avoid confusion because stakeholders need to know how and what assessments they need to standard is posted for approval.
	g regional-specific extremes? We are interested in seeing how Canadian, provincial attributes are considered remely important that Canadian benchmarks are adequately reflected and provide flexibility for Canadian to the ERO benchmark library.
Likes 0	
Dislikes 0	
Response	
Jennifer Weber - Tennessee Valley Author	ority - 1,3,5,6 - SERC
Answer	No
Document Name	
Comment	
(R1) No issues.	
	orary that is not currently accessible, and therefore not fully understood, we are unable to express support for ccessible the benchmark temperature event library prior to seeking concurrence on a dependent
Likes 0	
Dislikes 0	
Response	
Srikanth Chennupati - Entergy - Entergy	Services, Inc 1,3,5,6 - SERC
Answer	No
Document Name	
Comment	

For R2: Technical Rationale states that "The ERO will maintain a library of benchmark events and develop a process to incorporate additional events proposed by responsible entities." The standard does not provide any mechanism for responsible entities to propose events or collaborate on the review or approval process. As we commented before, this gives the ERO the ability to change compliance requirements at will (by changing or removing approved benchmark events) without going through any of the usual industry collaboration process. This standard should have a requirement for the

	ors to identify the benchmark events, or require the Planning Coordinators to collectively identify benchmark ave the ERO simply provide a place to host the information.
Likes 0	
Dislikes 0	
Response	
Chelsea Loomis - Western Power Pool -	NA - Not Applicable - WECC, Group Name WPP Consortium of Engineers
Answer	No
Document Name	
Comment	
Would like to see a more concrete Benchm	ark Event Library functioning.
Likes 0	
Dislikes 0	
Response	
Eric Sutlief - CMS Energy - Consumers E	Energy Company - 3,4,5 - RF
Answer	No
Document Name	
Comment	
and the extreme temperature events open to development and maintenance process; ho benchmark events. Stakeholders cannot vo	in an attempt to address concerns with the proposed benchmark library, R2 continues to leave this standard to broad adjustment without guaranteed stakeholder input. NERC has outlined a draft weather event wever, this is a draft, and there is currently no process outlined for stakeholders to challenge the validity of te to approve R2 to TPL-008 because this will create an undefined, unchecked path for changes to the red to be assessed and planned for, without guaranteed stakeholder input and opportunity to challenge
Likes 0	
Dislikes 0	
Response	
Alyssia Rhoads - Public Utility District N	o. 1 of Snohomish County - 1
Answer	No
Document Name	

Comment		
	not ERO. Not required for ERO to maintain this library, such libraries are better maintained at the Regional y are using the same criteria for Extrement Temperature Assessment.	
Likes 2	Snohomish County PUD No. 1, 3, Chaney Holly; Jennie Wike, N/A, Wike Jennie	
Dislikes 0		
Response		
Jeffrey Streifling - NB Power Corporation	n - 1	
Answer	No	
Document Name		
Comment		
Like Attachment 1 of TPL-007-4, we suggest that the standard includes an attachment that contains the extreme heat and extreme cold benchmark events. This is needed because stakeholders should have the opportunity to review the list of events and understand how they apply to their region, and what assessments they would need to conduct ahead of being asked to approve this standard. Are the benchmark events considering regional-specific extremes? We are interested in seeing how Canadian, provincial attributes are considered within the ERO benchmark library. It is extremely important that Canadian benchmarks are adequately reflected and/or provide flexibility for Canadian		
entities to make appropriate changes to the	LICO Delicilitatik libraty.	
Likes 0		
Dislikes 0		
Response		
	If of: Nicolas Turcotte, Hydro-Quebec (HQ), 1, 5; - Chantal Mazza	
Answer	No	
Document Name		
Comment		
1. Similar to Attachment 1 of TPL-007-4, we suggest that the standard includes an attachment that contains the extreme heat and extreme cold benchmark events. This is needed because stakeholders should have the opportunity to review the list of events and understand how they apply to their region, and what assessments they would need to conduct ahead of being asked to approve this standard.		
	g regional-specific extremes? We are interested in seeing how Canadian, provincial attributes are considered remely important that Canadian benchmarks are adequately reflected and/or provide flexibility for Canadian eRO benchmark library.	
Likes 0		

Dislikes 0	
Response	
Elizabeth Davis - Elizabeth Davis On Bel	nalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis
Answer	Yes
Document Name	
Comment	
PJM supports the IRC SRC comments.	
Likes 0	
Dislikes 0	
Response	
Kennedy Meier - Electric Reliability Cour	ncil of Texas, Inc 2
Answer	Yes
Document Name	
Comment	
ERCOT joins the comments submitted by the	ne ISO/RTO Council (IRC) Standards Review Committee (SRC) and adopts them as its own.
Likes 0	
Dislikes 0	
Response	
Bobbi Welch - Midcontinent ISO, Inc 2,	Group Name ISO/RTO Council Standards Review Committee (SRC) Project 2023-07 TPL-008-1 Draft #2
Answer	Yes
Document Name	
Comment	
	ew Committee (SRC)[1] supports the SDT's decision to shorten the language to "completing."
	C SRC includes the following entities: CAISO (except for our response re: Part 9.2 to question 5), ERCOT, 5 in its entirety), ISO-NE, MISO, NYISO, PJM and SPP.
Likes 0	

Dislikes 0		
Response		
Keith Jonassen - Keith Jonassen On Beh	eith Jonassen - Keith Jonassen On Behalf of: John Pearson, ISO New England, Inc., 2; - Keith Jonassen	
Answer	Yes	
Document Name		
Comment		
SO-NE recommends that the SDT review areas where Requirements could be combined to simplify or clarify the flow of requirements. TPL-007 is an example of how out of order requirements can confuse the industry, which required a flowchart in the technical rationale to illustrate the order in which equirements are performed. While ISO-NE appreciates the Benchmark Event Example, many concerns that the industry has regarding this standard and the studies that would be equired could be alleviated by the SDT/NERC providing a list of the Benchmark Temperature Events that would be available to choose from and what earameters are included for each event. It is difficult for areas to determine what would be required and to agree to perform studies on specific events without the list of events to choose from for the studies.		
the specific Benchmark Event Example, ISO-NE did not experience a cold weather event so there is no value in studying that particular event.		
SO-NE requests that a list of Benchmark Events be provided prior to any final Ballot on the TPL-008 Standard.		
n addition, the requirements to coordinate between PCs could cause a burden on PCs if their neighbors choose to study a different Benchmark Event. For example, the Benchmark Event Example of Winter Storm Elliot would not be an event ISO-NE would choose as it did not have a significant impact on the ISO-NE area; However, PJM as the PC may choose to study it. If ISO-NE chooses the January 1998 Ice Storm, what effect would that have on NYISO which is adjacent to both ISO-NE and PJM? Do they now have to coordinate with both for the separate studies? What if NYISO shooses to study Polar Vortex in 2014?		
Or, are we required to agree on a singular event to be studied? A line would need to be drawn somewhere. As in the case above, PJM wouldn't benefit from studying the 1998 Ice Storm and ISO-NE wouldn't benefit from studying Winter Storm Elliot. If so, some PCs may need to create model data for multiple Benchmark Events. In addition to possibly having to address multiple Events, some PCs may choose a different year (Year 6 through Year 10) within the Long-Term Planning Horizon, which further increases the burden associated with coordinating studies between the PCs.		
Likes 0		
Dislikes 0		
Response		
Carver Powers - Utility Services, Inc 4		
Answer	Yes	
Document Name		
Comment		

	cations directed by FERC in Order No. 896 and agree to the proposed modifications made by the standard agree due to not knowing the benchmarks to be set by NERC.
Likes 0	
Dislikes 0	
Response	
Helen Lainis - Independent Electricity Sy	stem Operator - 2
Answer	Yes
Document Name	
Comment	
	RO is currently working on Canadian benchmarks. It is very important that Canadian benchmarks are brary so that we can appropriately assess.
Likes 0	
Dislikes 0	
Response	
Duane Franke - Manitoba Hydro - 1,3,5,6	- MRO
Answer	Yes
Document Name	
Comment	
	ents identified for Canadian provinces. We assume NERC will reach out to applicable PCs/TPs to get the ember 2024 to prepare the benchmark list for the first five years (according to the draft ERO Enterprise
Likes 0	
Dislikes 0	
Response	
Apollonia Gonzales - PNM Resources - F	Public Service Company of New Mexico - 1,3,5 - WECC
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Ben Hammer - Western Area Power Adm	inistration - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michele Shafer - New York State Electric	& Gas (NYSEG) - 6
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Greg Sorenson - Greg Sorenson On Beh	alf of: Tyler Schwendiman, ReliabilityFirst , 10; - Greg Sorenson
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Israel Perez - Israel Perez On Behalf of: Laura Somak, Salt River Project, 3, 6, 5, 1; Mathew Weber, Salt River Project, 3, 6, 5, 1; Thomas Johnson, Salt River Project, 3, 6, 5, 1; Timothy Singh, Salt River Project, 3, 6, 5, 1; - Israel Perez		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Michele Tondalo - United Illuminating Co	o 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mike Magruder - Avista - Avista Corpora	tion - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Robert Follini - Avista - Avista Corporation		
Answer	Yes	
Document Name		
Comment		

Likes 0		
Dislikes 0		
Response		
Daniela Atanasovski - APS - Arizona Pub	lic Service Co 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Joyce Gundry - Public Utility District No.	1 of Chelan County - 3, Group Name CHPD	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Jessica Cordero - Unisource - Tucson Electric Power Co 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		
Ronald Hoover - Bonneville Power Adm	ninistration - 1,3,5,6 - WECC	
Answer		
Document Name		
Comment		
As there are still unknowns regarding the Benchmark Event Library, BPA cannot make a determination on R2 at this time. Once BPA can review the library, and attend the planned NERC training, BPA can review and provide more meaningful comments/feedback.		
Likes 0		
Dislikes 0		
Response		
Gary Trezza - Long Island Power Autho	rity - 1 - NPCC	
Answer		
Document Name		
Comment		
Similar to Attachment 1 of TPL-007-4, we heat and extreme cold benchmark events, TPL-008 webinar in July 2024) and mainta	recommend that the final version of the standard include an attachment that contains details of the extreme or at least some mention of the public facing library (site) to be created by Q4 2024 (as mentioned in the sined by NERC. Ideally, stakeholders should have the opportunity to review the list of events and understand assessments they would need to conduct ahead of being asked to approve this standard.	
Likes 0		
Dislikes 0		
Response		

3. The DT updated Requirements R3 – R5 based on comments received. Do you agree with the updated proposed TPL-008-1 Reliability Standard Requirements R3-R5? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.		
Long Island Power Authority		
Answer	Yes	
Document Name	(if an attachment is provided by submitter)	
Comment		
Requirement #5 mentions having criteria for acceptable System steady state voltage limits, post-Contingency voltage deviations, and applicable Facility Ratings. Is it the intent that entities will also have to have (and document) applicable thermal criteria for completing the Extreme Temperature Assessment? For example, allowing for the possible use of STE facility ratings post-contingency? In certain jurisdiction, extreme temperature ratings have been established, but that is not necessarily the case in all jurisdictions. Will facility owners be required to establish extreme cold or warm temperature ratings for this standard?		
Likes 0	# of other submitters who agree with these comments	
Dislikes 0	# of other submitters who disagree with these comments	
Response		
(Drafting team's response to submitt	er's comments)	
Chantal Mazza - Chantal Mazza On Behal	f of: Nicolas Turcotte, Hydro-Quebec (HQ), 1, 5; - Chantal Mazza	
Answer	No	
Document Name		
Comment		
We are concerned that the R3-R4 requirements may necessitate a significant coordination effort by each PC similar to the MMWG base case development for the Eastern Interconnection for each of the extreme weather events. Was this the intent of R3-R4? If so, it does not seem feasible to develop consistent wide-area cases when each PC can select unique events. We note that R4.1 gives the freedom for individual adjacent entities to choose a different year for the long-term horizon, which could result in the requirement to develop even more cases. However, we agree with R5.		
Likes 0		
Dislikes 0		
Response		

Jeffrey Streifling - NB Power Corporation - 1		
Answer	No	
Document Name		
Comment		
We are concerned that the R3-R4 requirements may necessitate a significant coordination effort by each PC like the MMWG base case development for the Eastern Interconnection for each of the extreme weather events. Was this the intent of R3-R4? If so, it does not seem feasible to develop consistent wide-area cases when each PC can select unique events. We note that R4.1 gives the freedom for individual adjacent entities to choose a different year for the long-term horizon, which could result in the requirement to develop even more cases. However, we agree with R5.		
Likes 0		
Dislikes 0		
Response		
Thomas Foltz - AEP - 5		
Answer	No	
Document Name		
Comment		
AEP is concerned by the phrase "at least one of the following conditions" within R4.2, as temperature would conceivably impact all three conditions specified: "Generation", "Real and reactive forecasted Load", and "Transfers." It follows then that using only one of these conditions could result in an analysis that might not capture all potential reliability issues. AEP believes the Technical Rationale could benefit from additional insight regarding the recommended conditions that might be considered for ensuring a high-quality analysis. AEP recommends revising the Technical Rationale document accordingly.		
AEP recommends to the SDT that care be taken to ensure that the obligations related to sensitivity cases align with the directives issued in FERC Order 1920.		
Likes 0		
Dislikes 0		
Response		
Alyssia Rhoads - Public Utility District No. 1 of Snohomish County - 1		
Answer	No	
Document Name		
Comment		

Comment	
Document Name	
Answer	No
Jennifer Weber - Tennessee Valley Author	ority - 1,3,5,6 - SERC
Response	
Dislikes 0	
Likes 0	
"other designated study entities" is unclear. the standard will be significant, particularly	R5 Risk factor should be Medium to match TPL 001-5. Concern that level of coordination needed to effect for "smaller" entities.
Comment	
Document Name	
Answer	No
Chelsea Loomis - Western Power Pool -	NA - Not Applicable - WECC, Group Name WPP Consortium of Engineers
100polio	
Dislikes 0 Response	
Likes 0 Dislikes 0	
R3: Base Case should include known outag	ges.
Comment	
Document Name	
Answer	No
Jessica Cordero - Unisource - Tucson El	lectric Power Co 1
Response	
Dislikes 0	
Likes 2	Snohomish County PUD No. 1, 3, Chaney Holly; Jennie Wike, N/A, Wike Jennie
	ties" listed in R3. "Other designated study entities" is an unclear term. R5 Risk factor should be Medium to cordination needed for the standard will be a concern, particularly for small utilities.

process and only required to be coordinated	suggest that "designated study entities" are to be identified as part of the PC developed coordination d with if included in the PC developed process. Otherwise, the term "designation" may suggest (1) the entities other than the PC may designate a study entity, or (3) they may self-identify. It is unclear how the e of entities to be possibly included.
	quires an increasingly more extreme scenario for purposes of a sensitivity analysis, is credible. This is zons when generation additions and retirements, along with transmission configuration changes and new ed.
(R5) No issues.	
Likes 0	
Dislikes 0	
Response	
Lidija Efremova - Lidija Efremova On Beł	nalf of: Emma Halilovic, Hydro One Networks, Inc., 1; - Lidija Efremova
Answer	No
Document Name	
Comment	
Eastern Interconnection for each of the extre develop consistent wide-area cases by each	ents necessitate a coordination effort by each PC very similar to the MMWG base case development for the eme weather events. Was this the intent of R3-R4? Please clarify. If so, it does not seem feasible to h PC when a PC can select its own unique events. We note that R4.1 also gives the flexibility for adjacent ng-term horizon, which could result in the requirement to develop even more cases. This undertaking must
Likes 0	
Dislikes 0	
Response	
Joyce Gundry - Public Utility District No.	1 of Chelan County - 3, Group Name CHPD
Answer	No
Document Name	
Comment	
CHPD believes the updates made to R3 through R5 were very good, with a couple concerns remaining. The statement 'and other designated study entities', is unclear. What is a study entity? Who is doing the designating? Due to non-clarity, it is recommended NERC provide clarity here or remove this language.	

In addition, an R5 concern is the VRF for the limits criteria is 'High' as proposed in TPL-008, while the same type of limits requirement has a VRF of 'Medium' in TPL-001-5 R5. It is requested the VRF for TPL-008 R5 be similarly set as 'Medium' for consistency.		
Likes 1	Jennie Wike, N/A, Wike Jennie	
Dislikes 0		
Response		
Duane Franke - Manitoba Hydro - 1,3,5,6	- MRO	
Answer	No	
Document Name		
Comment		
	eed to perform additional sensitivity studies as per R 4.2. We think R4.1 is sufficient to develop base cases, and transfers for extreme temperature events.	
Likes 0		
Dislikes 0		
Response		
Ronald Hoover - Bonneville Power Admi	nistration - 1,3,5,6 - WECC	
Answer	No	
Document Name		
Comment		
BPA believes "other designated study entities" in R3 is unclear. R4.1 – BPA recommends deleting the sentence "The rationale for the year selected for evaluation shall be available as supporting information" as it is unclear what type(s) of rationale would be required. BPA views this as a potential for undue compliance burden on industry and will create difficulty when providing compliance evidence artifacts."		
BPA recommends the R5 Risk Factor should be set to Medium to match TPL 001-5. BPA is concerned that the level of coordination needed is not well defined and will be very difficult for smaller entities.		
Likes 0		
Dislikes 0		

Fon Hiew - NB Power Corporation - New Brunswick Power Transmission Corporation - 5		
Answer	No	
Document Name		
Comment		
We are concerned that the R3-R4 requirements may necessitate a significant coordination effort by each PC like the MMWG base case development for the Eastern Interconnection for each of the extreme weather events. Was this the intent of R3-R4? If so, it does not seem feasible to develop consistent wide-area cases when each PC can select unique events. We note that R4.1 gives the freedom for individual adjacent entities to choose a different year for the long-term horizon, which could result in the requirement to develop even more cases. However, we agree with R5.		
Likes 0		
Dislikes 0		
Response		
Mark Garza - FirstEnergy - FirstEnergy C	Corporation - 4, Group Name FE Voter	
Answer	No	
Document Name		
Comment		
FirstEnergy supports EEI's comments whic	h state:	
EEI no concerns with the updated Requirement R1. However, we continue to have concerns with Requirement R2 because this requirement relies on an ERO developed benchmark library that is being developed without industry review and approval, including the deadlines for the review of the Extreme Temperature Assessments by adjacent PCs and TPs. To address our concerns, we offer the following in boldface for consideration:		
R3. Each Planning Coordinator shall develop and implement a process for developing benchmark planning cases, using the selected benchmark temperature events identified in Requirement R2. The process shall include: [Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]		
3.1. Seasonal and temperature dependent adjustments for Load, generation, Transmission, and transfers in the responsibility entity's area based on the extreme temperature conditions identified in Requirement R2.		
3.2.1 Processes for requesting seasonal and temperature dependent adjustments for Load, generation, Transmission, and transfers from the adjacent entity's area based on the extreme temperature conditions identified in Requirement R2 that obligate the adjacent PC & TP to respond within 6 months of the request.		
3.2.2 Obligation to respond to notify any affected Planning Coordinators and Transmission Planners of any concerns within 120 days of receipt of the data supplied.		
3.2.3 An additional 60 shall also be allotted to the responsible Planning Coordinator to resolve any issues or concerns cited by the adjacent Planning Coordinator or Transmission Planner.		
Likes 0		
Dislikes 0		
Response		

Zahid Qayyum - New York Power Authority - 5		
Answer	No	
Document Name		
Comment		
	lesignated study entities" is vague and requires clarification from the SDT for better understanding. The or this Standard may be a concern, particularly for small utilities.	
Likes 0		
Dislikes 0		
Response		
Anna Martinson - MRO - 1,2,3,4,5,6 - MRO	O, Group Name MRO Group	
Answer	No	
Document Name		
Comment		
The MRO NSRF's most significant concerns involve requirements R3 and R4 as detailed below.		
The Coordination Effort Required for Consistent, Wide-Area Cases Negates the Benefit of Choosing a Unique Benchmark Event		
R3. While the MRO NSRF agrees the proposed language, "among adjacent impacted Planning Coordinator(s), Transmission Planner(s), and other designated study entities," is an improvement over the prior language because it clarifies how far an entity must reach beyond its footprint to satisfy the requirement.		
That said, the MRO NSRF still has significant concerns regarding the number of studies which must be performed, particularly when a Planning Coordinator (PC) selects a benchmark temperature event that is different from that of its adjacent PC(s). In that situation, each benchmark temperature event may necessitate a significant coordination effort, similar to what is done to develop the MMWG base case for the Eastern Interconnection.		
If that's the case, it doesn't seem feasible to develop consistent, wide-area cases when each PC can select unique events. We also note that R4.1 gives each entity the freedom to choose a different year for the long-term horizon, which could further exacerbate the number of cases that must be developed to comply with the coordination process under R3.		

To address this concern, the MRO NSRF recommends a governing body identify the scenarios. Extreme temperature events will typically extend beyond the footprint of a single Planning Coordinator. To avoid putting the PCs in a position where they are required to agree on a scenario, a year and the sensitivity to be studied, NERC or other (e.g. ERAG) should identify the extreme heat and extreme cold temperature events to be studied. This is necessary for consistent modeling results across adjacent planning entities. Also, as a benchmark temperature event may extend across several

planning areas, the governing body must ta be studied so that no planning entity is assi	ke this into consideration when determining which extreme heat and extreme cold temperature events are to gned more than one of each.
	guage ("data consistent with that provided in accordance with the MOD-032 standard") and does not see a ever, depending upon what data the benchmark temperature event requires to perform the study, this may
Part 4.1 MRO NSRF supports Part 4.1 and	views the benchmark temperature event as a "base case sensitivity" to that performed under TPL-001.
Part 4.2 Is there an opportunity to "bake" se	ensitivities into the benchmark temperature event?
	nd applicable Facility Ratings" considering the need to comply with FERC Order 881 and Ambient Adjusted so exploring this further with its member TOs.
Likes 1	Scott Brame, N/A, Brame Scott
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC
Answer	No
Document Name	
Comment	
for the Eastern Interconnection for each of to consistent wide-area cases when each PC	ents may necessitate a significant coordination effort by each PC like the MMWG base case development the extreme weather events. Was this the intent of R3-R4? If so, it does not seem feasible to develop can select unique events. We note that R4.1 gives the freedom for individual adjacent entities to choose a ch could result in the requirement to develop even more cases. However, we agree with R5.
Likes 0	
Dislikes 0	
Response	
Daniel Gacek - Exelon - 1	
Answer	No
Document Name	

Comment		
	hat PCs and TPs need to coordinate and share data between themselves to build the cases in R4. This may ch responsible entity shall coordinate and cooperate with other responsible entities to create the benchmark	
	Propose to change it to "This process shall include documentation of assumptions that consider seasonal r Load, generation, Transmission, and transfers to represent the selected benchmark temperature events."	
R4 – No concerns from Exelon.		
R5 – No concerns from Exelon.		
Additionally, Exelon supports the comments	s submitted by the EEI for this question.	
Likes 0		
Dislikes 0		
Response		
Broc Bruton - Broc Bruton On Behalf of:	Byron Booker, Oncor Electric Delivery, 1; - Broc Bruton	
Answer	No	
Document Name		
Comment		
For R3, Oncor agrees with the idea that the	PC should have the responsibility for coordinating and developing benchmark planning cases.	
For R4, "Each responsible entity" could be replaced with language that is similar to R3, and it would instead read "Each Planning Coordinator" Oncor also asks whether language can be added to ensure that entities can take credit for studies that are run as part of the Sensitivity analysis, rather than running those studies again as part of the assessment to be conducted under TPL-001? For example, the Extreme Temperature Assessment could take the place of the sensitivity analysis required within the TPL-001 assessment for both the steady state and stability analyses. Moreover, if the Extreme Temperature Assessment is essentially a type of sensitivity analysis already, Oncor would advise removing R4.2 because this would create a sensitivity case based on a sensitivity case.		
For R5, Oncor urges its comment from R4, voltage limits and post-Contingency voltage	particularly because the PC would develop and maintain the criteria for acceptable System steady state deviations.	
Likes 0		
Dislikes 0		
Response		
Robert Jones - Seattle City Light - 1,3,4,5	5,6	
Answer	No	
Document Name		

Comment	
The term "other designated study entities" i	s unclear.
R5 Risk factor should be Medium to match	TPL-001-5.
The level of coordination needed to comply	with the standard will be significant, particularly for "smaller" entities.
Likes 0	
Dislikes 0	
Response	
Rachel Schuldt - Black Hills Corporation	- 6, Group Name Black Hills Corporation - All Segments
Answer	No
Document Name	
Comment	
'Requirement R3 does not provide sufficient Transmission Planners, including the deadle concerns, we offer the following in boldface R3. Each Planning Coordinator shall deplanning cases, using the selected benchmadjacent impacted Planning Coordinator process shall include seasonal and temps selected benchmark temperature events 3.1. Seasonal and temperature depended based on the extreme temperature cond 3.2.1 Processes for requesting seasonate adjacent entity's area based on the extreme temperature. 3.2.2 Obligation to respond to notify an receipt of the data supplied.	evelop and implement a process for developing (remove: coordinating the development of) benchmark tark temperature events identified in Requirement R2. The process shall include: (remove:, among r(s). Transmission Planner(s), and other designated study entities, within an Interconnection. This perature dependent adjustments for Load, generation, Transmission, and transfers to represent the L.) [Violation Risk Factor: Medium] [Time Horizon: Long-term Planning] Interpretation and transfers in the responsibility entity's area ditions identified in Requirement R2. Interpretative dependent adjustments for Load, generation, Transmission, and transfers from extreme temperature conditions identified in Requirement R2 that obligate the adjacent PC & TP to any affected Planning Coordinators and Transmission Planners of any concerns within 120 days of atted to the responsible Planning Coordinator to resolve any issues or concerns cited by the adjacent
DISIIKES U	
Resnonse	

Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Kevin Smith, Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD and BANC		
Answer	No	
Document Name		
Comment		
SMUD supports the comments submitted by entirety.	y the MRO NSRF regarding Requirement R4, Part 4.2 and recommends that Part 4.2 be removed in its	
Likes 0		
Dislikes 0		
Response		
Donald Lock - Talen Generation, LLC - 5		
Answer	No	
Document Name		
Comment		
PCs can model benchmark events only if having valid sensitivity factors for temperature, wind speed and precipitation. They do not presently have this information, and TPL-008-1 makes no suggestions in this respect other than that they refer to, "other sources as needed." These sources are non-existent.		
Likes 0		
Dislikes 0		
Response		
Hayden Maples - Hayden Maples On Behalf of: Jeremy Harris, Evergy, 3, 5, 1, 6; Kevin Frick, Evergy, 3, 5, 1, 6; Marcus Moor, Evergy, 3, 5, 1, 6; Tiffany Lake, Evergy, 3, 5, 1, 6; - Hayden Maples		
Answer	No	
Document Name		
Comment		
Evergy supports and incorporates by reference the comments of the Edison Electric Institute (EEI) and the Midwest Reliability Organization's NERC Standards Review Forum (MRO NSRF) on question 3		
Likes 0		

Dislikes 0		
Response		
Amy Wilke - American Transmission Company, LLC - 1		
Answer	No	
Document Name		
Comment		
ATC appreciates the additional clarity added to the relationship between R3 and R4. ATC supports the MRO NSRF comments.		
Likes 0		
Dislikes 0		
Response		
Kevin Conway - Western Power Pool - 4		
Answer	No	
Document Name		
Comment		
"other designated study entities" is unclear. R5 Risk factor should be Medium to match TPL 001-5. Concern that level of coordination needed to effect the standard will be significant, particularly for "smaller" entities.		
Likes 0		
Dislikes 0		
Dislikes 0 Response		
Response	No	
Response Richard Vendetti - NextEra Energy - 5	No	
Response Richard Vendetti - NextEra Energy - 5 Answer	No No	

EEI does not have concerns with the updated proposed Requirements for R4 and R5, however, Requirement R3 does not provide sufficient clarity for the processes or expectations for coordination between adjacent Planning Coordinators and Transmission Planners, including the deadlines for the

1 Processes for requesting seasonal and temperature dependent adjustments for Load, generation, Transmission, and transfi adjacent entity's area based on the extreme temperature conditions identified in Requirement R2 that obligate the adjacent PC cond within 6 months of the request. 2 Obligation to respond to notify any affected Planning Coordinators and Transmission Planners of any concerns within 120 eipt of the data supplied. 3 An additional 60 shall also be allotted to the responsible Planning Coordinator to resolve any issues or concerns cited by the coordinator or Transmission Planner. 4 Solutions 1 (1) Processes 1 (2) Planning Coordinator to resolve any issues or concerns cited by the coordinator or Transmission Planner.	& TP to	
adjacent entity's area based on the extreme temperature conditions identified in Requirement R2 that obligate the adjacent PC cond within 6 months of the request. 2 Obligation to respond to notify any affected Planning Coordinators and Transmission Planners of any concerns within 120 cipt of the data supplied. 3 An additional 60 shall also be allotted to the responsible Planning Coordinator to resolve any issues or concerns cited by the coordinator or Transmission Planner. 8 0 8 0	& TP to	
adjacent entity's area based on the extreme temperature conditions identified in Requirement R2 that obligate the adjacent PC cond within 6 months of the request. 2 Obligation to respond to notify any affected Planning Coordinators and Transmission Planners of any concerns within 120 cipt of the data supplied. 3 An additional 60 shall also be allotted to the responsible Planning Coordinator to resolve any issues or concerns cited by the coordinator or Transmission Planner. 8 0 8 0	& TP to	
adjacent entity's area based on the extreme temperature conditions identified in Requirement R2 that obligate the adjacent PC cond within 6 months of the request. 2 Obligation to respond to notify any affected Planning Coordinators and Transmission Planners of any concerns within 120 eipt of the data supplied. 3 An additional 60 shall also be allotted to the responsible Planning Coordinator to resolve any issues or concerns cited by the transmission Planner.	& TP to	
adjacent entity's area based on the extreme temperature conditions identified in Requirement R2 that obligate the adjacent PC cond within 6 months of the request. 2 Obligation to respond to notify any affected Planning Coordinators and Transmission Planners of any concerns within 120 eipt of the data supplied. 3 An additional 60 shall also be allotted to the responsible Planning Coordinator to resolve any issues or concerns cited by the temperature of the coordinator or Transmission Planner.	& TP to	
adjacent entity's area based on the extreme temperature conditions identified in Requirement R2 that obligate the adjacent PC cond within 6 months of the request. Obligation to respond to notify any affected Planning Coordinators and Transmission Planners of any concerns within 120 eipt of the data supplied. An additional 60 shall also be allotted to the responsible Planning Coordinator to resolve any issues or concerns cited by the second content of the content of	& TP to	
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adjacent entity's area based on the extreme temperature conditions identified in Requirement R2 that obligate the adjacent PC bond within 6 months of the request. 2 Obligation to respond to notify any affected Planning Coordinators and Transmission Planners of any concerns within 120	& TP to	
adjacent entity's area based on the extreme temperature conditions identified in Requirement R2 that obligate the adjacent PC		
3.2.1 Processes for requesting seasonal and temperature dependent adjustments for Load, generation, Transmission, and transfers from		
Seasonal and temperature dependent adjustments for Load, generation, Transmission, and transfers in the responsibility enti- ed on the extreme temperature conditions identified in Requirement R2.	ty's area	
Each Planning Coordinator shall develop and implement a process for developing coordinating the development of benchmark pes, using the selected benchmark temperature events identified in Requirement R2. The process shall include:, among adjacent imming Coordinator(s). Transmission Planner(s), and other designated study entities, within an Interconnection. This process slasonal and temperature dependent adjustments for Load, generation, Transmission, and transfers to represent the selected between perature events. [Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]	pacted all includ	

Answer	No	
Document Name		
Comment		
	on of 'among adjacent' as well as the clarification of what impacts will be considered in the development of the expectations of coordination need further definition along with clarifying the timeline of coordination with causing compliance risk.	
Likes 0		
Dislikes 0		
Response		
Helen Lainis - Independent Electricity Sy	vstem Operator - 2	
Answer	No	
Document Name		
Comment		
We support NPCC TFCP comments. We are concerned that the coordination effort required for consistent, wide-area cases negates the benefit of choosing a unique benchmark event. Specifically, we are concerned regarding the number of studies which must be performed, particularly when a Planning Coordinator (PC) selects a benchmark temperature event that is different from that of its adjacent PC(s). In that situation, each benchmark temperature event may necessitate a significant coordination effort, similar to what is done to develop the MMWG base case for the Eastern Interconnection. It does not seem feasible to develop consistent, wide-area cases when each PC can select unique events.		
	C/Regional Entities/ERAG to identify the scenarios, and the extreme heat and extreme cold t no planning entity is assigned more than one of each.	
Likes 0		
Dislikes 0		
Response		
Devin Shines - PPL - Louisville Gas and	Electric Co 1,3,5,6 - SERC,RF	
Answer	No	
Document Name		
Comment		

Regarding Requirement R3, the DT has made improvements in this Requirement, but the language still fails to provide the flexibility necessary for a responsible entity to get the required cases built in a timely and practical manner. There are two primary issues for which we provide recommendations to provide more flexibility.

First, there is no specification or bounds on the type of data that represents the benchmark event. Is it a single temperature for the adjacent entity's entire region? Is it sub-zip-code level temperature data? Again, the DT must include more specifics in the standard about the framework and criteria of benchmark temperature events.

Second, there is no flexibility to make technically justified assumptions. These will be necessary for this process to be completed effectively. Consider a case with a local cold front. The responsible entity and all adjacent entities are experiencing increased load and potentially some lost generation. Thus, they have a collective power deficit. How is this model going to solve? The power must be imported from somewhere. The DT should solve these issues by allowing the responsible entity to make technically justified assumptions for non-adjacent areas. To continue the example above, if the entity is in the northeast United States, it may reasonably assume power will be imported from the southern United States. It is not necessary to coordinate with all entities to determine what imports will be available. As noted above, the impact of adjusting specific assets is diluted relative to electrical distance.

The two issues above would be appropriately addressed in the Requirement R2 and R3 proposed in the last question. Requirement R3 is repeated here:

- R3. Each responsible entity, as identified in Requirement R1, shall develop a process for developing benchmark planning cases to represent the benchmark temperature events selected in Requirement R2. The process shall include:
- 3.1. Seasonal and temperature dependent adjustments for Load, generation, Transmission, and transfers in the responsibility entity's area based on the temperature conditions identified in Requirement R2 Part 2.2.
- 3.2. Coordination with adjacent Planning Coordinators and Transmission Planners to make seasonal and temperature dependent adjustments for Load, generation, Transmission, and transfers and in their areas based on the temperature conditions identified in Requirement R2 Part 2.3.
- 3.3. Technical rationale and methods for approximating seasonal and temperature dependent adjustments for Load, generation, Transmission, and transfers in other areas of the Interconnection.

Finally, it is not clear who "other designated study entities" are. This should be removed or clarified by the DT (this phrase was removed in the suggested language above).

Regarding Requirement R4, this format is improved from the first draft. However, it is recommended that the DT clarify in Part 4.2 that only one sensitivity case is required for each benchmark temperature event. Suggested modification to the first sentence: "At least one s[S]ensitivity case[s] for each benchmark planning case developed in Requirement R4 Part 4.1 to demonstrate the impact..."

The DT should also add a requirement specifying how much time adjacent entities have to submit data to a requestor. Suppose an entity starts its Extreme Temperature Assessment six months before its due date. They request data from a neighbor and the neighbor does not provide the requested data until 9 months later. Is the responsible entity to blame for not providing enough time? Or did the adjacent entity take too long?

Likes 0	
Dislikes 0	
Response	
Michele Tondalo - United Illuminating Co 1	
Answer	No
Document Name	

Comment	
In R3 it is not clear what this coordination be events expected to reconcile differences?	etween PCs is expected to result in, in particular how are adjacent regions that select different extreme
In R4.1, it is unclear what is establishing Ca	ategory P0 as the normal System Condition in Table 1.
Likes 0	
Dislikes 0	
Response	
	Laura Somak, Salt River Project, 3, 6, 5, 1; Mathew Weber, Salt River Project, 3, 6, 5, 1; Thomas mothy Singh, Salt River Project, 3, 6, 5, 1; - Israel Perez
Answer	No
Document Name	
Comment	
Define Table 1 for requirement 4.1. Recom	mend clarifying on case selection for requirement R4.
Likes 0	
Dislikes 0	
Response	
Danielle Moskop - Danielle Moskop On E	Behalf of: David Jendras Sr, Ameren - Ameren Services, 3, 6, 1; - Danielle Moskop
Answer	No
Document Name	
Comment	
Ameren would like clarity on why R4.2 does	s not include Transmission. In addition, Ameren agrees with and supports EEI's comments.
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA	A - Not Applicable - NA - Not Applicable
Answer	No
Document Name	

Comment		
the processes or expectations for coordinati	ed proposed Requirements for R4 and R5, however, Requirement R3 does not provide sufficient clarity for on between adjacent Planning Coordinators and Transmission Planners, including the deadlines for the ments by adjacent PCs and TPs. To address our concerns, we offer the following in boldface for	
	velop and implement a process for developing benchmark planning cases, using the selected benchmark nt R2. The process shall include: [Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]	
3.1. Seasonal and temperature depender based on the extreme temperature condi	nt adjustments for Load, generation, Transmission, and transfers in the responsibility entity's area tions identified in Requirement R2.	
	I and temperature dependent adjustments for Load, generation, Transmission, and transfers from xtreme temperature conditions identified in Requirement R2 that obligate the adjacent PC & TP to	
3.2.2 Obligation to respond to notify any receipt of the data supplied.	y affected Planning Coordinators and Transmission Planners of any concerns within 120 days of	
3.2.3 An additional 60 shall also be allotted to the responsible Planning Coordinator to resolve any issues or concerns cited by the adjacent Planning Coordinator or Transmission Planner.		
Likes 0		
Dislikes 0		
Response		
Selene Willis - Edison International - Sou	thern California Edison Company - 5	
Answer	No	
Document Name		
Comment		
Please see comments from EEI		
Likes 0		
Dislikes 0		
Response		
Steven Rueckert - Western Electricity Co	ordinating Council - 10, Group Name WECC	
Answer	No	
Document Name		

Comment		
	l out which year of "one of the years in the Long-Term Transmission Planning Horizon" is to be used? Or is zon a coordinated effort? Or does each TP and PC select their own year (which would likely lead to possible	
Likes 0		
Dislikes 0		
Response		
Hillary Creurer - Allete - Minnesota Power	er, Inc 1	
Answer	No	
Document Name		
Comment		
Minnesota Power supports MRO's NERC S	Standards Review Forum's (NSRF) comments.	
Likes 0		
Dislikes 0		
Response		
Greg Sorenson - Greg Sorenson On Beh	alf of: Tyler Schwendiman, ReliabilityFirst , 10; - Greg Sorenson	
Answer	No	
Document Name		
Comment		
R4, states that the sensitivity analysis shall include, at a minimum, changes to one of the following conditions: Generation; Real and reactive forecasted Load; or Transfers. RF believes that the assessment should consider all of the listed conditions as opposed to only one. In the Feb 2021 Southwest event, the load was higher and the generation lower than expected(https://www.ercot.com/news/february2021). Likewise, in the Dec 2022 Elliott event PJM load was significantly higher (10,000MW) while generation outages were significantly above baseline (https://www.pjm.com/-/media/library/reports-notices/special-reports/2023/20230717-winter-storm-elliott-event-analysis-and-recommendation-report.ashx).		
Likes 0		
Dislikes 0		
Response		
Donna Wood - Tri-State G and T Associa	ntion, Inc 1	
Answer	No	

Document Name	
Comment	
Tri-State supports the comments submitted	by the MRO NSRF.
Likes 0	
Dislikes 0	
Response	
Michele Shafer - New York State Electric	: & Gas (NYSEG) - 6
Answer	No
Document Name	
Comment	
In R4.1, it is unclear what is establishing Ca	ategory P0 as the normal System Condition in Table 1.
Likes 0	
Dislikes 0	
Response	
Rebika Yitna - Rebika Yitna On Behalf of	: David Weekley, MEAG Power, 3, 1; Roger Brand, MEAG Power, 3, 1; - Rebika Yitna
Answer	No
Document Name	
Comment	
The "other designated study entities" menti	oned in R3 need to be defined. The phrase "other designated study entities" is unclear.
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Shannon Mickens O	n Behalf of: Joshua Phillips, Southwest Power Pool, Inc. (RTO), 2; - Shannon Mickens, Group Name
Answer	No
Document Name	
Comment	

SPP raises concerns regarding the coordination among neighboring entities impacted by Requirement R3. We understand that this coordination extends to all Planning Coordinators, including those outside the event area, potentially leading to unnecessary administrative burdens. Moreover, there is the concern of including/translating the seasonal and temperature dependent adjustments in the models. As we state in the previous question, there is no guidance on how to accomplish this goal of developing this type of models as well as conducting an assessment to produce quality results. SPP recommends the drafting team takes into consideration coordinating with the NERC RSTC and their liaisons to help develop a guideline that will address uncharted territory applicable to the neighbor coordinating and model building process. Regarding Requirement R4 and the use of the MOD-032 Standard for data collection, SPP questions its suitability for assessing Inverter-Based, Distributed Energy, and Energy Storage Resources, given unresolved project directives. At this point, SPP recommends that the drafting team coordinates with the drafting team Project 2022-02 (which includes MOD-032 efforts). This coordination will ensure that the appropriate data request requirements are addressed as this will contribute the quality results from all associated assessments. Likes 0 Dislikes 0 Response Kinte Whitehead - Exelon - 3 Answer No **Document Name** Comment There is nothing in the standard enforcing that PCs and TPs need to coordinate and share data between themselves to build the cases in R4. This may need to be a stand-alone requirement. "Each responsible entity shall coordinate and cooperate with other responsible entities to create the benchmark planning Cases." R3 – The last sentence needs clarification. Propose to change it to "This process shall include documentation of assumptions that consider seasonal and temperature dependent adjustments for Load, generation, Transmission, and transfers to represent the selected benchmark temperature events." R4 – No concerns from Exelon. R5 – No concerns from Exelon. Additionally, Exelon supports the comments submitted by the EEI for this question. Likes 0 Dislikes 0 Response Stephen Stafford - Stephen Stafford On Behalf of: Greg Davis, Georgia Transmission Corporation, 1; - Stephen Stafford

nswer	No
Occument Name	
Comment	
 supplemental wording edits in the reference of the inclusion of "other designated in the SDT should consider combinine. Requiring each PC to coordinate the is potentially a massive amount of with the PC or TP to have responsibility. The SDT should consider combining. The recently adopted NERC Glossa "System steady state voltage limits." Assessment" Since this requirement appears to reshould be removed. The resultant sexample, if a low voltage criterion is beginning voltage was 0.95 p.u., 0.9 The inclusion of Facility Ratings in the is modeling so much of its wording be similarly referenced in this stand 	g this requirement with R4. e development of benchmark planning cases among "adjacent impacted" entities "within an Interconnection" workload as benchmark events may be significantly different between these entities. It is not reasonable for for coordinating models outside of their respective planning areas. g this requirement with R3. gry term, System Voltage Limits, should be referenced in this requirement instead of the outdated wording ". "shall have criteria for acceptable System Voltage Limits for performing the Extreme Temperature effer to steady-state voltage, the post contingency voltage deviation portion of the existing requirement steady-state voltage level being outside of acceptable high and low limits is the point of concern. For s 0.92 p.u., then voltages below this limit would violate this particular criterion regardless of whether the
ikes 0	
vislikes 0	
Response	
onstantin Chitescu - Ontario Power Ge	neration Inc 5
nswer	No
ocument Name	
Comment	

OPG supports NPCC Regional Standards Committee's comments:

We are concerned that the R3-R4 requirements may necessitate a significant coordination effort by each PC like the MMWG base case development for the Eastern Interconnection for each of the extreme weather events. Was this the intent of R3-R4? If so, it does not seem feasible to develop

	can select unique events. We note that R4.1 gives the freedom for individual adjacent entities to choose a choo
Likes 0	
Dislikes 0	
Response	
Keith Jonassen - Keith Jonassen On Bel	nalf of: John Pearson, ISO New England, Inc., 2; - Keith Jonassen
Answer	No
Document Name	
Comment	
example, the Benchmark Event Example of the ISO-NE area; However, PJM as the PC NYISO which is adjacent to both ISO-NE ar study Polar Vortex in 2014? Or, are we required to agree on a singular of from studying the 1998 Ice Storm and ISO-Imultiple Benchmark Events. In addition to p	Cs could cause a burden on PCs if their neighbors choose to study a different Benchmark Event. For Winter Storm Elliot would not be an event ISO-NE would choose as it did not have a significant impact on may choose to study it. If ISO-NE chooses the January 1998 Ice Storm, what effect would that have on and PJM? Do they now have to coordinate with both for the separate studies? What if NYISO chooses to event to be studied? A line would need to be drawn somewhere. As in the case above, PJM wouldn't benefit NE wouldn't benefit from studying Winter Storm Elliot. If so, some PCs may need to create model data for cossibly having to address multiple Events, some PCs may choose a different year (Year 6 through Year 10) ich further increases the burden associated with coordinating studies between the PCs.
Dislikes 0	
Response	
Ben Hammer - Western Area Power Adm	inistration - 1
Answer	No
Document Name	
Comment	
WAPA has concerns regarding the number	of studies which must be performed, particularly when a Planning Coordinator (PC) selects a benchmark

WAPA has concerns regarding the number of studies which must be performed, particularly when a Planning Coordinator (PC) selects a benchmark temperature event that is different from that of its adjacent PC(s). In that situation, each benchmark temperature event may necessitate a significant coordination effort.

WAPA recommends a governing body identify the scenarios. Extreme temperature events will typically extend beyond the footprint of a single Planning Coordinator. To avoid putting the PCs in a position where they are required to agree on a scenario, a year and the sensitivity to be studied, NERC or other (e.g. ERAG) should identify the extreme heat and extreme cold temperature events to be studied. This is necessary for consistent modeling results across adjacent planning entities. Also, as a benchmark temperature event may extend across several planning areas, the governing body must

take this into consideration when determining assigned more than one of each.	ng which extreme heat and extreme cold temperature events are to be studied so that no planning entity is	
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		
	includes the ability for both the TP and PCs to be able to obtain the information necessary from generators? perform a sensitivity study. ITC does believe the scope of work required for the sensitivity study should be that it does provide a reliability benefit.	
Likes 0		
Dislikes 0		
Response		
Diana Aguas - CenterPoint Energy Hous	ton Electric, LLC - 1 - Texas RE	
Answer	No	
Document Name		
Comment		
CEHE agrees with EEI comments, requirement R3 does not provide sufficient clarity for the processes or expectations for coordination between adjacent Planning Coordinators and Transmission Planners, including the deadlines for the review of the Extreme Temperature Assessments by adjacent PCs and TPs.		
Likes 0		
Dislikes 0		
Response		
Bobbi Welch - Midcontinent ISO, Inc 2,	Group Name ISO/RTO Council Standards Review Committee (SRC) Project 2023-07 TPL-008-1 Draft #2	
Answer	No	
Document Name		
Comment		

The SRC's most significant concerns involve requirement R3 as detailed below.		
The Coordination Effort Required for Consistent, Wide-Area Cases Negates the Benefit of Choosing a Unique Benchmark Event		
R3. The SRC agrees the proposed language, "among adjacent impacted Planning Coordinator(s), Transmission Planner(s), and other designated study entities, within an Interconnection" is an improvement over the prior language because it clarifies how far an entity must reach beyond its footprint to satisfy the requirement.		
That said, the SRC still has significant concerns regarding the number of studies that must be performed, particularly when a Planning Coordinator (PC selects a benchmark temperature event that is different from that of its adjacent PC(s). In that situation, each benchmark temperature event may necessitate a significant coordination effort, similar to what is done to develop the MMWG base case for the Eastern Interconnection.		
If that's the case, it doesn't seem feasible to develop consistent, wide-area cases when each PC can select unique events. We also note that R4.1 gives each entity the freedom to choose a different year for the long-term horizon, which could further exacerbate the number of cases that must be developed to comply with the coordination process under R3.		
To address this concern, the SRC recommends a neutral third party identify the scenarios for Interconnections with more than one PC. Extreme temperature events in such Interconnections will typically extend beyond the footprint of a single Planning Coordinator. To avoid putting the PCs in a position where they are required to agree on a scenario, a year and the sensitivity to be studied, NERC or some other entity (e.g. Eastern Interconnection Reliability Assessment Group, ERAG) should identify the extreme heat and extreme cold temperature events to be studied. This is necessary to ensure consistent modeling results across adjacent planning entities within an Interconnection. Also, as a benchmark temperature event may extend across several planning areas, the neutral third party must take this into consideration when determining which extreme heat and extreme cold temperature events are to be studied so that no planning entity is assigned more than one of each.		
R4. SRC supports the proposed language ("data consistent with that provided in accordance with the MOD-032 standard") and does not see a need to update MOD-032 at this time; however, depending upon what data the benchmark temperature event requires to perform the study, this may need to be revisited.		
	licable Facility Ratings " considering the need to comply with FERC Order 881 and Ambient Adjusted re also exploring this further with their member TOs.	
Likes 0		
Dislikes 0		
Response		
Bob Cardle - Bob Cardle On Behalf of: Marco Rios, Pacific Gas and Electric Company, 3, 1, 5; Sandra Ellis, Pacific Gas and Electric Company, 3, 1, 5; Tyler Brun, Pacific Gas and Electric Company, 3, 1, 5; - Bob Cardle		
Answer	No	
Document Name		
Comment		
PGAE agrees with R5 and R6 but does not agree with R4. Extreme Temperature Events are already a "sensitivity" to normal long-term planning cases and are be built with Gen/Load/Transfer based on the extreme weather conditions of an entity's territory. Additional, mandatory "sensitivity cases" seems redundant in nature.		

Likes 0

Dislikes 0		
Response		
Kennedy Meier - Electric Reliability Coun	cil of Texas, Inc 2	
Answer	No	
Document Name		
Comment		
ERCOT joins the comments submitted by the IRC SRC and adopts them as its own.		
In addition, ERCOT is concerned that Requirement R4, Part 4.1 unnecessarily and inadvertently limits the ability of entities to properly develop their benchmark planning cases. Specifically, ERCOT is concerned that Part 4.1 could be understood to mean that entities are limited to making the adjustments specifically described in Part 4.1 and are prevented from making adjustments necessary to update the planning cases to reflect the expected future state of the system or to ensure that the generation necessary to serve load is available so that the case can solve. Adjusting the case to ensure that it contains enough generation to serve the modeled load is essential to ensure that the standard does not address resource adequacy issues and fully complies with paragraph 94 of FERC Order No. 896, which states that resource adequacy is not in scope for this project.		
ERCOT is also concerned that Part 4.1 could be understood to require entities to model facility derates and outages that were actually observed during the selected benchmark temperature event rather than requiring entities to model impacts of the temperatures observed during that event on the system as it is expected to exist in the year being evaluated. To address these concerns, ERCOT recommends that Part 4.1 be revised to read as follows:		
4.1 Benchmark planning cases that <i>reflect the expected future state of the System and</i> include seasonal and temperature dependent adjustments for Load, generation, Transmission, and transfers <i>based on the weather</i> conditions <i>described in</i> the selected benchmark temperature events as identified in Requirement R2 for one of the years in the Long-Term Transmission Planning Horizon. <i>The responsible entity may adjust the total modeled generation or Load in each case as necessary to allow the total modeled generation to serve the total modeled System Load.</i> The rationale for the year selected for evaluation shall be available as supporting information. This establishes Category P0 as the normal System condition in Table 1.		
ERCOT also recommends that Requirement R3 be revised as needed to align with any revisions made to Requirement R4.		
Likes 0		
Dislikes 0		
Response		
Elizabeth Davis - Elizabeth Davis On Beh	alf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis	
Answer	No	
Document Name		

Comment	
PJM supports the IRC SRC comments.	
Likes 0	
Dislikes 0	
Response	
Robert Blackney - Edison International -	Southern California Edison Company - 1
Answer	No
Document Name	
Comment	
See comments submitted by Edison Electric	c Institute
Likes 0	
Dislikes 0	
Response	
John Brewer - National Energy Technolo	gy Laboratory - 9 - NA - Not Applicable
Answer	No
Document Name	
Comment	
(R3) It is unclear who the "other designated stu	dy entities" are and who defines them.
(R3) R2 Requirement allows each responsible e if different Planning Coordinators within the sa	ntity to select different benchmark temperature event(s). R3 should be revised to clarify how conflicts will be resolved me Interconnection select different events.
transmission outages due to extreme heat and the risk of correlated or concurrent outages and	"NERC to require under the new or revised Reliability Standard the study of concurrent/correlated generator and cold events in benchmark events," explaining in paragraph 89 that "it is necessary that responsible entities evaluate d derates of all types of generation resources and transmission facilities as a result of extreme heat and cold events." ses that include seasonal and temperature dependent adjustments for Load, generation, Transmission, and transfers determined transmission outages."

	the years in the Long-Term Transmission Planning Horizon" will burden each responsible entity with developing in the adjacent responsible entity selected if they do not select the same year.
	of only one condition, R4.2 should be revised to (1) provide a ranking of what conditions should be selected first, or ity should follow for the sensitivity analysis with the three listed conditions, or (3) requires all conditions to be
(R5) No issue.	
Likes 0	
Dislikes 0	
Response	
Usama Tahir - Seminole Electric Cooper	ative, Inc 3
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Eric Sutlief - CMS Energy - Consumers E	inergy Company - 3,4,5 - RF
Answer	Yes
Document Name	
Comment	
M4 should state "Each responsible entity, a	s identified in Requirement R1," to remain consistent with other Measures
Likes 0	
Dislikes 0	
Response	
Gary Trezza - Long Island Power Author	ity - 1 - NPCC

Yes	
acceptable System steady state voltage limits, post-Contingency voltage deviations, and applicable Facility	
ave (and document) applicable thermal criteria for completing the Extreme Temperature Assessment? For E facility ratings post-contingency?	
ratings have been established, but that is not necessarily the case in all jurisdictions. Will facility owners be emperature ratings for this standard?	
ERC,RF	
Yes	
out requires clarification of the phrase "other designated study entities".	
Daniela Atanasovski - APS - Arizona Public Service Co 1	
Yes	
Comment	

AZPS generally supports the updates made by the STD to R3 – R5. AZPS also supports the comments that were submitted by EEI on behalf of its members that R3 does not provide sufficient clarity for the processes or expectations for coordination between adjacent Planning Coordinators and

Transmission Planners, including the deadlines for the review of the Extreme Temperature Assessments by adjacent PCs and TPs. Please see EEI comments regarding recommended changes to the requirement.		
Likes 0		
Dislikes 0		
Response		
Apollonia Gonzales - PNM Resources - P	Public Service Company of New Mexico - 1,3,5 - WECC	
Answer	Yes	
Document Name		
Comment		
R3 and R4.4 should include facility ratings sappropriate for the extreme weather assess	since FERC Order 881 establish AAR. Seasonal rating typically used in planning studies would not be ement.	
include seasonal and temperature dependent adjustment for Load, generation, Transmission, facility ratings, and transformers		
The SDT should consider making the defini	tion of Extreme Temperature Assessment align better with the definition of Planning Assessment.	
Likes 0		
Dislikes 0		
Response		
Srikanth Chennupati - Entergy - Entergy	Services, Inc 1,3,5,6 - SERC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Sean Bodkin - Dominion - Dominion Res	ources, Inc 6, Group Name Dominion	
Answer	Yes	

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Barbara Marion - Dominion - Dominion R	Resources, Inc 5, Group Name Dominion
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Robert Follini - Avista - Avista Corporati	on - 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Chris Wagner - Santee Cooper - 1, Group	Name Santee Cooper
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Mike Magruder - Avista - Avista Corpora	tion - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Teresa Krabe - Lower Colorado River Au	uthority - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Carver Powers - Utility Services, Inc 4	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Matt Lewis - Lower Colorado River Auth	
Answer	Yes
Document Name	

Comment		
Likes 0		
Dislikes 0		
Response		
Rachel Coyne - Texas Reliability Entity, Inc 10		
Answer		
Document Name		

Texas RE has the following recommendations for Requirement R3:

Comment

- Provide clarification around "adjacent impacted Planning Coordinators, Transmission Planners, and other designated study entities". If the Planning Coordinator (PC) determines an adjacent PC or Transmission Planner (TP) is not impacted, justification should be provided.
- The goal for Requirement R3, is for the PC to have a process which describes the methodology used to define temperature dependent adjustments to the overall load, generation, transmission ratings, and transfers to match the benchmark temperature level compared to the seasonal ratings in order for consistent temperature dependent adjustments to be utilized by all the impacted entities within the interconnection. Texas RE recommends the following revision to Requirement R3 (in bold):

R3. Each Planning Coordinator shall develop and implement a process for coordinating the development of benchmark planning cases, using the selected benchmark temperature events identified in Requirement R2, among adjacent impacted Planning Coordinator(s), Transmission Planner(s), and other designated study entities, within an Interconnection. This process shall include the methodologies used to generate seasonal and the temperature dependent adjustments for the data inputs such as Load, generation, Transmission, and transfers to represent the selected benchmark temperature events.

Texas RE has the following recommendations for Requirement R4:

- Requirements R3 and R4 are currently written in such a way that if an entity fails to meet one of the standards, it will fail to meet the other one. Texas RE recommends bifurcating both requirements so R3 focuses on developing a process for coordination the development of benchmark cases, and R4 focuses on implementing the process in Requirement R3 for coordinating the development of the benchmark case. The term "implement" rather than the term "use" is consistent with other NERC Reliability Standards. Texas RE recommends the following verbiage:
- R3. Each Planning Coordinator **shall develop** a process for coordinating the development of benchmark planning cases, using the selected benchmark temperature events...
- R4. Each responsible entity, as identified in Requirement R1, shall **implement** the coordination process developed in accordance with Requirement R3...
 - Texas RE is concerned that Requirement R4 states the selected benchmark temperature events should be for one of the years in the Long-Term Transmission Planning Horizon. Given the number of variables, the Transmission System could be significantly different 6-10 years in the future. Texas RE recommends selecting benchmark events for the Near-Term Planning Horizon as there are more known variables.

generation" This could create so	mark planning cases that include seasonal and temperature dependent adjustments for Load, me confusion whether a seasonal base case should be developed first and then make the temperature a points listed. Texas RE recommends removing the word 'seasonal' from this requirement.	
System conditions of the selected benchma	e temperature dependent adjustments for Load, generation, Transmission, and transfers to represent the lirk temperature events as identified in Requirement R2 for one of the years in the Long-Term Transmission selected for evaluation shall be available as supporting information. This establishes Category P0 as the	
For consistency with other Requirement language, Texas RE recommends the following revision for Requirement R5 (in bold):		
	Requirement R1, shall define and document the criteria for acceptable System steady state voltage limits, pplicable Facility Ratings for evaluating the Extreme Temperature Assessment results.	
Likes 0		
Dislikes 0		
Response		

4. The DT updated Requirements R6 – R8 based on comments received. Do you agree with the updated proposed TPL-008-1 Reliability Standard Requirements R6-R8? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

Long Island Power Authority	
Answer	No
Document Name	(if an attachment is provided by submitter)

Comment

Requirement # 7 states:

"Each responsible entity, as identified in Requirement R1, shall identify the planning events for each category in Table 1 that are expected to produce more severe System impacts on its portion of the Bulk Electric System. The rationale for those Contingencies selected for evaluation shall be available as supporting information."

We observe that the above language is slightly different from TPL-001-5.1 Req # 3.4, which states:

"Those planning events in Table 1 that are expected to produce more severe System impacts on its portion of the BES shall be identified, and a list of those Contingencies to be evaluated for System performance in Requirement R3, Part 3.1 created. The rationale for those Contingencies selected for evaluation shall be available as supporting information."

In summary, we observe that TPL-008-1 Req #7 requires the identification of planning events for each category in Table 1 (i.e., P0, P1, P2, P4, P7), while TPL-001-5.1 Req #3.4 does not explicitly require the identification of planning events for each category in Table 1.

We are not certain if this distinction (added burden for TPL-008-1 as compared to TPL-001-5.1) was intended by the SDT, as so we wanted to point this out.

We would also like the SDT to clarify if the intent is that the entity must identify contingencies for each "Category" (P2 for example) AND each "Event" (P2.1 for example). Without clarification, this requirement could be interpreted differently by auditors.

Likes 0	# of other submitters who agree with these comments
Dislikes 0	# of other submitters who disagree with these comments

Response

(Drafting team's response to submitter's comments)

John Brewer - National Energy Technolo	gy Laboratory - 9 - NA - Not Applicable
Answer	No
Document Name	
Comment	
(R6) No issue.	
(R7) No issue.	
	stability analysis using the identified contingencies from R7 should be included in every 8.1 (the benchmark planning ent R4 Part 4.1.) and 8.2 (the sensitivity cases developed in accordance with Requirement R4 Part 4.2.) analysis.
	pecifies the minimum number of assessments (a minimum of one benchmark planning case analysis for extreme cold, m of one sensitivity study case for one condition for extreme cold, and a minimum of one sensitivity study case for one ing this in 4.1. and 4.2.
Likes 0	
Dislikes 0	
Response	
Apollonia Gonzales - PNM Resources - F	Public Service Company of New Mexico - 1,3,5 - WECC
Answer	No
Document Name	
Comment	
PNM agrees with EEI's comments and feed	back for this question.
Likes 0	
Dislikes 0	
Response	
Robert Blackney - Edison International -	Southern California Edison Company - 1
Answer	No
Document Name	
Comment	

See comments submitted by Edison Electric	c Institute
Likes 0	
Dislikes 0	
Response	
Elizabeth Davis - Elizabeth Davis On Bel	nalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis
Answer	No
Document Name	
Comment	
PJM supports the IRC SRC comments.	
Likes 0	
Dislikes 0	
Response	
Kennedy Meier - Electric Reliability Cour	ncil of Texas, Inc 2
Answer	No
Document Name	
Comment	
ERCOT joins the comments submitted by the	ne IRC SRC and adopts them as its own.
Likes 0	
Dislikes 0	
Response	
Bob Cardle - Bob Cardle On Behalf of: M 3, 1, 5; Tyler Brun, Pacific Gas and Elect	arco Rios, Pacific Gas and Electric Company, 3, 1, 5; Sandra Ellis, Pacific Gas and Electric Company, ric Company, 3, 1, 5; - Bob Cardle
Answer	No
Document Name	
Comment	

Likes 0 Dislikes 0 Response Bobbi Welch - Midcontinent ISO, Inc 2, Group Name ISO/RTO Council Standards Review Committee (SRC) Project 2023-07 TPL-008-1 Draft #2 Answer No Document Name Comment The SRC supports some of the revisions and proposes modifications to others as detailed below. R6 needs better wording to indicate instability, uncontrolled separation and cascading must all be monitored for. The "or" makes it seem like only one of the three must be addressed. R7. SRC supports the SDT's decision to modify the language from "Contingencies" to "planning events," however, we believe a similar change should be made to the second reference to "Contingencies" later in the paragraph (see sentence 2). SRC proposes the edit below. R7. Each responsible entity, as identified in Requirement R1, shall identify the planning events for each category in Table 1 that are expected to produce more severe System impacts on its portion of the Bulk Electric System. The rationale for those planning events selected for evaluation shall be available as supporting information. Likes 0 Dislikes 0 Response Usama Tahir - Seminole Electric Cooperative, Inc 3 Answer No Document Name Comment Seminole would like a longer implementation timeline for R7 of 72 months to determine which planning events produce more severe planning events. Likes 0 Dislikes 0 Response	PGAE has no comment on R6 or R7, howe reference to R4.	ver, we disagree with the proposed R8. See above comments for Question 3 related to R4, as R8 is in	
Response Bobbi Welch - Midcontinent ISO, Inc 2, Group Name ISO/RTO Council Standards Review Committee (SRC) Project 2023-07 TPL-008-1 Draft #2 Answer No Document Name Comment The SRC supports some of the revisions and proposes modifications to others as detailed below. R6 needs better wording to indicate instability, uncontrolled separation and cascading must all be monitored for. The "or" makes it seem like only one of the three must be addressed. R7. SRC supports the SDT's decision to modify the language from "Contingencies" to "planning events:" however, we believe a similar change should be made to the second reference to "Contingencies" later in the paragraph (see sentence 2). SRC proposes the edit below. R7. Each responsible entity, as identified in Requirement R1, shall identify the planning events for each category in Table 1 that are expected to produce more severe System impacts on its portion of the Bulk Electric System. The rationale for those planning events selected for evaluation shall be available as supporting information. Likes 0 Dislikes 0 Response Usama Tahir - Seminole Electric Cooperative, Inc 3 Answer No Document Name Comment Seminole would like a longer implementation timeline for R7 of 72 months to determine which planning events produce more severe planning events. Likes 0 Dislikes 0	Likes 0		
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Usama Tahir - Seminole Electric Cooperative, Inc 3 Answer No Document Name Comment Seminole would like a longer implementation timeline for R7 of 72 months to determine which planning events produce more severe planning events. Likes 0 Dislikes 0	Likes 0		
Usama Tahir - Seminole Electric Cooperative, Inc 3 Answer No Document Name Comment Seminole would like a longer implementation timeline for R7 of 72 months to determine which planning events produce more severe planning events. Likes 0 Dislikes 0	Dislikes 0		
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Answer Document Name Comment Seminole would like a longer implementation timeline for R7 of 72 months to determine which planning events produce more severe planning events. Likes 0 Dislikes 0			
Document Name Comment Seminole would like a longer implementation timeline for R7 of 72 months to determine which planning events produce more severe planning events. Likes 0 Dislikes 0	Usama Tahir - Seminole Electric Cooper	ative, Inc 3	
Comment Seminole would like a longer implementation timeline for R7 of 72 months to determine which planning events produce more severe planning events. Likes 0 Dislikes 0	Answer	No	
Seminole would like a longer implementation timeline for R7 of 72 months to determine which planning events produce more severe planning events. Likes 0 Dislikes 0	Document Name		
Likes 0 Dislikes 0	Comment		
Dislikes 0	Seminole would like a longer implementation	on timeline for R7 of 72 months to determine which planning events produce more severe planning events.	
	Likes 0		
Response	Dislikes 0		
	Response		

Diana Aguas - CenterPoint Energy Hous	ton Electric, LLC - 1 - Texas RE
Answer	No
Document Name	
Comment	
Please refer to Question 1 comments.	
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	
should be used to describe the benchmark The DT needs to identify which system this being applicable to the Bulk Power System	ning event and believes that this should be changed to contingencies. To ITC, the term planning event event, not the outage of a portion of the grid. standard is applicable to analyze. ITC believes it should remain the Bulk Electric System (BES) rather than (BPS). NERC standards do not typically apply to the BPS. Entities that own the BES system in an area can tity does not own the BPS also, applying it to the BPS would expose them to issues outside of their control.
Likes 0	
Dislikes 0	
Response	
Keith Jonassen - Keith Jonassen On Bel	half of: John Pearson, ISO New England, Inc., 2; - Keith Jonassen
Answer	No
Document Name	
Comment	
R6 could be moved to the beginning of the	R2-R5 section or be included as part of the Operating Plan as described in our response to Question 1.
R7 requires testing of all the events listed in	Table 1, however R9 only requires the development of CAPs for the P0 and P1 contingencies.
	only include P0 and P1 events in accordance with the FERC Order 896 Paragraph 113 Commission whether contingencies P1 through P7 should also apply to the new or modified Reliability Standard, or

whether a new set of contingencies should be developed." Paragraph 113 of the Commission Determination does not require the inclusion of events other than P0. ISO-NE believes P0 and P1 events are acceptable for this Standard, however, P2, P4, and P7 events are not.

The technical Rationale for R10 should be modified to remove "However, due to their potential severity resulting from single Contingency multiple element outages, the SDT believes it is appropriate for responsible entities to at least evaluate and document possible mitigation actions to reduce the likelihood or mitigate the consequences and adverse impacts. The biggest benefit from the evaluation and documentation of the mitigating actions is it allows an entity to see where major problems exist that they may need to be addressed; and, if a project shows up on enough issues, it may encourage a fix to be implemented without it being strictly called for from the standard. Not requiring CAPs for these contingencies but requiring the evaluation is a compromise from having CAPs for all studied issues."

Likes 0	
Dislikes 0	
Response	
Stephen Stafford - Stephen Stafford On	Behalf of: Greg Davis, Georgia Transmission Corporation, 1; - Stephen Stafford
Answer	No
Document Name	
Comment	

R6:

- The inclusion of "within an Interconnection" is not appropriate as the PC or TP should not be required to assess outside of its applicable area. Note the inclusion of more appropriate language referring to the PC's or TP's planning area (its portion of the Bulk Electric System) in this draft so it is not clear why some requirements refer to an Interconnection while others, more correctly, refer to the area of actual responsibility for the PC or TP.
- The following bullet contains a wording addition to clarify the applicability of this requirement to System-wide impacts. This is also consistent with wording in other Reliability Standards when referencing these types of impacts.
- "Each responsible entity, as identified in Requirement R1, shall define and document the criteria or methodology used in the Extreme Temperature Assessment analysis to identify instability, uncontrolled separation, or Cascading of the Bulk Electric System."

R7 & R8:

- It does not appear likely that P0 & P1 events would be "expected to produce more severe System impacts" in typical planning studies. However, with an extreme weather scenario as the baseline, a P0 or P1 may produce more severe impacts due to the anomalous starting point. It would make more sense to allow the PC/TP to develop the appropriate study methodology (and document it) to appropriately analyze the required benchmark. Focusing on traditional P-event definitions and recycling language from TPL-001 is not appropriate since the analysis/assessments between the two standards is drastically different.
- The standard does not clearly and specifically state whether steady-state and/or stability analysis is to be performed for the identified events as TPL-001 does for instance. The SDT should consider modifying R7 to allow the responsible entity to develop a methodology or rationale in the performance of a benchmark event to appropriately assess it for that entity's planning area, otherwise, additional clarity in the analysis expectations is needed. Different weather events would require a different consideration of applicable contingencies and analysis approaches.
- Adding "transient" to qualify stability may result in more confusion in interpretation between planning entities, auditors, and the referenced ERO. There is a requirement to document stability criteria so this should be clear based on that documentation. Adding "transient" therefore is more detrimental than helpful to this standard.
- Some of the lack of clarity may be related to the lack of clarity around the composition of the benchmark events to be determined. If these benchmark events are limited to temperature profiles versus temperature profiles and potential resultant generation unavailability (for example), the responsible entity's analysis approach will potentially vary.

Likes 0		
Dislikes 0		
Response		
Shannon Mickens - Shannon Mickens O r SPP RTO	n Behalf of: Joshua Phillips, Southwest Power Pool, Inc. (RTO), 2; - Shannon Mickens, Group Name	
Answer	No	
Document Name		
Comment		
SPP has concerns in reference to Requirem matrix to this standard as it creates issues v	nent R7 and the applicability of Table 1 creating issues for industry by applying the extreme weather event with the base case and scenario results.	
At this point, it is unclear how the base case will translate the benchmarked events into the models. Moreover, it is unclear on the expectations of nandling the events in the Table 1. For example, our initial assessment would lead us to believe that we will need to evaluate a P1 event like a P6 event.		
Finally, there is a concern about the validity	of the issues that maybe found dearing in this assessment and resulting dollars for CAPs.	
	ovide clarity around their expectations for Table 1 by using the current events information from TPL-001 or with the requirements of the assessment for the TPL-008.	
ikes 0		
Dislikes 0		
Response		
Rebika Yitna - Rebika Yitna On Behalf of	: David Weekley, MEAG Power, 3, 1; Roger Brand, MEAG Power, 3, 1; - Rebika Yitna	
Answer	No	
Document Name		
Comment		
The phrase "within an Interconnection" may	need to be clarified or defined.	
ikes 0		
Dislikes 0		
Response		
Donna Wood - Tri-State G and T Associa	tion, Inc 1	
Answer	No	

Document Name	
Comment	
Tri-State supports the comments submitted	by the MRO NSRF.
Likes 0	
Dislikes 0	
Response	
Greg Sorenson - Greg Sorenson On Beh	alf of: Tyler Schwendiman, ReliabilityFirst , 10; - Greg Sorenson
Answer	No
Document Name	
Comment	
Similar to the CIP-014 project, R6 includes term Interconnection Reliability Operating L	"instability, uncontrolled separation, or Cascading". This is similar to, yet slightly different from, the defined imit (IROLs).
Likes 0	
Dislikes 0	
Response	
Hillary Creurer - Allete - Minnesota Power	er, Inc 1
Answer	No
Document Name	
Comment	
Minnesota Power supports MRO's NERC S	Standards Review Forum's (NSRF) comments.
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity Co	pordinating Council - 10, Group Name WECC
Answer	No
Document Name	
Comment	

second sentence. It is not clear as to why t phrase "Contingencies identified in Require supports and reiterates the use of Continge establish a set of common contingencies fo	d replaced that with "the planning events" in the first sentence but did not strike "Contingencies" in the the change was made as "Contingency" is defined while "planning event" is not. Requirement R8 uses the ment 7" which is not supported by the proposed language of Requirement R7. The Technical Rational ency. FERC Order 896 stated (and is listed in the Technical Rationale): "[w]e believe that it is necessary to rall responsible entities to analyze. Required contingencies, such as those listed in Table 1 of Reliability rough P7), establish common planning events that set the starting point for transmission system planning
Likes 0	
Dislikes 0	
Response	
Selene Willis - Edison International - Sou	ıthern California Edison Company - 5
Answer	No
Document Name	
Comment	
Please see comments from EEI	
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA	A - Not Applicable - NA - Not Applicable
Answer	No
Document Name	
Comment	
R7. Specifically, we suggest changing "pla indicated below in boldface.	tient R6 or Requirement R8, however, we do suggest some non-substantive changes to Requirement nning event" to "contingency event" to align with Table 1.1 more clearly. Our suggested changes are
to produce more severe System impacts or	in Requirement R1, shall identify the contingency events for each category in Table 1.1 that are expected its portion of the Bulk Electric System. The rationale for those Contingencies selected for evaluation shall lation Risk Factor: High] [Time Horizon: Long-term Planning]
Likes 0	
Dislikes 0	

Response	
Danielle Moskop - Danielle Moskop On E	Behalf of: David Jendras Sr, Ameren - Ameren Services, 3, 6, 1; - Danielle Moskop
Answer	No
Document Name	
Comment	
In R7, Ameren recommends changing "Cor of R7. In addition, Ameren agrees with and	ntingencies" to "planning events" in the last sentence. This would align with the revision made in the first part supports EEI's comments.
Likes 0	
Dislikes 0	
Response	
	aura Somak, Salt River Project, 3, 6, 5, 1; Mathew Weber, Salt River Project, 3, 6, 5, 1; Thomas mothy Singh, Salt River Project, 3, 6, 5, 1; - Israel Perez
Answer	No
Document Name	
Comment	
Define Table 1 for requirement R7. We also	request increased clarity on the case selection & building process required in R4.
Likes 0	
Dislikes 0	
Response	
Rachel Coyne - Texas Reliability Entity, I	nc 10
Answer	No
Document Name	
Comment	
the responsible entity is to guess (or select portion of the BPS. Additionally, while the r	whether the responsible entity should evaluate the impact of each of the Contingencies listed in Table 1.1 or based on some rationale criteria) which contingency event will produce more severe System impacts on its equirement language states there should be rationale for those Contingencies selected, there is no language to require rationale for both why certain

Contingencies are selected and why others are not selected.

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	
Southern Company requests that the phrastransient stability is specified in R8, but not	e "within an Interconnection" be clarified or defined. Southern Company would like clarification on why other portions of the standard.
Likes 0	
Dislikes 0	
Response	
Richard Vendetti - NextEra Energy - 5	
Answer	No
Document Name	
Comment	
NextEra supports EEI's comments EEI does not have concerns with Requirement R6 or Requirement R8, however, we do suggest some non-substantive changes to Requirement R7. Specifically, we suggest changing "planning event" to "contingency event" to align with Table 1.1 more clearly. Our suggested changes are indicated below in boldface. R7. Each responsible entity, as identified in Requirement R1, shall identify the contingency events for each category in Table 1.1 that are expected to produce more severe System impacts on its portion of the Bulk Electric System. The rationale for those Contingencies selected for evaluation shall be available as supporting information. [Violation Risk Factor: High] [Time Horizon: Long-term Planning]	
Likes 0	
Dislikes 0	
Response	
Kevin Conway - Western Power Pool - 4	
Answer	No
Document Name	

Comment	
R6 and R7 Risk factors should be Medium	to match TPL 001-5.
Likes 0	
Dislikes 0	
Response	
Chris Wagner - Santee Cooper - 1, Group	p Name Santee Cooper
Answer	No
Document Name	
Comment	
	VRF's be Medium to match TPL-001-5. We also feel like the additional sensitivity studies required in R8.2 en without more clarification to how it benefits the long term planning horizon.
Likes 0	
Dislikes 0	
Response	
Amy Wilke - American Transmission Co	mpany, LLC - 1
Answer	No
Document Name	
Comment	
ATC supports the MRO NSRF comments.	
Likes 0	
Dislikes 0	
Response	
Hayden Maples - Hayden Maples On Ber Tiffany Lake, Evergy, 3, 5, 1, 6; - Hayden	nalf of: Jeremy Harris, Evergy, 3, 5, 1, 6; Kevin Frick, Evergy, 3, 5, 1, 6; Marcus Moor, Evergy, 3, 5, 1, 6 Maples
Answer	No
Document Name	
Comment	

Evergy supports and incorporates by refere Standards Review Forum (MRO NSRF) on	nce the comments of the Edison Electric Institute (EEI) and the Midwest Reliability Organization's NERC question 4
Likes 0	
Dislikes 0	
Response	
Utility District, 3, 6, 4, 1, 5; Kevin Smith,	arles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, 3, 1, 2; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim
Answer	No
Document Name	
Comment	
	ements R7 and R8 are designated as High, however, the VRF for similar requirements in TPL-001-5 are irements R7 and R8 in TPL-008-1 should be set to Medium to match TPL-001-5.
Likes 0	
Dislikes 0	
Response	
Robert Jones - Seattle City Light - 1,3,4,5	5,6
Answer	No
Document Name	
Comment	
R6 and R7 Risk factors should be Medium	to match TPL-001-5.
Likes 0	
Dislikes 0	
Response	
Broc Bruton - Broc Bruton On Behalf of:	Byron Booker, Oncor Electric Delivery, 1; - Broc Bruton
Answer	No
Document Name	

Comment	
For R6, Oncor urges its comment from R5. uncontrolled separation, or Cascading.	The PC would need to ensure that all entities use the same methodology and criteria for instability,
For R8, Oncor asks whether language can be added to ensure that entities can take credit for studies that are run as part of the Extreme Temperature Assessment, rather than running those studies again as part of the assessment to be conducted under TPL-001? For example, the Extreme Temperature Assessment could take the place of the sensitivity analysis required within the TPL-001 assessment for both the steady state and stability analyses.	
Likes 0	
Dislikes 0	
Response	
Anna Martinson - MRO - 1,2,3,4,5,6 - MR	O, Group Name MRO Group
Answer	No
Document Name	
Comment	
MRO NSRF supports some of the revisions	s and proposes modifications to others as detailed below.
R6 needs better wording to indicate instabil	lity, uncontrolled separation and cascading must all be monitored for. The "or" makes it seem optional.
R7. MRO NSRF supports the SDT's decision to modify the language from "Contingencies" to "planning events;" however, we believe a similar change should be made to the second reference to "Contingencies" later in the paragraph (see sentence 2). MRO NSRF proposes the edit below.	
R7. Each responsible entity, as identified in Requirement R1, shall identify the <i>planning events</i> for each <i>category</i> in Table 1 that are expected to produce more severe System impacts <i>on</i> its <i>portion of the Bulk Electric System</i> . The rationale for those Contingencies <i>planning events</i> selected for evaluation shall be available as supporting information.	
Part 8.1 MRO NSRF supports Part 8.1 and the analysis of the benchmark planning cases developed pursuant to Requirement 4, Part 4.1. As noted above, MRO NSRF views the benchmark temperature event as a "base case sensitivity" to that performed under TPL-001 and asks whether all sensitivities can be "baked into" the benchmark temperature event.	
Likes 1	Scott Brame, N/A, Brame Scott
Dislikes 0	
Response	
Sean Bodkin - Dominion - Dominion Res	sources, Inc 6, Group Name Dominion
Answer	No
Document Name	
Comment	

Dominion Energy supports EEI comments. additional clarity on the role of the ERO in t	In addition, Dominion Energy is concerned over the ambiguity in the CAP process and would appreciate he CAP process.
Likes 0	
Dislikes 0	
Response	
Zahid Qayyum - New York Power Author	rity - 5
Answer	No
Document Name	
Comment	
The Violation Risk Factor for R6 and R7 is	currently 'high' and should be lowered to 'medium' to align with TPL 001-5.1
Likes 0	
Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy C	Corporation - 4, Group Name FE Voter
Answer	No
Document Name	
Comment	
FirstEnergy supports EEI's comments whic	h state:
R7. Specifically, we suggest changing "pla	nent R6 or Requirement R8, however, we do suggest some non-substantive changes to Requirement nning event" to "contingency event" to more clearly align with Table 1.1. We also note that Bulk Power lectric System. Our suggested changes are indicated below in boldface:
	In Requirement R1, shall identify the contingency events for each category in Table 1.1 that are expected
	n its portion of the Bulk Electric Power System. The rationale for those Contingencies selected for evaluation n. [Violation Risk Factor: High] [Time Horizon: Long-term Planning]
shall be available as supporting information	
shall be available as supporting information Likes 0	
shall be available as supporting information Likes 0 Dislikes 0	n its portion of the Bulk Electric Power System. The rationale for those Contingencies selected for evaluation in [Violation Risk Factor: High] [Time Horizon: Long-term Planning]

Answer	No	
Document Name		
Comment		
Duke Energy agrees with and recommends implementation of EEI comments.		
Likes 0		
Dislikes 0		
Response		
Duane Franke - Manitoba Hydro - 1,3,5,6	- MRO	
Answer	No	
Document Name		
Comment		
applicable contingencies. The revised word referring to contingencies and performance performance requirements. It is expected the	base-case planning scenarios to perform the extreme temperature assessment and then identify the ing in R7 is confusing and does not convey the correct message. Please refer to the specific table when requirements, for example, refer to Table 1.1 the contingencies to be studies and Table 1.2 for the last the SDT will revise R7 to make this clarification. seed to perform additional sensitivity studies as per R 8.2 (see our response to R 4.2 under comment -3).	
Likes 0		
Dislikes 0		
Response		
Gary Trezza - Long Island Power Authority - 1 - NPCC		
Answer	No	
Document Name		
Comment		
Requirement # 7 states:		

"Each responsible entity, as identified in Requirement R1, shall identify the planning events for each category in Table 1 that are expected to produce more severe System impacts on its portion of the Bulk Electric System. The rationale for those Contingencies selected for evaluation shall be available as supporting information."

We observe that the above language is slightly different from TPL-001-5.1 Req # 3.4, which states:

	expected to produce more severe System impacts on its portion of the BES shall be identified, and a list of stem performance in Requirement R3, Part 3.1 created. The rationale for those Contingencies selected for information."
	eq #7 requires the identification of planning events for each category in Table 1 (i.e., P0, P1, P2, P4, P7), citly require the identification of planning events for each category in Table 1.
We are not certain if this distinction (added out.	burden for TPL-008-1 as compared to TPL-001-5.1) was intended by the SDT, as so we wanted to point this
	ntent is that the entity must identify contingencies for each "Category" (P2 for example) AND each "Event" is requirement could be interpreted differently by auditors.
Likes 0	
Dislikes 0	
Response	
Joyce Gundry - Public Utility District No.	1 of Chelan County - 3, Group Name CHPD
Answer	No
Document Name	
Comment	
contingencies/rational are both set as 'High'	ough R8 were very good, with one concern for R6 and R7 remaining. The VRF for the 'Bad 3' criteria and 'as proposed in TPL-008, while the same type of limits requirement has a VRF of 'Medium' in TPL-001-5 R6 the VRF for TPL-008 R6 and R7 be similarly set as 'Medium' for consistency.
Likes 1	Jennie Wike, N/A, Wike Jennie
Dislikes 0	
Response	
Jennifer Weber - Tennessee Valley Autho	ority - 1,3,5,6 - SERC
Answer	No
Document Name	
Comment	
(R6) No issues.	
· ,	
(R7) No issues.	

(R8.2) We do not agree that R8.2, which requires an increasingly more extreme scenario for purposes of a sensitivity analysis, is credible. This is especially true for longer term planning horizons when generation additions and retirements, along with transmission configuration changes and new technologies to be deployed are less detailed.	
Likes 0	
Dislikes 0	
Response	
Chelsea Loomis - Western Power Pool -	NA - Not Applicable - WECC, Group Name WPP Consortium of Engineers
Answer	No
Document Name	
Comment	
R6 and R7 Risk factors should be Medium	to match TPL 001-5.
Likes 0	
Dislikes 0	
Response	
Eric Sutlief - CMS Energy - Consumers E	Energy Company - 3,4,5 - RF
Answer	No
Document Name	
Comment	
	equirement R7, why was the use of "contingencies" in R7 changed to "planning events". Recommend sistency. When referring to contingencies in table 1, suggest updating to table "1.1".
Likes 0	
Dislikes 0	
Response	
Alyssia Rhoads - Public Utility District No. 1 of Snohomish County - 1	
Answer	No
Document Name	
Comment	

R6, and R7 VRFs are 'high', but they should be Medium to match TPL 001-5.		
Likes 2	Snohomish County PUD No. 1, 3, Chaney Holly; Jennie Wike, N/A, Wike Jennie	
Dislikes 0		
Response		
Ben Hammer - Western Area Power Administration - 1		
Answer	Yes	
Document Name		
Comment		
	Requirement R1, shall define and document the criteria or methodology used in the Extreme Temperature uncontrolled separation, <i>and</i> Cascading. within an Interconnection.	
Likes 0		
Dislikes 0		
Response		
Kinte Whitehead - Exelon - 3		
Answer	Yes	
Document Name		
Comment		
Exelon supports the comments submitted b	y the EEI for this question.	
Likes 0		
Dislikes 0		
Response		
Helen Lainis - Independent Electricity System Operator - 2		
Answer	Yes	
Document Name		
Comment		

We support the SDT's decision to modify the language from "Contingencies" to "planning events;" however, we believe a similar change should be made throughout the proposed standard.	
Likes 0	
Dislikes 0	
Response	
Rachel Schuldt - Black Hills Corporation	- 6, Group Name Black Hills Corporation - All Segments
Answer	Yes
Document Name	
Comment	
Black Hills Corporation has no concerns with	th the updated language for requirements R6, R7, and R8.
Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Pub	olic Service Co 1
Answer	Yes
Document Name	
Comment	
None	
Likes 0	
Dislikes 0	
Response	
Daniel Gacek - Exelon - 1	
Answer	Yes
Document Name	
Comment	
Exelon supports the comments submitted b	y the EEI for this question.

Likes 0		
Dislikes 0		
Response		
onald Hoover - Bonneville Power Administration - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		
BPA recommends R6 and R7 Risk factors should be set to Medium to match TPL 001-5. For R7, BPA recommends adding "and create a list of Contingencies to be evaluated". Each responsible entity, as identified in Requirement R1, shall identify the planning events for each category in Table 1 that are expected to produce more severe System impacts on its portion of the Bulk Electric System and create a list of Contingencies to be evaluated. The rationale for those Contingencies selected for evaluation shall be available as supporting information.		
	as aramasis as capperang memanem	
ikes 0		
Dislikes 0		
Response		
Constantin Chitescu - Ontario Power Gei		
Answer	Yes	
Document Name		
Comment		
ikes 0		
Dislikes 0		
Response		
Michele Shafer - New York State Electric	& Gas (NYSEG) - 6	
Answer	Yes	
Document Name		
Comment		
ikes 0		

Dislikes 0		
Response		
Matt Lewis - Lower Colorado River Authority - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Carver Powers - Utility Services, Inc 4		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Teresa Krabe - Lower Colorado River Au	thority - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Michele Tondalo - United Illuminating Co		
Answer	Yes	

Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mike Magruder - Avista - Avista Corpora	tion - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Devin Shines - PPL - Louisville Gas and	Electric Co 1,3,5,6 - SERC,RF	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Junji Yamaguchi - Hydro-Quebec (HQ) - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		

Response		
Robert Follini - Avista - Avista Corporation - 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Barbara Marion - Dominion - Dominion F	Resources, Inc 5, Group Name Dominion	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Donald Lock - Talen Generation, LLC - 5		
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 NPCC RSC		
Answer	Yes	
Document Name		

Comment	
Likes 0	
Dislikes 0	
Response	
Fon Hiew - NB Power Corporation - New	Brunswick Power Transmission Corporation - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Lidija Efremova - Lidija Efremova On Bel	half of: Emma Halilovic, Hydro One Networks, Inc., 1; - Lidija Efremova
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Srikanth Chennupati - Entergy - Entergy	Services, Inc 1,3,5,6 - SERC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Jessica Cordero - Unisource - Tucson E	lectric Power Co 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		
Jeffrey Streifling - NB Power Corporation	n - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Chantal Mazza - Chantal Mazza On Behalf of: Nicolas Turcotte, Hydro-Quebec (HQ), 1, 5; - Chantal Mazza		
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	

5. The DT updated Requirement R9 based on comments received. Do you agree with the updated proposed TPL-008-1 Reliability Standard Requirement R9? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

Long Island Power Authority	
Answer	No
Document Name	(if an attachment is provided by submitter)

Comment

Requirement #9.3 states:

"Be permitted to utilize Non-Consequential Load Loss as an interim solution, which normally is not permitted in Table 1, in situations that are beyond the control of the Planning Coordinator or Transmission Planner that prevent the implementation of a Corrective Action Plan in the required timeframe."

The Extreme Temperature Assessment would have to be performed at least once every 5 years, assessing one year in the Long Term Planning Horizon.

It is recognized that the details of the extreme heat/cold benchmark temperature events may change over time, and that the underlying assumptions utilized in the Extreme Temperature Assessment for one of the years in the Long Term Planning Horizon may change over time. CAPs identified in one Assessment may not be needed in a future Assessment. It may be difficult to pursue expensive CAPs understanding that assumptions may change.

With this in mind, we find it difficult from a compliance perspective to clearly identify what is meant by "in the required timeframe". This language, while allowing for flexibility, seems very ambiguous. The Technical Rationale does not elaborate on this point.

We recommend that the SDT clarify what is intended by "in the required timeframe."

Likes 0	# of other submitters who agree with these comments
Dislikes 0	# of other submitters who disagree with these comments

Response

(Drafting team's response to submitter's comments)

Chantal Mazza - Chantal Mazza On Behalf of: Nicolas Turcotte, Hydro-Quebec (HQ), 1, 5; - Chantal Mazza

Answer	No
Document Name	

Comment	
and items. Extreme weather	ocesses for interactions with applicable regulatory authorities and governing bodies regarding CAP for many other issues CAPs are not exceptions and do not need a new way to solicit feedback. R9.1 should be removed because it also creates thout any benefit to reliability and would be confusing.
Likes 0	
Dislikes 0	
Response	
Jeffrey Streifling - NB Powe	er Corporation - 1
Answer	No
Document Name	
Comment	
and items. Extreme weather	ocesses for interactions with applicable regulatory authorities and governing bodies regarding CAP for many other issues CAPs are not exceptions and do not need a new way to solicit feedback. R9.1 should be removed because it also creates thout any benefit to reliability and would be confusing.
Likes 0	
Dislikes 0	
Response	
Alyssia Rhoads - Public Uti	lity District No. 1 of Snohomish County - 1
Answer	No
Document Name	
Comment	
this not applicable to non-Juri jurisdictional entities and non-	thorities electric service" needs better clarification - what does this look like for Jurisdisctionals vs non-Jurisdictionals - is isdictionals? Ask of SDT to provide better guidance & examples. Could NERC provide some examples for both -jurisdictional entities for what is intended for this standard. It is highly recommended using operation procedures instead edures have more flexibility to respond to a system's needs and adapt proactively.
Likes 2	Snohomish County PUD No. 1, 3, Chaney Holly; Jennie Wike, N/A, Wike Jennie
Dislikes 0	
Response	
Chelsea Loomis - Western I	Power Pool - NA - Not Applicable - WECC, Group Name WPP Consortium of Engineers

Answer	No	
Document Name		
Comment		
Language unclear pertaining to non-jurisdictionals, could NERC provide some examples for both jurisdictionals and non-jurisdictionals for what is intended for this standard? applicable regulatory authorities or governing bodies responsible for retail electric service" needs better clarification - what does this look like for Jurisdisctionals vs non-Jurisdictionals - is this not applicable to non-Jurisdictionals? Ask of SDT to provide better guidance and examples here.		
Could operational procedures be used in lie	u of a CAP as an acceptable mitigation?	
Likes 0		
Dislikes 0		
Response		
Srikanth Chennupati - Entergy - Entergy	Services, Inc 1,3,5,6 - SERC	
Answer	No	
Document Name		
Comment		
R9.3 The phrase "required timeframe" is unclear and should be more thoroughly defined.		
Likes 0		
Dislikes 0		
Response		
Jennifer Weber - Tennessee Valley Authority - 1,3,5,6 - SERC		
Answer	No	
Document Name		
Comment		
(R9.1) We cannot agree with R9.1 without further clarification of how "applicable" entities are determined. We recommend that the reference to "applicable" entities in R9.1 should be integrated into R3, suggesting that "applicable" entities shall be identified as part of R3 coordination process developed by the PC.		

best to meet performance requirements is o	ne lack of understanding of the value for "alternative considerations". The analysis process to determine how quite complex and comprehensive. We believe attempting to document, notify, and discuss alternatives that I, and therefore less impactful to ensure system performance would be an inefficient and ineffective task, and
(R9.3) No issues.	
(R9.4) No issues.	
Likes 0	
Dislikes 0	
Response	
Lidija Efremova - Lidija Efremova On Be	half of: Emma Halilovic, Hydro One Networks, Inc., 1; - Lidija Efremova
Answer	No
Document Name	
Comment	
Comments: We think R9.1 should be removed because existing planning requirements and process	e it creates a compliance requirement without any incremental benefit to reliability. It further conflicts with ses.
Please see comment on R10.	
Likes 0	
Dislikes 0	
Response	
Joyce Gundry - Public Utility District No.	. 1 of Chelan County - 3, Group Name CHPD
Answer	No
Document Name	
Comment	

CHPD believes the updates made to R9 were very good, with a couple concerns remaining. The first concern is to the statement 'make their CAP available' in R9.1. CHPD suggests this be changed to 'make available on request', to align with a similar request-based mechanism under R11. We've found the general 'make available' is murky language for compliance.

The second concern is the expectation in 9.1 and 9.2 for soliciting feedback and notifications to 'regulatory authorities or governing bodies responsible for retail electric service issues. The intent here is not clear. Could the SDT provide some examples of what is intended here, both for Jurisdictional and

non-Jurisdictional entities? Furthermore, it i measures for compliance with R9.	is noted that the Measures for R9 do not appear to include the solicitation and notification as part of the
Likes 1	Jennie Wike, N/A, Wike Jennie
Dislikes 0	
Response	
Duane Franke - Manitoba Hydro - 1,3,5,6	- MRO
Answer	No
Document Name	
Comment	
	of Corrective Action Plans for P1 events where applicable facility ratings are exceeded and steady state nent goes beyond the directives in FERC Order 896. The FERC Order is concerned with cascading, ot with facility overloads.
Likes 0	
Dislikes 0	
Response	
Ronald Hoover - Bonneville Power Admi	nistration - 1,3,5,6 - WECC
Answer	No
Document Name	
Comment	
	pesn't occur often. BPA recommends these issues be resolved in the operational time horizon through g plan would provide acceptable performance for an extreme event. BPA believes an operating plan could be
Likes 0	
Dislikes 0	
Response	
Fon Hiew - NB Power Corporation - New	Brunswick Power Transmission Corporation - 5
Answer	No
Document Name	
Comment	

and items. Extreme weather CAPs are not exceptions and do not need a new way to solicit feedback. R9.1 should be removed because it also creates a compliance requirement without any benefit to reliability and would be confusing.		
Likes 0		
Dislikes 0		
Response		
Andy Thomas - Duke Energy - 1,3,5,6 - S	ERC,RF	
Answer	No	
Document Name		
Comment		
Additionally: (a) Define authorities and governing bodies listed in proposed Requirement 9.1.: "Make their CAP available and solicit feedback from applicable regulatory authorities or governing bodies responsible for retail electric service issues" and (b) Modify R9.2. to read 'Document "any" alternative(s) considered', since scenarios may only have one option and prove unrealistic for all scenarios. Likes 0 Dislikes 0		
Response		
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter		
Answer	No	
Document Name		
Comment		
	providing feedback toward CAP – timeframe of soliciting feedback and what actions would result from "regulatory authorities or governing bodies for retail service" would be.	

There are already existing processes for interactions with applicable regulatory authorities and governing bodies regarding CAP for many other issues

FirstEnergy also supports EEI's comments which state:

EEI offers non-substantive edits in boldface below to Requirement R9.

R9. Each responsible entity, as identified in Requirement R1, shall develop a Corrective Action Plan(s) (CAPs) when the assessment of a benchmark planning case, in accordance with Requirement R8 Part 8.1, indicates its portion of the Bulk **Electric Power** System is unable to meet performance requirements for Table **1.1** P0 or P1 Contingencies. For each Corrective Action Plan, the responsible entity shall: [Violation Risk Factor: High] [Time Horizon: Long-term Planning]

Comment	
Document Name	
Answer	No
Anna Martinson - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO Group	
Response	
Dislikes 0	
Likes 0	
Regarding R9.1 NYPA request standard drafting team to clarify the term "applicable regulatory authoritieselectric service" for better clarification and understanding.	
Comment	
Document Name	
Answer	No
Zahid Qayyum - New York Power Author	ity - 5
Response	
Dislikes 0	
Likes 0	

The MRO NSRF recommends the SDT adopt one of the two options (below) and clarify the requirements for each.:

Option #1:

- R9 should focus solely on either benchmark cases for power flow and stability and
- R10 should focus solely on sensitivity cases for each

Option #2:

- R9 should focus on power flow for both benchmark and stability and
- R10 focus on sensitivity study requirements for both power flow and dynamic stability.

MRO NSRF observes that **R9** addresses Load Loss under TPL-008 whereas this is addressed under TPL-001 in TPL-001-5.1, Table 1. The first sentence of Part 9.3 should be stricken from the standard as illustrated below because it is explanatory in nature and adds no value to the standard. MRO NSRF recommends this be migrated to the Technical Rationale if the SDT feels it is important to retain.

9.3.The use of Non-Consequential Load Loss as an interim solution in this situation is permitted, provided that each responsible entity documents the situation causing the problem, alternatives evaluated, and takes actions to resolve the situation.

(Please review the attached document, question 1).		
Likes 1	Scott Brame, N/A, Brame Scott	
Dislikes 0		
Response		
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	
Answer	No	
Document Name		
Comment		
There are already existing processes for interactions with applicable regulatory authorities and governing bodies regarding CAP for many other issues and items. Extreme weather CAPs are not exceptions and do not need a new way to solicit feedback. R9.1 should be removed because it also creates a compliance requirement without any benefit to reliability and would be confusing.		
Likes 0		
Dislikes 0		
Response		
Broc Bruton - Broc Bruton On Behalf of:	Byron Booker, Oncor Electric Delivery, 1; - Broc Bruton	
Answer	No	
Document Name		
Comment		
Oncor strongly disagrees with the following statement in R9.1: "Make their CAP available and solicit feedback from, applicable regulatory authorities or governing bodies responsible for retail electric service issues." We propose that "applicable regulatory authorities or governing bodies" be defined and limited. For example, a TP should only need to provide their PC with CAP information. In addition, we disagree with the following phrase "and notify the applicable regulatory authorities or governing bodies responsible for retail electric service issues" as it relates to Load Shed. The intended regulatory audience needs to be clearly defined.		
Likes 0		
Dislikes 0		
Response		
Robert Jones - Seattle City Light - 1,3,4,5	5,6	
Answer	No	
Document Name		

The language unclear pertaining to non-jurisdictionals. "Applicable regulatory authorities or governing bodies responsible for retail electric service" needs better clarification - what does this look like for Jurisdisctionals vs non-Jurisdictionals. Is this not applicable to non-Jurisdictionals? Please provide better guidance and examples here.		
Could operational procedures be used in lie	eu of a CAP as an acceptable mitigation?	
Likes 0		
Dislikes 0		
Response		
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Kevin Smith, Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD and BANC		
Answer	No	
Document Name		
Comment		
SMUD supports the comments submitted by the MRO NSRF.		
Likes 0		
Dislikes 0		
Response		
Donald Lock - Talen Generation, LLC - 5		
Answer	No	
Document Name		
Comment		
The term, "Non-Consequential Load Loss," is an oxymoron.		
Likes 0		
Dislikes 0		
Response		

Comment

Hayden Maples - Hayden Maples On Behalf of: Jeremy Harris, Evergy, 3, 5, 1, 6; Kevin Frick, Evergy, 3, 5, 1, 6; Marcus Moor, Evergy, 3, 5, 1, 6; Tiffany Lake, Evergy, 3, 5, 1, 6; - Hayden Maples

Answer	No
Document Name	
Comment	
Evergy supports and incorporates by reference the comments of the Edison Electric Institute (EEI) and the Midwest Reliability Organization's NERC Standards Review Forum (MRO NSRF) on question 5	
Likes 0	
Dislikes 0	
Response	
Amy Wilke - American Transmission Cor	mpany, LLC - 1
Answer	No
Document Name	
Comment	
ATC supports the MRO NSRF comments.	
Likes 0	
Dislikes 0	
Response	
Robert Follini - Avista - Avista Corporation	on - 3
Answer	No
Document Name	
Comment	
Avista offers the following suggested comments for consideration:	
Avista suggests clarifying that operational procedures may be acceptable mitigation.	
Avista suggests NERC does not need to require interactions with regulatory authorities and governing bodies.	
Likes 0	
Dislikes 0	
Response	

Chris Wagner - Santee Cooper - 1, Group Name Santee Cooper		
Answer	No	
Document Name		
Comment		
	ents for defining regulatory authorities and governing bodies proposed in R9.1. We also suggest modifying) considered', since scenarios may only have one option and prove unrealistic for all scenarios.	
Likes 0		
Dislikes 0		
Response		
Kevin Conway - Western Power Pool - 4		
Answer	No	
Document Name		
Comment		
intended for this standard? applicable reguldoes this look like for Jurisdisctionals vs no	tionals, could NERC provide some examples for both jurisdictionals and non-jurisdictionals for what is atory authorities or governing bodies responsible for retail electric service" needs better clarification - what n-Jurisdictionals - is this not applicable to non-Jurisdictionals? Ask of SDT to provide better guidance and ses be used in lieu of a CAP as an acceptable mitigation?	
Likes 0		
Dislikes 0		
Response		
Junji Yamaguchi - Hydro-Quebec (HQ) -	5	
Answer	No	
Document Name		
Comment		
There are already existing processes for interactions with applicable regulatory authorities and governing bodies regarding CAP for many other issues and items. Extreme weather CAPs are not exceptions and do not need a new way to solicit feedback. R9.1 should be removed because it also creates a compliance requirement without any benefit to reliability and would be confusing.		
Likes 0		
Dislikes 0		
Response		

Pamela Hunter - Southern Company - Southern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company		
Answer	No	
Document Name		
Comment		
It is Southern Company's recommendation R9.1, should be removed from the standard	that the language requiring entities to solicit feedback from regulatory authorities and governing bodies, in	
The action of soliciting regulatory feedback/approval does not comport with a risk-based action and only serves as an administrative burden that could delay reliability improvements to the BES. It is beyond the purview of a reliability standard to mandate a regulatory strategy for the implementation of projects. The precedent set by TPL-001-5 pertaining to notifying regulatory authorities and governing bodies is specific to the review of non-consequential load loss and does not support mandating regulatory authority and governing body feedback solicitation as outlined in R9.1.		
Further clarification of the recipients and intention for making CAP details available is also required for R9.1 since not all entities fall under the jurisdiction of a Public Service Commission and considerations need to be made for the sharing of CEII information.		
Southern appreciates the inclusion of R9.3 and R9.4 as clarification for CAP development.		
Likes 0		
Dislikes 0		
Response		
Devin Shines - PPL - Louisville Gas and I	Electric Co 1,3,5,6 - SERC,RF	
Answer	No	
Document Name		
Comment		
The DT replaced "assessment" with "analysis" in Requirement R8 Part 8.1. It is suggested that the same replacement be made in Requirement R9 for consistency.		
Soliciting feedback from applicable regulatory authorities or governing bodies responsible for retail electric service should not be required for CAPs that do not include Non-Consequential Load Loss. There is no need to add the administrative burden or introduce the opportunity for disagreements and delays when the responsible entity is doing something straightforward like reconductoring a transmission line.		
This type of solicitation is only required in TPL-001 when Non-Consequential Load Loss is being used as an emergency mitigation option, which is appropriate. The DT has done the reverse. Normal CAPs require feedback per Parts 9.1 and 9.2. However, the use of Non-Consequential Load Loss as an emergency mitigation option does not require feedback per Part 9.3. It is recommended that the DT remove Part 9.1 and add the feedback solicitation to Part 9.3. In this way, any use of Non-Consequential Load Loss (whether planned or emergency alternative) will receive feedback. CAPs including only standard System upgrades can proceed without the additional coordination.		
Likes 0		
Dislikes 0		

Response		
Mike Magruder - Avista - Avista Corporation - 1		
Answer	No	
Document Name		
Comment		
Suggest clarifying that operational procedures may be acceptable mitigation.		
Suggest NERC does not need to require in	teractions with regulatory authorities and governing bodies.	
Likes 0		
Dislikes 0		
Response		
	Laura Somak, Salt River Project, 3, 6, 5, 1; Mathew Weber, Salt River Project, 3, 6, 5, 1; Thomas mothy Singh, Salt River Project, 3, 6, 5, 1; - Israel Perez	
Answer	No	
Document Name		
Comment		
Define Table 1 for requirement R9. Define who are the regulatory authorities or governing bodies.		
Likes 0		
Dislikes 0		
Response		
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC		
Answer	No	
Document Name		
Comment		

Requirement R9 should say "Extreme Temperature Assessment" Or "analysis" versus simply "assessment". It is not clear where and when prevention of a Corrective Action Plan implementation would occur. Broadly allowing the use of Non-Consequential Load Loss could be detrimental to reliability. Calling it an "interim solution" with no CAP deadlines set and allowances for "revisions to the CAP in subsequent Extreme Temperature Assessments" ("subsequent" equals once every five (5) calendar years as a minimum based on a simple compliance approach) essentially creates an environment where Non-Consequential Load is a compliant result that does not appear to support reliability. Requirement R9 Part 9.4 is unclear. Who

is allowing this to occur? Sounds more like Non-Consequential Load Loss.	a statement but unsure of who the statement should be for as there is no process for the "permitted" use on
Likes 0	
Dislikes 0	
Response	
Teresa Krabe - Lower Colorado River Au	thority - 5
Answer	No
Document Name	
Comment	
	strongly disagrees with the following statement in R9.1: "Make their CAP available and solicit feedback from ng bodies responsible for retail electric service issues." We propose that "applicable regulatory authorities or
Likes 0	
Dislikes 0	
Response	
Hillary Creurer - Allete - Minnesota Powe	er, Inc 1
Answer	No
Document Name	
Comment	
Minnesota Power supports MRO's NERC S	tandards Review Forum's (NSRF) comments.
Likes 0	
Dislikes 0	
Response	
Matt Lewis - Lower Colorado River Author	ority - 1
Answer	No
Document Name	
Comment	

	at we strongly disagrees with the following statement in R9.1: "Make their CAP available and solicit feedback overning bodies responsible for retail electric service issues." We propose that "applicable regulatory and limited.
Likes 0	
Dislikes 0	
Response	
Donna Wood - Tri-State G and T Associa	ation, Inc 1
Answer	No
Document Name	
Comment	
Tri-State supports the comments submitted	by the MRO NSRF.
Likes 0	
Dislikes 0	
Response	
Rebika Yitna - Rebika Yitna On Behalf of	: David Weekley, MEAG Power, 3, 1; Roger Brand, MEAG Power, 3, 1; - Rebika Yitna
Answer	No
Document Name	
Comment	
The language requiring entities to solicit fee	edback from regulatory authorities and governing bodies, in R9.1, should be clarified.
Likes 0	
Dislikes 0	
Response	
Stephen Stafford - Stephen Stafford On	Behalf of: Greg Davis, Georgia Transmission Corporation, 1; - Stephen Stafford
Answer	No
Document Name	
Comment	
As it stands, "Performance Require	ements" referred to in this draft is not clearly defined. Refer to the comment for R5.

- Note the inclusion of language referring to the PC's or TP's planning area (its portion of the Bulk Electric System) in this draft so it is not clear why some requirements refer to an Interconnection while others, more correctly, refer to the area of actual responsibility for the PC or TP.
- Refer to previous comments for question 4 regarding referencing specific P events instead of a methodology developed by the PC/TP to appropriately assess the studied benchmark event.
- R9.4 refers to "performance requirements of Table 1". There are no performance requirements (stable system, loading within Facility Ratings...) in this draft of Table 1.
- The purpose and required response actions related to the sharing of CAPs and solicitation of feedback is not clear.
- Documentation of alternatives is an additional administrative burden and provides little benefit to reliability. It is also unclear if there is some type of expectation these alternatives are reviewed or potentially challenged as invalid.
- R9.3 would be better captured in Table 1 similar to TPL-001 Table 1.
- The role of the TO and/or GO in implementing or otherwise responding to CAPs that may require additions or modifications to their systems/facilities is not captured in these requirements.
- There appears to be a significant amount of outside review required but no clear actions the responsible entity is required to take, particularly if there is a dispute. What is the purpose of the review and the expected response? This potentially produces an undue burden on the PC/TP and adds subjectivity in requiring a review with no documented guidelines for conducting the review.

Likes 0		
Dislikes 0		
Response		
Constantin Chitescu - Ontario Power Ge	neration Inc 5	
Answer	No	
Document Name		
Comment		
OPG supports NPCC Regional Standards Committee's comments: There are already existing processes for interactions with applicable regulatory authorities and governing bodies regarding CAP for many other issues and items. Extreme weather CAPs are not exceptions and do not need a new way to solicit feedback. R9.1 should be removed because it also creates a compliance requirement without any benefit to reliability and would be confusing. Likes 0 Dislikes 0		
Response		
Keith Jonassen - Keith Jonassen On Behalf of: John Pearson, ISO New England, Inc., 2; - Keith Jonassen		
Answer	No	
Document Name		
Comment		
See SRC Comments		

Likes 0	
Dislikes 0	
Response	
Ben Hammer - Western Area Pow	er Administration - 1
Answer	No
Document Name	
Comment	
	Load Loss as an interim solution in this situation is permitted, provided that each responsible entity documents the actives evaluated, and takes actions to resolve the situation.
Likes 0	
Dislikes 0	
Response	
Allie Gavin - Allie Gavin On Behal	f of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin
Answer	No
Document Name	
Comment	
would need to make a notification as is included in TPL-001 At R9.3 Delete the first sentence	rement for the notification to an applicable regulatory entity should also include a threshold. As written, an entity cation if a proposal tripped 0.1 MW of non-consequential load. Recommend the DT add a threshold in a similar way stachment 1. The contract of this sub-requirement. It is explanatory and does not add anything to the intent of R9. The contract of this sub-regular of the contract
Likes 0	
Dislikes 0	
Response	
Diana Aguas - CenterPoint Energy	y Houston Electric, LLC - 1 - Texas RE
Answer	No
Document Name	
Comment	
Please refer to Question 1 comment	S.

Likes 0	
Dislikes 0	
Response	
Usama Tahir - Seminole Electric Coopera	ative, Inc 3
Answer	No
Document Name	
Comment	
that are not clearly laid out here which could	rements for other regulatory authorities or governing bodies. Those entities may have approval requirements d cause an undue burden onto NERC entities. Other regulatory entities, if they have been given such own, to achieve what the SDT has written in R9.1.
Likes 0	
Dislikes 0	
Response	
Bobbi Welch - Midcontinent ISO, Inc 2,	Group Name ISO/RTO Council Standards Review Committee (SRC) Project 2023-07 TPL-008-1 Draft #2
Answer	No
Document Name	
Comment	
recommends the first sentence of Part 9.3 be the standard. The SRC recommends the first 9.3. The use of Non-Consequential Load Los situation causing the problem, alternatives of The SRC also expresses concern with Part Non-Consequential Load Loss is utilized as consistent with existing reporting requireme 9.2 Document the alternatives considered a issues <i>only</i> when Non-Consequential Load	Iressed in TPL-008, requirement R9 whereas Load Loss is addressed in TPL-001-5.1, Table 1. The SRC be stricken from the standard as illustrated below because it is explanatory in nature and adds no value to set sentence be migrated to the Technical Rationale if the SDT feels it is important to retain. Dess as an interim solution in this situation is permitted, provided that each responsible entity documents the evaluated and takes actions to resolve the situation. 9.2, concerning notification to local public service commissions, and proposes this <i>only</i> be required when an element of a corrective action plan (CAP) for the Table P1 contingency. The SRC believes this would be not in TPL-001 and FERC Order 896. See proposed language below: Ind notify the applicable regulatory authorities or governing bodies responsible for retail electric service Loss is utilized as an element of a CAP for the Table 1 P1 Contingency. C includes the following entities: CAISO (only in support of our recommendation regarding Part 9.3), ERCOT,
Likes 0	

Dislikes 0		
Response		
Kennedy Meier - Electric Reliability Cour	ncil of Texas, Inc 2	
Answer	No	
Document Name		
Comment		
ERCOT joins the comments submitted by the IRC SRC and adopts them as its own.		
Likes 0		
Dislikes 0		
Response		
Elizabeth Davis - Elizabeth Davis On Beh	nalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis	
Answer	No	
Document Name		
Comment		
PJM supports the IRC SRC comments.		
Likes 0		
Dislikes 0		
Response		
Eric Sutlief - CMS Energy - Consumers E	inergy Company - 3,4,5 - RF	
Answer	Yes	
Document Name		
Comment		
Recommend updating table references to 1	.2.	
Likes 0		
Dislikes 0		
Response		

Gary Trezza - Long Island Power Authori	ty - 1 - NPCC	
Answer	Yes	
Document Name		
Comment		
Requirement #9.3 states:		
"Be permitted to utilize Non-Consequential Load Loss as an interim solution, which normally is not permitted in Table 1, in situations that are beyond the control of the Planning Coordinator or Transmission Planner that prevent the implementation of a Corrective Action Plan in the required timeframe."		
The Extreme Temperature Assessment would have to be performed at least once every 5 years, assessing one year in the Long Term Planning Horizon.		
It is recognized that the details of the extreme heat/cold benchmark temperature events may change over time, and that the underlying assumptions utilized in the Extreme Temperature Assessment for one of the years in the Long Term Planning Horizon may change over time. CAPs identified in one Assessment may not be needed in a future Assessment. It may be difficult to pursue expensive CAPs understanding that assumptions may change.		
	ompliance perspective to clearly identify what is meant by "in the required timeframe". This language, while us. The Technical Rationale does not elaborate on this point.	
We recommend that the SDT clarify what is intended by "in the required timeframe."		
Likes 0		
Dislikes 0		
Response		
Daniel Gacek - Exelon - 1		
Answer	Yes	
Document Name		
Comment		
Exelon supports the comments submitted by the EEI for this question.		
Likes 0		
Dislikes 0		
Response		
Daniela Atanasovski - APS - Arizona Pub	olic Service Co 1	
Answer	Yes	

Document Name	
Comment	
None	
Likes 0	
Dislikes 0	
Response	
Rachel Schuldt - Black Hills Corporation	- 6, Group Name Black Hills Corporation - All Segments
Answer	Yes
Document Name	
Comment	
Black Hills Corporation has no concerns wit	th the updated language for requirement R9.
Likes 0	
Dislikes 0	
Response	
Richard Vendetti - NextEra Energy - 5	
Answer	Yes
Document Name	
Comment	
NextEra supports EEI's comments : EEI offers non-substantive edits in boldfac	re below to Requirement R9.
benchmark planning case, in accordance w requirements for Table 1.1 P0 or P1 Contine Horizon: Long-term Planning]	d in Requirement R1, shall develop a Corrective Action Plan(s) (CAPs) when the assessment of a ith Requirement R8 Part 8.1, indicates its portion of the Bulk Electric System is unable to meet performance gencies. For each Corrective Action Plan, the responsible entity shall: [Violation Risk Factor: High] [Time edback from applicable regulatory authorities or governing bodies responsible for retail electric service

issues.

	l and notify the applicable regulatory authorities or governing bodies responsible for retail electric service is utilized as an element of a CAP for the Table 1.1 P1 Contingency.	
the control of the Planning Coordinator or The use of Non-Consequential Load Loss a	tial Load Loss as an interim solution, which normally is not permitted in Table 1, in situations that are beyond ransmission Planner that prevent the implementation of a Corrective Action Plan in the required timeframe. s an interim solution in this situation is permitted, provided that each responsible entity documents the evaluated, and takes actions to resolve the situation.	
Likes 0		
Dislikes 0		
Response		
Danielle Moskop - Danielle Moskop On B	ehalf of: David Jendras Sr, Ameren - Ameren Services, 3, 6, 1; - Danielle Moskop	
Answer	Yes	
Document Name		
Comment		
In R9.1, Ameren suggests inserting the phrase "and Planning Coordinators" after "governing bodies." Ameren CAPs are typically approved by the Planning Coordinator through a stakeholder process.		
Likes 0		
Dislikes 0		
Response		
Mark Gray - Edison Electric Institute - NA	A - Not Applicable - NA - Not Applicable	
Answer	Yes	
Document Name		
Comment		
EEI offers non-substantive edits in boldface below to Requirement R9.		
R9. Each responsible entity, as identified in Requirement R1, shall develop a Corrective Action Plan(s) (CAPs) when the assessment of a benchmark planning case, in accordance with Requirement R8 Part 8.1, indicates its portion of the Bulk Electric System is unable to meet performance requirements for Table 1.1 P0 or P1 Contingencies. For each Corrective Action Plan, the responsible entity shall: [Violation Risk Factor: High] [Time Horizon: Long-term Planning]		
9.1. Make their CAP available and solicit feedback from applicable regulatory authorities or governing bodies responsible for retail electric service issues.		

	d and notify the applicable regulatory authorities or governing bodies responsible for retail electric service is utilized as an element of a CAP for the Table 1.1 P1 Contingency.
the control of the Planning Coordinator or T The use of Non-Consequential Load Loss a	tial Load Loss as an interim solution, which normally is not permitted in Table 1, in situations that are beyond ransmission Planner that prevent the implementation of a Corrective Action Plan in the required timeframe. as an interim solution in this situation is permitted, provided that each responsible entity documents the evaluated, and takes actions to resolve the situation.
Likes 0	
Dislikes 0	
Response	
Selene Willis - Edison International - Sou	ıthern California Edison Company - 5
Answer	Yes
Document Name	
Comment	
Please see comments from EEI	
Likes 0	
Dislikes 0	
Response	
Carver Powers - Utility Services, Inc 4	
Answer	Yes
Document Name	
Comment	
may not actually be realistic for certain entit must assume that the process for developin ERO footprint. Based on other projects that include develotimelines set for the CAPs. Perhaps not in the set of the caps.	g the benchmarks to be set by NERC and the number of CAPs that may exist. The benchmarks identified ies depending on locations and could complicate the ability to apply CAPS for unrealistic benchmarks. We not the benchmarks will recognize the complexities that microclimates play on certain locations across the sping and implementing CAPs, USV would feel more confident with the proposed modifications if there were he standard itself, but guidance on timelines could be explained in the technical rationale and include entities can utilize backup action plans such as Non-Consequential Load Loss.
unionies for implementing OAF's and when	entities can utilize backup action plans such as mon-consequential Load Loss.
Likes 0	
Dislikes 0	

Response	
Kinte Whitehead - Exelon - 3	
Answer	Yes
Document Name	
Comment	
Exelon supports the comments submitted b	y the EEI for this question.
Likes 0	
Dislikes 0	
Response	
Bob Cardle - Bob Cardle On Behalf of: M 3, 1, 5; Tyler Brun, Pacific Gas and Elect	arco Rios, Pacific Gas and Electric Company, 3, 1, 5; Sandra Ellis, Pacific Gas and Electric Company, ric Company, 3, 1, 5; - Bob Cardle
Answer	Yes
Document Name	
Comment	
PGAE has no comment on the updated R9 Corrective Action Plan.	
Likes 0	
Dislikes 0	
Response	
Robert Blackney - Edison International -	Southern California Edison Company - 1
Answer	Yes
Document Name	
Comment	
See comments submitted by Edison Electric	c Institute
Likes 0	
Dislikes 0	
Response	

Thomas Foltz - AEP - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Jessica Cordero - Unisource - Tucson El	lectric Power Co 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Sean Bodkin - Dominion - Dominion Res	ources, Inc 6, Group Name Dominion	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Barbara Marion - Dominion - Dominion Resources, Inc 5, Group Name Dominion		
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Helen Lainis - Independent Electricity Sy	stem Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michele Tondalo - United Illuminating Co	o 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Greg Sorenson - Greg Sorenson On Beh	alf of: Tyler Schwendiman, ReliabilityFirst , 10; - Greg Sorenson
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michele Shafer - New York State Electric	& Gas (NYSEG) - 6

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Shannon Mickens On SPP RTO	n Behalf of: Joshua Phillips, Southwest Power Pool, Inc. (RTO), 2; - Shannon Mickens, Group Name
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Apollonia Gonzales - PNM Resources - P	Public Service Company of New Mexico - 1,3,5 - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
John Brewer - National Energy Technology	gy Laboratory - 9 - NA - Not Applicable
Answer	Yes
Document Name	
Comment	

Likes 0		
Dislikes 0		
Response		
Rachel Coyne - Texas Reliability Entity, l	nc 10	
Answer		
Document Name		
Comment		
	g a timeframe for which the CAPs need to be developed and submitted for review once the benchmark tem is unable to meet performance requirements.	
service." As an initial matter, it is unclear ho process. More broadly, since the Reliability within the NERC jurisdictional model, has the	rns about the submission of CAPs solely to "applicable regulatory authoritiesresponsible for retail electric by this requirement will work in practice and how the ERO could maintain visibility into the CAP review Coordinator (RC) is the functional entity responsible for the Reliable Operation of the Bulk Electric System e Wide Area view of the Bulk Electric System, and has the operating tools, processes and procedures, emergency operating situations, the CAP should at least be submitted to the RC in addition to applicable	
Consistent with this approach, Texas RE recommends the following revision:		
9.1 Make their CAPs available and solicit feedback from their Reliability Coordinator and applicable regulatory authorities or governing bodies responsible for retail electric service issues within 60 days of developing the CAPs.		
Likes 0		
Dislikes 0		
Response		

Long Island Power Authority	
Long Island Power Authority	
Answer	Yes
Document Name	(if an attachment is provided by submitter)
Comment	
Submitter's comments	
Likes 0	# of other submitters who agree with these comments
Dislikes 0	# of other submitters who disagree with these comments
Response	
(Drafting team's response to subm	itter's comments)
John Brewer - National Energy Techn	ology Laboratory - 9 - NA - Not Applicable
Answer	No
Document Name	
Comment	
(R10) Previous requirements allowed for alto action to mitigate the consequences and ad-	ernative(s) to be considered. We are suggesting replacing all "possible actions" with "possible action(s)" to allow a single verse impacts.
Likes 0	
Dislikes 0	
Response	
Bob Cardle - Bob Cardle On Behalf of 3, 1, 5; Tyler Brun, Pacific Gas and Ele	: Marco Rios, Pacific Gas and Electric Company, 3, 1, 5; Sandra Ellis, Pacific Gas and Electric Company ectric Company, 3, 1, 5; - Bob Cardle
Answer	No
Document Name	
Comment	
that the benchmark planning cases only	rase "instability, uncontrolled separation, or Cascading" in R10.1, but not 10.2 is confusing. This would indicate require entities to "evaluate and document possible actions" if they rise to the level of significant BES ovide a clarifying statement to explain this rationale.

Likes 0		
Dislikes 0		
Response		
Diana Aguas - CenterPoint Energy Hous	ton Electric, LLC - 1 - Texas RE	
Answer	No	
Document Name		
Comment		
Please refer to Question 1 comments.		
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 understands the need for both steady-state and stability studies for the required contingencies. However, ITC makes the following recommendation for the sensitivity event being evaluated. R10 should be modified to only require P0 and P1 contingencies be analyzed as part of the standard for the sensitivity event. The remaining		
contingencies identified should be left as ar case. Additionally Table 1 should be modifi	n option for entities. R10.2 should only be applicable for steady state studies of P0 and P1 for the sensitivity ied so that system issues identified during steady state reviews for P0 and P1 be addressed with a CAP. As ity case studies are purely an administrative burden on entities completing the studies.	
Likes 0		
Dislikes 0		
Response		
Keith Jonassen - Keith Jonassen On Bel	nalf of: John Pearson, ISO New England, Inc., 2; - Keith Jonassen	
Answer	No	
Document Name		
Comment		

	the Commission Determination states that "NERC may determine whether contingencies P1 through P7 eliability Standard, or whether a new set of contingencies should be developed."
	from the Standard as the FERC Order does not require the inclusion of P2, P4, or P7 contingency have a higher likelihood of occurrence and should remain within the Standard.
Likes 0	
Dislikes 0	
Response	
Constantin Chitescu - Ontario Power Ge	neration Inc 5
Answer	No
Document Name	
Comment	
OPG supports NPCC Regional Standards (We see that R10 requires a significant amo	Committee's comments: unt of work without providing additional system reliability.
	· · · · · · · · · · · · · · · · · · ·
Likes 0	
Dislikes 0	
Response	
	Behalf of: Greg Davis, Georgia Transmission Corporation, 1; - Stephen Stafford
Answer	No
Document Name	
Comment	
documenting possible mitigations e than reliability-based as the require reliability. Developing possible acti reliability as the result. The exclusion of the P3 & P6 event should likewise be excluded so the pursue a methodology developed by	of R10 is ambiguous. It is understood that P2, P4, P5, & P7 events tend to be lower probability but very 5 years for these low-probability events in an extreme weather condition appears more administrative ment is currently written. Reliability Standards should be performance based and impact ons where mitigation is not required just adds more administrative burden to the PC/TP with no benefit to a from these requirements is appropriate. The SDT should consider if specific P2, P4, P5, & P7 events standard only addresses those events that must be evaluated and mitigated. A better option would be to by the PC/TP that is relevant to the benchmark event they are studying as opposed to rigidly referring to not be applicable to the analysis to be performed
Likes 0	
Dislikes 0	
Response	

Rebika Yitna - Rebika Yitna On Behalf of	f: David Weekley, MEAG Power, 3, 1; Roger Brand, MEAG Power, 3, 1; - Rebika Yitna	
Answer	No	
Document Name		
Comment		
Technical rationale should be assessed for	justifying the removal of P2, P4, and especially P7 as well.	
Likes 0		
Dislikes 0		
Response		
Donna Wood - Tri-State G and T Associa	ntion, Inc 1	
Answer	No	
Document Name		
Comment		
Tri-State supports the comments submitted	by the MRO NSRF.	
Likes 0		
Dislikes 0		
Response		
Matt Lewis - Lower Colorado River Auth	ority - 1	
Answer	No	
Document Name		
Comment		
LCRA TSC would like see more clarification developing CAPs?	n on the difference between R9 and R10. How is "evaluate and document possible actions" different then	
Likes 0		
Dislikes 0		
Response		

Hillary Creurer - Allete - Minnesota Power, Inc. - 1

Answer	No
Document Name	
Comment	
Minnesota Power supports MRO's NERC S	Standards Review Forum's (NSRF) comments.
Likes 0	
Dislikes 0	
Response	
Teresa Krabe - Lower Colorado River Au	ithority - 5
Answer	No
Document Name	
Comment	
LCRA would like see more clarification on t developing CAPs?	he difference between R9 and R10. How is "evaluate and document possible actions" different then
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC	
Answer	No
Document Name	
Comment	
WECC suggests the DT consider "CAP devappear to support reliability.	velopment" versus "document possible actions". Possible actions could include "do nothing" which does not
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA	A - Not Applicable - NA - Not Applicable
Answer	No

Document Name		
Comment		
EEI does not object to the intent of Requirement 10, but we do not agree that entities should be made accountable for developing actions for categories P2 through P7 because no corrective actions are required under this Reliability Standard beyond categories P0 and P1. It is sufficient for the responsible entity to conduct the assessments but developing and retaining documentation for mitigations for categories P2 through P7 represents an unnecessary administrative burden and provides no reliability benefit.		
possible actions for Categories P0 and P1.	in Requirement R1, shall evaluate the Contingency Categories identified in Table 1.1 and document For Categories P2 through P7, document these categories were analyzed but it is not required to those assessments. Assessments shall be as follows: [Violation Risk Factor: Lower] [Time Horizon:	
	possible actions are designed to mitigate the consequences and adverse impacts when the study results y, uncontrolled separation, or Cascading for the Table 1 P2, P4, and P7 Contingencies.	
10.2. Sensitivity cases where possible accontingencies	tions are designed to mitigate failures to meet the performance requirements in Table 1 for category P0, P1,	
Likes 0		
Dislikes 0		
Response		
	aura Somak, Salt River Project, 3, 6, 5, 1; Mathew Weber, Salt River Project, 3, 6, 5, 1; Thomas nothy Singh, Salt River Project, 3, 6, 5, 1; - Israel Perez	
Answer	No	
Document Name		
Comment		
Define Table 1 in requirement R10.1 and R10.2. Need to clarify or re write what needs to be done for requirement R10.		
Likes 0		
Dislikes 0		
Response		
Devin Shines - PPL - Louisville Gas and I	Electric Co 1,3,5,6 - SERC,RF	
Answer	No	
Document Name		
Comment		

analyzed do not require CAPs. It is suggest	R10 pose a significant burden and produce no significant reliability benefit. Most of the contingencies ted to remove P2, P4, and P7 from Part 10.2. This lessens the analysis burden while still ensuring sensitivity hat require CAPs in the benchmark planning cases. This still accomplishes the FERC directives requiring the
Likes 0	
Dislikes 0	
Response	
Helen Lainis - Independent Electricity Sy	rstem Operator - 2
Answer	No
Document Name	
Comment	
We support NPCC TFCP 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	No
Document Name	
Comment	
Southern Company appreciates the remova well.	al of P5. Technical rationale should be assessed for justifying the removal of P2, P4, and especially P7 as
Likes 0	
Dislikes 0	
Response	
Junji Yamaguchi - Hydro-Quebec (HQ) -	5
Answer	No
Document Name	
Comment	

We see that R10 requires a significant amo	unt of work without providing additional system reliability. We suggest that this requirement be removed.
Likes 0	
Dislikes 0	
Response	
Kevin Conway - Western Power Pool - 4	
Answer	No
Document Name	
Comment	
Add in language that had been removed fro	m previous version "reduce the likelihood or mitigate the consequences" to align with TPL-001.
Likes 0	
Dislikes 0	
Response	
Chris Wagner - Santee Cooper - 1, Group	Name Santee Cooper
Answer	No
Document Name	
Comment	
Santee Cooper would like to see the langual long term planning horizon.	age align more with TPL-001-5 and is concerned about the additional work and the benefit of the analysis to
Likes 0	
Dislikes 0	
Response	
Amy Wilke - American Transmission Co	mpany, LLC - 1
Answer	No
Document Name	
Comment	

ATC supports the MRO NSRF comments.	
Likes 0	
Dislikes 0	
Response	
Hayden Maples - Hayden Maples On Behalf of: Jeremy Harris, Evergy, 3, 5, 1, 6; Kevin Frick, Evergy, 3, 5, 1, 6; Marcus Moor, Evergy, 3, 5, 1, 6; Tiffany Lake, Evergy, 3, 5, 1, 6; - Hayden Maples	
Answer	No
Document Name	
Comment	
Evergy supports and incorporates by refere Standards Review Forum (MRO NSRF) on	ence the comments of the Edison Electric Institute (EEI) and the Midwest Reliability Organization's NERC question 6
Likes 0	
Dislikes 0	
Response	
Donald Lock - Talen Generation, LLC - 5	
Answer	No
Document Name	
Comment	
Documenting possible actions is insufficien	t; responsible entities must do something.
Likes 0	
Dislikes 0	
Response	
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Kevin Smith, Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD and BANC	
Answer	No
Document Name	

Comment		
SMUD supports the comments submitted b	y EEI.	
Likes 0		
Dislikes 0		
Response		
Robert Jones - Seattle City Light - 1,3,4,5	5,6	
Answer	No	
Document Name		
Comment		
Add in language that had been removed from previous version "reduce the likelihood or mitigate the consequences" to align with TPL-001.		
Likes 0		
Dislikes 0		
Response		
Broc Bruton - Broc Bruton On Behalf of:	Byron Booker, Oncor Electric Delivery, 1; - Broc Bruton	
Answer	No	
Document Name		
Comment		
Oncor disagrees with R10 as well. The requ	uirement does not give TPs the ability to create CAPs for the listed contingencies.	
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 NPCC RSC	
Answer	No	
Document Name		
Comment		

We see that R10 requires a significant amount of work without providing additional system reliability.		
Likes 0		
Dislikes 0		
Response		
Anna Martinson - MRO - 1,2,3,4,5,6 - MRO	D, Group Name MRO Group	
Answer	No	
Document Name		
Comment		
Part 10.1. MRO NSRF requests clarification regarding the objective of TPL-008-1, Part 10.1. What results are to be achieved pursuant to TPL-008-1, Requirement 10, Part 10.1 that are above and beyond the results achieved pursuant to TPL-001-5.1, Requirement 2, Parts 2.1, 2.2 and 2.7? The two provisions seem to be very similar and duplicative.		
10.1. Benchmark planning cases where possible actions are designed to mitigate the consequences and adverse impacts when the study results indicate the System could result in instability, uncontrolled separation, or Cascading for the Table 1 P2, P4, and P7 Contingencies. See also our response to Question #5.		
Likes 0		
Dislikes 0		
Response		
Zahid Qayyum - New York Power Authority - 5		
Answer	No	
Document Name		
Comment		
NYPA suggest SDT should consider align the language in R10 with that of TPL 001 5.1 for consistency. For instance, SDT can consider retaining the term "reduce the likelihood" as used in TPL 001-5.1		
Likes 0		
Dislikes 0		
Response		

Fon Hiew - NB Power Corporation - New Brunswick Power Transmission Corporation - 5		
Answer	No	
Document Name		
Comment		
We see that R10 requires a significant amo	ount of work without providing additional system reliability.	
Likes 0		
Dislikes 0		
Response		
Ronald Hoover - Bonneville Power Admi	nistration - 1,3,5,6 - WECC	
Answer	No	
Document Name		
Comment		
BPA recommends that R10.1 and R10.2 be modified to include "to reduce the likelihood or mitigate the consequences" to align with TPL-001. R10.1. Benchmark planning cases where possible actions are designed to reduce the likelihood or mitigate the consequences and adverse impacts when the study results indicate the System could result in instability, uncontrolled separation, or Cascading for the Table 1 P2, P4, and P7 Contingencies. R10.2. Sensitivity cases where possible actions are designed to reduce the likelihood or mitigate failures to meet the performance requirements in Table 1 for category P0, P1, P2, P4, and P7 Contingencies.		
Likes 0		
Dislikes 0		
Response		
Duane Franke - Manitoba Hydro - 1,3,5,6 - MRO		
Answer	No	
Document Name		
Comment		
Please refer to our response for comments 3 and 4.		
Likes 0		

Dislikes 0		
Response		
Joyce Gundry - Public Utility District No.	1 of Chelan County - 3, Group Name CHPD	
Answer	No	
Document Name		
Comment		
CHPD agrees with Western Power Pool's (WPP) comment.	
Likes 1	Jennie Wike, N/A, Wike Jennie	
Dislikes 0		
Response		
Lidija Efremova - Lidija Efremova On Be	half of: Emma Halilovic, Hydro One Networks, Inc., 1; - Lidija Efremova	
Answer	No	
Document Name		
Comment		
Comments: We see that R10 requires a significant amount of effort and work without any assurance of providing additional system reliability. We suggest that this requirement and associated testing requirements in R9 be removed.		
Likes 0		
Dislikes 0		
Response		
Jennifer Weber - Tennessee Valley Authority - 1,3,5,6 - SERC		
Answer	No	
Document Name		
Comment		

(R10 and R10.1) It is recommended that the requirement for documenting "possible actions" should preserve the right to identify only a single action (i.e., "possible action(s)") that would best mitigate the consequence or adverse impact based on the analysis. Otherwise, due to the complex and comprehensive nature of the analysis and mitigation option review, we believe attempting to document less reliable or less effective solutions in a way that is clear, so as to avoid any confusion, would be an inefficient and ineffective task.

	red with R4.2, we do not agree that an increasingly more extreme scenario for purposes of a sensitivity for longer term planning horizons when generation additions and retirements, along with transmission as to be deployed are less detailed.
Likes 0	
Dislikes 0	
Response	
Chelsea Loomis - Western Power Pool -	NA - Not Applicable - WECC, Group Name WPP Consortium of Engineers
Answer	No
Document Name	
Comment	
Add in language that had been removed fro	om previous version "reduce the likelihood or mitigate the consequences" to align with TPL-001.
Likes 0	
Dislikes 0	
Response	
Alyssia Rhoads - Public Utility District N	o. 1 of Snohomish County - 1
Answer	No
Document Name	
Comment	
Add in language that was removed from pre	evious verson 'reduce the likelihood or mitigate the consequences" to align with TPL-001-5.
Likes 2	Snohomish County PUD No. 1, 3, Chaney Holly; Jennie Wike, N/A, Wike Jennie
Dislikes 0	
Response	
Jeffrey Streifling - NB Power Corporation	n - 1
Answer	No
Document Name	
Comment	
We see that R10 requires a significant amo	unt of work without providing additional system reliability.

Likes 0		
Dislikes 0		
Response		
Chantal Mazza - Chantal Mazza On Beha	lf of: Nicolas Turcotte, Hydro-Quebec (HQ), 1, 5; - Chantal Mazza	
Answer	No	
Document Name		
Comment		
We see that R10 requires a significant amo	ount of work without providing additional system reliability. We suggest that this requirement be removed.	
Likes 0		
Dislikes 0		
Response		
Usama Tahir - Seminole Electric Cooper	ative, Inc 3	
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Gary Trezza - Long Island Power Authority - 1 - NPCC		
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Robert Blackney - Edison International - Southern California Edison Company - 1		
Answer	Yes	
Document Name		
Comment		
See comments submitted by Edison Electric Institute		
Likes 0		
Dislikes 0		
Response		
Kinte Whitehead - Exelon - 3		
Answer	Yes	
Document Name		
Comment		
Exelon supports the comments submitted b	y the EEI for this question.	
Likes 0		
Dislikes 0		
Response		
Selene Willis - Edison International - Southern California Edison Company - 5		
Answer	Yes	
Document Name		
Comment		
Please see comments from EEI		
Likes 0		
Dislikes 0		
Response		
Richard Vendetti - NextEra Energy - 5		
Answer	Yes	

Document Name		
Comment		
NextEra supports EEI's comments		
EEI does not object to the intent of Requirement 10, but we do not agree that entities should be made accountable for developing actions for categories P2 through P7 because no corrective actions are required under this Reliability Standard beyond categories P0 and P1. It is sufficient for the responsible entity to conduct the assessments but developing and retaining documentation for mitigations for categories P2 through P7 represents an unnecessary administrative burden and provides no reliability benefit.		
R10. Each responsible entity, as identified in Requirement R1, shall evaluate the Contingency Categories identified in Table 1.1 and document possible actions for Categories P0 and P1. For Categories P2 through P7, document these categories were analyzed but it is not required to develop mitigations or retain records of those assessments. Assessments shall be as follows the following: [Violation Risk Factor: Lower] [Time Horizon: Longterm Planning]		
	ossible actions are designed to mitigate the consequences and adverse impacts when the study results , uncontrolled separation, or Cascading for the Table 1 P2, P4, and P7 Contingencies.	
10.2. Sensitivity cases where possible actions are designed to mitigate failures to meet the performance requirements in Table 1 for category P0, P1, P2, P4, and P7 Contingencies		
Likes 0		
Dislikes 0		
Response		
Rachel Schuldt - Black Hills Corporation - 6, Group Name Black Hills Corporation - All Segments		
Answer	Yes	
Document Name		
Comment		
Black Hills Corporation is aligned with the comments made by EEI, which are in italics below. 'EEI does not object to the intent of Requirement 10, but we do not agree that entities should be made accountable for developing actions for categories P2 through P7 because no corrective actions are required under this Reliability Standard beyond categories P0 and P1. It is sufficient for the responsible entity to conduct the assessments but developing and retaining documentation for mitigations for categories P2 through P7 represents an unnecessary administrative burden and provides no reliability benefit.		
R10. Each responsible entity, as identified in Requirement R1, shall evaluate the Contingency Categories identified in Table 1.1 and document possible actions for Categories P0 and P1. For Categories P2 through P7, document these categories were analyzed but it is not required to develop mitigations or retain records of those assessments. Assessments shall be as follows (remove: the following): [Violation Risk Factor: Lower] [Time Horizon: Longterm Planning]		

	possible actions are designed to mitigate the consequences and adverse impacts when the study results by, uncontrolled separation, or Cascading for the Table 1 P2, P4, and P7 Contingencies.
10.2. Sensitivity cases where possible ad P1 Contingencies'	ctions are designed to mitigate failures to meet the performance requirements in Table 1 for category P0 and
Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Puk	olic Service Co 1
Answer	Yes
Document Name	
Comment	
None	
Likes 0	
Dislikes 0	
Response	
Daniel Gacek - Exelon - 1	
Answer	Yes
Document Name	
Comment	
Exelon supports the comments submitted b	y the EEI for this question.
Likes 0	
Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy C	Corporation - 4, Group Name FE Voter
Answer	Yes
Document Name	
Comment	

FirstEnergy supports EEI's comments which state: EEI does not object to the intent of Requirement 10, but we do not agree that entities should be made accountable for developing actions for categories P2 through P7 because no corrective actions are required under this Reliability Standard beyond categories P0 and P1. It is sufficient for the responsible entity to conduct the assessments but developing and retaining documentation for mitigations for categories P2 through P7 represents an unnecessary administrative burden and provides no reliability benefit. R10. Each responsible entity, as identified in Requirement R1, shall evaluate the Contingency Categories identified in Table 1.1 and document possible actions for Categories P0 and P1. For Categories P2 through P7, document these categories were analyzed but it is not required to develop mitigations or retain records of those assessments. Assessments shall be as follows the following: [Violation Risk Factor: Lower] [Time Horizon: Long term Planning] Benchmark planning cases where possible actions are designed to mitigate the consequences and adverse impacts when the study results 10.1. indicate the System could result in instability, uncontrolled separation, or Cascading for the Table 1 P2, P4, and P7 Contingencies. Sensitivity cases where possible actions are designed to mitigate failures to meet the performance requirements in Table 1 for category P0, P1, 10.2. P2, P4, and P7 Contingencies Likes 0 Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF **Answer** Yes **Document Name** Comment Duke Energy agrees with and recommends implementation of EEI comments. Likes 0 Dislikes 0 Response Eric Sutlief - CMS Energy - Consumers Energy Company - 3,4,5 - RF Yes **Answer Document Name** Comment

Recommend updating table references to 1.2.

Likes 0	
Dislikes 0	
Response	
Apollonia Gonzales - PNM Resources - F	Public Service Company of New Mexico - 1,3,5 - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Elizabeth Davis - Elizabeth Davis On Bel	nalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kennedy Meier - Electric Reliability Cour	ncil of Texas, Inc 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Bobbi Welch - Midcontinent ISO, Inc. - 2, Group Name ISO/RTO Council Standards Review Committee (SRC) Project 2023-07 TPL-008-1 Draft #2

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ben Hammer - Western Area Power Adm	inistration - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Shannon Mickens Or SPP RTO	n Behalf of: Joshua Phillips, Southwest Power Pool, Inc. (RTO), 2; - Shannon Mickens, Group Name
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michele Shafer - New York State Electric & Gas (NYSEG) - 6	
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Greg Sorenson - Greg Sorenson On Bel	nalf of: Tyler Schwendiman, ReliabilityFirst , 10; - Greg Sorenson
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Carver Powers - Utility Services, Inc 4	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Danielle Moskop - Danielle Moskop On I	Behalf of: David Jendras Sr, Ameren - Ameren Services, 3, 6, 1; - Danielle Moskop
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michele Tondalo - United Illuminating Co	o 1

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mike Magruder - Avista - Avista Corporat	tion - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Rachel Coyne - Texas Reliability Entity, Inc 10	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Robert Follini - Avista - Avista Corporation	
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0		
Response		
Barbara Marion - Dominion - Dominion R	Resources, Inc 5, Group Name Dominion	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Sean Bodkin - Dominion - Dominion Res	ources, Inc 6, Group Name Dominion	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Srikanth Chennupati - Entergy - Entergy Services, Inc 1,3,5,6 - SERC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Jessica Cordero - Unisource - Tucson Electric Power Co 1		
Answer	Yes	

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thomas Foltz - AEP - 5	
Answer	Yes
Answer Document Name	Yes
	Yes
Document Name	Yes
Document Name	Yes
Document Name Comment	Yes
Comment Name Likes 0	Yes

7. The DT split out Table 1 into parts for better readability. Do you agree with the updated layout of Table 1? If you do not agree, please provide your recommendation and technical justification.

Long Island Power Authority	
Answer	No
Document Name	(if an attachment is provided by submitter)

Comment

- a) The updated layout of Table 1 is helpful. Note however, that the text of applicable requirements which reference "Table 1" should be modified to reflect reference to either "Table 1.1", "Table 1.2" or "Table 1.3".
- b) We observe that Table 1.1 (Contingency Category) references a Footnote 2. Footnote 2 states applicable contingencies would be Facilities 200 kV and above.

This is an important distinction, and we recommend that that this detail be included within the actual text of Requirement #7.

c) Regarding Footnote 2b, the wording of the text is confusing.

We would recommend to edit the wording of Footnote 2b to be more consistent with TPL-001-5.1, footnote 11, such as:

"For P7 planning events that have at least one 200 kV voltage and above Facility that shares a common structure for at least 1 mile."

- d) Additionally, Footnote 2b should be referenced within Table 1.1, next to the P7 category Event item 1 (similar to TPL-001-5.1 Table 1 for P7 events).
- e) Questions Regarding footnote 2:

We interpret that footnote 2 is meant to be a filter (>200kV) or screening for identifying events that would have a more severe impact on the BES. We also interpret that as part of the Extreme Temperature Assessment, an entity is responsible for monitoring their entire BES.

Is this interpretation correct? Some elaboration within the Technical Rationale would be helpful.

Likes 0	# of other submitters who agree with these comments
Dislikes 0	# of other submitters who disagree with these comments

Response		
(Drafting team's response to submitter's comments)		
Chantal Mazza - Chantal Mazza On Beha	If of: Nicolas Turcotte, Hydro-Quebec (HQ), 1, 5; - Chantal Mazza	
Answer	No	
Document Name		
Comment		
Consistent with comments above, Table 1 s	should be updated to remove P2, P4, and P7 Contingencies.	
Likes 0		
Dislikes 0		
Response		
Jeffrey Streifling - NB Power Corporation	n - 1	
Answer	No	
Document Name		
Comment		
Consistent with comments above, Table 1 s	should be updated to remove P2, P4, and P7 Contingencies.	
Likes 0		
Dislikes 0		
Response		
Alyssia Rhoads - Public Utility District No. 1 of Snohomish County - 1		
Answer	No	
Document Name		
Comment		
The new table approach was confusing. Matching the formatting to Table 1 in TPL-001-5.1 would make good sense here.		
Likes 2	Snohomish County PUD No. 1, 3, Chaney Holly; Jennie Wike, N/A, Wike Jennie	
Dislikes 0		

Response		
Jessica Cordero - Unisource - Tucson El	ectric Power Co 1	
Answer	No	
Document Name		
Comment		
List all Planning Events from Table 1 of TPL	-001-5 but identify N/A events for TPL-008 rather than including incomplete table.	
Likes 0		
Dislikes 0		
Response		
Chelsea Loomis - Western Power Pool -	NA - Not Applicable - WECC, Group Name WPP Consortium of Engineers	
Answer	No	
Document Name		
Comment		
Matching formatting to TPL 001-5 makes go	ood sense here. Please see attached PNG for suggestion.	
Likes 0		
Dislikes 0		
Response		
Joyce Gundry - Public Utility District No. 1 of Chelan County - 3, Group Name CHPD		
Answer	No	
Document Name	Proposed Table 1.pdf	
Comment		
CHPD does not agree with the updated layon TPL-001-5 Table 1. See the "Proposed Table 1.	out of Table 1. CHPD recommends combining Table 1.1 and Table 1.2 to keep things more in the flavor of ole 1" attachment for the direction of what CHPD would recommend.	

1) Footnote 1 in Table 1.3 (related to faults) does not appear to have an item referencing it in the current Table 1.1 or 1.2 and; 2) for the stability performance requirement, there is an additional line "The System shall remain stable" for the P0 event; this line does not appear to be coming from any

Additionally:

	scussed elsewhere. It is recommended this line be removed and the P0 requirement for stability is the same ontrolled separation, or Cascading, as defined in Requirement R6, shall not occur.".
Likes 1	Jennie Wike, N/A, Wike Jennie
Dislikes 0	
Response	
Gary Trezza - Long Island Power Author	rity - 1 - NPCC
Answer	No
Document Name	
Comment	
a) The updated layout of Table 1 is helpful reflect reference to either "Table 1.1", "Tab	Note however, that the text of applicable requirements which reference "Table 1" should be modified to le 1.2" or "Table 1.3".
b) We observe that Table 1.1 (Contingency and above.	Category) references a Footnote 2. Footnote 2 states applicable contingencies would be Facilities 200 kV
This is an important distinction, and we red	commend that that this detail be included within the actual text of Requirement #7.
c) Regarding Footnote 2b, the wording of t	he text is confusing.
We would recommend to edit the wording	of Footnote 2b to be more consistent with TPL-001-5.1, footnote 11, such as:
"For P7 planning events that have at least	one 200 kV voltage and above Facility that shares a common structure for at least 1 mile."
d) Additionally, Footnote 2b should be refe	renced within Table 1.1, next to the P7 category Event item 1 (similar to TPL-001-5.1 Table 1 for P7 events).
e) Questions Regarding footnote 2:	
	a filter (>200kV) or screening for identifying events that would have a more severe impact on the BES. We emperature Assessment, an entity is responsible for monitoring their entire BES.
Is this interpretation correct? Some elabora	ation within the Technical Rationale would be helpful.
Likes 0	
Dislikes 0	
Response	
Ronald Hoover - Bonneville Power Adm	
Answer	No
Document Name	WPP TPL-008 Table 1 Reference.pdf
Comment	

BPA agrees with WPP Consortium of Engineers comments to match the format to TPL-001-5. BPA has attached a copy of the table referenced by WPP.		
Likes 0		
Dislikes 0		
Response		
Fon Hiew - NB Power Corporation - New	Brunswick Power Transmission Corporation - 5	
Answer	No	
Document Name		
Comment		
Consistent with comments above, Table 1 s	should be updated to remove P2, P4, and P7 Contingencies.	
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 NPCC RSC	
Answer	No	
Document Name		
Comment		
Consistent with comments above, Table 1 should be updated to remove P2, P4, and P7 Contingencies.		
Likes 0		
Dislikes 0		
Response		
Broc Bruton - Broc Bruton On Behalf of:	Byron Booker, Oncor Electric Delivery, 1; - Broc Bruton	
Answer	No	
Document Name		
Comment		

Table 1 should be updated to remove P2, P4, and P7 Contingencies. Oncor also agrees that matching the formatting of Table 1 to TPL 001-5 is appropriate.		
Likes 0		
Dislikes 0		
Response		
Robert Jones - Seattle City Light - 1,3,4,5,6		
Answer	No	
Document Name		
Comment		
The table should match formatting to TPL 001-5.		
Likes 0		
Dislikes 0		
Response		
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Kevin Smith, Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD and BANC		
Answer	No	
Document Name		
Comment		
SMUD supports the comments submitted by the MRO NSRF.		
Likes 0		
Dislikes 0		
Response		
Robert Follini - Avista - Avista Corporati	on - 3	
Answer	No	
Document Name	2023-07 comment7.png	
Comment		

Avista offers the following suggested comment for consideration: Given the intended scope of the project and the technical differences between TPL-001-5, we suggest maintaining consistency between these standards wherever possible to reduce confusion. To reduce confusion and create consistency, match formatting to TPL-001-5 using suggested table formatting below.		
Likes 0		
Dislikes 0		
Response		
Kevin Conway - Western Power Pool - 4		
Answer	No	
Document Name		
Comment		
Matching formatting to TPL 001-5 makes go	ood sense here.	
Likes 0		
Dislikes 0		
Response		
Junji Yamaguchi - Hydro-Quebec (HQ) - 5		
Answer	No	
Document Name		
Comment		
Comments: Consistent with comments above, Table 1 should be updated to remove P2, P4, and P7 Contingencies.		
Likes 0		
Dislikes 0		
Response		
Helen Lainis - Independent Electricity Sy	stem Operator - 2	

Answer	No		
Document Name			
Comment			
We support NPCC TFCP comment			
Likes 0			
Dislikes 0			
Response			
Devin Shines - PPL - Louisville Gas and	Electric Co 1,3,5,6 - SERC,RF		
Answer	No		
Document Name	TPL-008-1-proposed-Table-1.docx		
Comment			
We appreciate the work of the DT to increas	We appreciate the work of the DT to increase readability of Table 1. We recommend changes in the attached document to improve upon the revisions.		
Likes 0			
Dislikes 0			
Response			
Mike Magruder - Avista - Avista Corporat	tion - 1		
Answer	No		
Document Name	Table Example.png		
Comment			
Given the intended scope of the project and the technical differences between TPL-001-5, we suggest maintaining consistency between these standards wherever possible to reduce confusion. To reduce confusion and create consistency, match formatting to TPL-001-5 using suggested table formatting attached.			
Likes 0			
Dislikes 0			
Response			
Stephen Stafford - Stephen Stafford On I	Behalf of: Greg Davis, Georgia Transmission Corporation, 1; - Stephen Stafford		

Answer	No	
Document Name		
Comment		
Performance criteria should be included in the table.		
Likes 0		
Dislikes 0		
Response		
Constantin Chitescu - Ontario Power Ge	neration Inc 5	
Answer	No	
Document Name		
Comment		
OPG supports NPCC Regional Standards Committee's comments: Consistent with comments above, Table 1 should be updated to remove P2, P4, and P7 Contingencies.		
Likes 0		
Dislikes 0		
Response		
Diana Aguas - CenterPoint Energy Hous	ton Electric, LLC - 1 - Texas RE	
Answer	No	
Document Name		
Comment		
Please refer to Question 1 comments.		
Likes 0		
Dislikes 0		
Response		
John Brewer - National Energy Technology Laboratory - 9 - NA - Not Applicable		
Answer	No	

Document Name	
Comment	
	Table 1.3. If the Table 1 split is selected for the final version of the standard, please move the footnotes after Table 1.3 furthermore, check the footnote numbers. Footnote #1 is missing as a reference in the tables 1.1 and 1.2.
Likes 0	
Dislikes 0	
Response	
Usama Tahir - Seminole Electric Cooper	ative, Inc 3
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Eric Sutlief - CMS Energy - Consumers E	Energy Company - 3,4,5 - RF
Answer	Yes
Document Name	
Comment	
references in requirements should reference	e table 1.1 or 1.2 instead of only table 1
Likes 0	
Dislikes 0	
Response	
Srikanth Chennupati - Entergy - Entergy	Services, Inc 1,3,5,6 - SERC
Answer	Yes
Document Name	
Comment	

Footnote 1 is missing from table 1.1 & 1.2 and is defined in table 1.3.		
Likes 0		
Dislikes 0		
Response		
Duane Franke - Manitoba Hydro - 1,3,5,6	- MRO	
Answer	Yes	
Document Name		
Comment		
Please refer to appropriate table number ei	ther Table 1.1 or Table 1.2 in the requirements.	
Likes 0		
Dislikes 0		
Response		
Andy Thomas - Duke Energy - 1,3,5,6 - S	ERC,RF	
Answer	Yes	
Document Name		
Comment		
Duke Energy agrees with and recommends implementation of EEI comments.		
Likes 0		
Dislikes 0		
Response		
Mark Garza - FirstEnergy - FirstEnergy C	Corporation - 4, Group Name FE Voter	
Answer	Yes	
Document Name		
Comment		
No additional comments.		

ikes 0		
Dislikes 0		
Response		
Anna Martinson - MRO - 1,2,3,4,5,6 - MRC	D, Group Name MRO Group	
Answer	Yes	
Oocument Name		
Comment		
MRO NSRF supports the format for Table 1	; however, has the following questions and comments.	
Does Footnote 2 in Table 1.3 (200kV and g	reater) apply everywhere? The MRO NSRF requests the SDT clarify this in the standard.	
Steady state performance requirements have stability requirements for P2, P4, P7. Voltage collapse (cascading) can be identified, but not instability or incontrolled separation. This would require a dynamic study.		
The MRO NSRF disagrees with the Table 1	reference to extreme conditions in a base model.	
s there an opportunity for TPL-008-1, Table 1.1 to reference TPL-001-5.1 instead? Only TPL-008-1, Table 1.2 shows information specific and unique to TPL-008.		
ikes 1	Scott Brame, N/A, Brame Scott	
Dislikes 0		
Response		
Daniel Gacek - Exelon - 1		
Answer	Yes	
Document Name		
Comment		
Exelon agrees with the updated layout of Table 1. However, in Table 1.2, we believe the sentence "The System shall remain stable." should either be emoved or added to P1 Stability Performance Requirements so both P0 and P1 are consistent. Additionally, we noticed that footnote 1 in Table 1.3 is not referenced in any of the tables.		
Additionally, Exelon supports the comments submitted by the EEI for this question.		
ikes 0		
Dislikes 0		
Response		

Daniela Atanasovski - APS - Arizona Pub	olic Service Co 1
Answer	Yes
Document Name	
Comment	
None	
Likes 0	
Dislikes 0	
Response	
Rachel Schuldt - Black Hills Corporation	ı - 6, Group Name Black Hills Corporation - All Segments
Answer	Yes
Document Name	
Comment	
Black Hills Corporation has no concerns with	th the updated layout of Table 1.
Likes 0	
Dislikes 0	
Response	
Hayden Maples - Hayden Maples On Ber Tiffany Lake, Evergy, 3, 5, 1, 6; - Hayden	nalf of: Jeremy Harris, Evergy, 3, 5, 1, 6; Kevin Frick, Evergy, 3, 5, 1, 6; Marcus Moor, Evergy, 3, 5, 1, 6; Maples
Answer	Yes
Document Name	
Comment	
Evergy supports and incorporates by refere Standards Review Forum (MRO NSRF) on	ence the comments of the Edison Electric Institute (EEI) and the Midwest Reliability Organization's NERC question 7
Likes 0	
Dislikes 0	
Response	
Amy Wilke - American Transmission Co	mpany, LLC - 1

Answer	Yes
Document Name	
Comment	
Footnote 1 does not appear to be linked to	'Fault Type' in Table 1.1.
ATC supports the MRO NSRF comments.	
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	
Table 1.2 provides much better visualization Please clarify the meaning of "The System s	n and clarification of expectations. shall remain stable", as well as the distinction between the use of "System" and "within an Interconnection".
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA	A - Not Applicable - NA - Not Applicable
Answer	Yes
Document Name	
Comment	
EEI does not have any concerns with the re	evised labelling of the Tables but references to the tables should also be updated for clarity.
Likes 0	
Dislikes 0	
Response	

Kinte Whitehead - Exelon - 3

Answer	Yes	
Document Name		
Comment		
Exelon agrees with the updated layout of Table 1. However, in Table 1.2, we believe the sentence "The System shall remain stable." should either be removed or added to P1 Stability Performance Requirements so both P0 and P1 are consistent. Additionally, we noticed that footnote 1 in Table 1.3 is not referenced in any of the tables. Additionally, Exelon supports the comments submitted by the EEI for this question.		
Likes 0		
Dislikes 0		
Response		
Keith Jonassen - Keith Jonassen On Bel	half of: John Pearson, ISO New England, Inc., 2; - Keith Jonassen	
Answer	Yes	
Document Name		
Comment		
ISO-NE is satisfied with the format of Table 1 with the recommendation of removing P2 and greater contingencies as FERC Order 896 Paragraph 113 as part of the Commission Determination states that "NERC may determine whether contingencies P1 through P7 should also apply to the new or modified Reliability Standard, or whether a new set of contingencies should be developed.".		
The FERC Order does not require the inclusion of P2, P4, or P7 contingency events. The P0 and P1 contingency events have a higher likelihood of occurrence and should remain within the Standard.		
ISO-NE recommends removing the P2, P4 and P7 events from the Table or eliminating the need to perform analysis on those events from the Requirements.		
Likes 0		
Dislikes 0		
Response		
Bobbi Welch - Midcontinent ISO, Inc 2,	Group Name ISO/RTO Council Standards Review Committee (SRC) Project 2023-07 TPL-008-1 Draft #2	
Answer	Yes	
Document Name		
Comment		

The SRC supports the Table 1 format. Is the shows information specific and unique to T	ere an opportunity for TPL-008-1, Table 1.1 to reference TPL-001-5.1 instead? Only TPL-008-1, Table 1.2 PL-008.
Steady state performance requirements ha uncontrolled separation. This would require	ve stability requirements for P2, P4, P7. Voltage collapse (cascading) can be identified, but not instability or a dynamic study.
	e stability performance requirements for P0 events? Currently it says that the system shall remain stable, and cascading shall not occur, but how would those things occur for a P0 event?
Likes 0	
Dislikes 0	
Response	
Bob Cardle - Bob Cardle On Behalf of: N 3, 1, 5; Tyler Brun, Pacific Gas and Elect	larco Rios, Pacific Gas and Electric Company, 3, 1, 5; Sandra Ellis, Pacific Gas and Electric Company, ric Company, 3, 1, 5; - Bob Cardle
Answer	Yes
Document Name	
Comment	
PGAE agrees with the updated layout of Ta	able 1.
Likes 0	
Dislikes 0	
Response	
Kennedy Meier - Electric Reliability Cou	ncil of Texas, Inc 2
Answer	Yes
Document Name	
Comment	
ERCOT joins the comments submitted by t	he IRC SRC and adopts them as its own.
Likes 0	
Dislikes 0	
Response	
Elizabeth Davis - Elizabeth Davis On Bel	nalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis
Answer	Yes

Document Name	
Comment	
PJM supports the IRC SRC comments.	
Likes 0	
Dislikes 0	
Response	
Thomas Foltz - AEP - 5	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jennifer Weber - Tennessee Valley Auth	ority - 1,3,5,6 - SERC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Lidija Efremova - Lidija Efremova On Behalf of: Emma Halilovic, Hydro One Networks, Inc., 1; - Lidija Efremova	
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0	
Response	
Zahid Qayyum - New York Power Author	ity - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Sean Bodkin - Dominion - Dominion Res	ources, Inc 6, Group Name Dominion
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Donald Lock - Talen Generation, LLC - 5	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Barbara Marion - Dominion - Dominion R	Resources, Inc 5, Group Name Dominion
Answer	Yes

Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Chris Wagner - Santee Cooper - 1, Group	o Name Santee Cooper	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Michele Tondalo - United Illuminating Co	o 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Israel Perez - Israel Perez On Behalf of: Laura Somak, Salt River Project, 3, 6, 5, 1; Mathew Weber, Salt River Project, 3, 6, 5, 1; Thomas Johnson, Salt River Project, 3, 6, 5, 1; Timothy Singh, Salt River Project, 3, 6, 5, 1; - Israel Perez		
Answer	Yes	
Document Name		
Comment		
Likes 0		

Dislikes 0		
Response		
Danielle Moskop - Danielle Moskop On E	Behalf of: David Jendras Sr, Ameren - Ameren Services, 3, 6, 1; - Danielle Moskop	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Teresa Krabe - Lower Colorado River Au	ithority - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Hillary Creurer - Allete - Minnesota Power		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Carver Powers - Utility Services, Inc 4		
Answer	Yes	

Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Greg Sorenson - Greg Sorenson On Beh	alf of: Tyler Schwendiman, ReliabilityFirst , 10; - Greg Sorenson	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Matt Lewis - Lower Colorado River Author	ority - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Donna Wood - Tri-State G and T Association, Inc 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		

Response	
Michele Shafer - New York State Electric	& Gas (NYSEG) - 6
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Rebika Yitna - Rebika Yitna On Behalf of	f: David Weekley, MEAG Power, 3, 1; Roger Brand, MEAG Power, 3, 1; - Rebika Yitna
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ben Hammer - Western Area Power Adm	ninistration - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Apollonia Gonzales - PNM Resources - F	Public Service Company of New Mexico - 1,3,5 - WECC
Answer	Yes
Document Name	

Comment	
Likes 0	
Dislikes 0	
Response	
Richard Vendetti - NextEra Energy - 5	
Answer	
Document Name	
Comment	
NetEra supports EEI's comments	
	evised labelling of the Tables but references to the tables should also be updated for clarity.
·	Tiese labelling of the Tables battered to the tables enough also be apared for clarity.
Likes 0	
Dislikes 0	
Response	
Rachel Coyne - Texas Reliability Entity, I	nc 10
Answer	
Document Name	
Comment	
	the standard refers to Table 1 and it is not clear which table is referenced (Table 1.1, Table 1.2 or Table sider making changes to reference the appropriate Table in each of the requirements. Texas RE also arried over onto each page of the tables.
Likes 0	
Dislikes 0	
Response	
Selene Willis - Edison International - Sou	ıthern California Edison Company - 5
Answer	
Document Name	
Comment	

Please see comments from EEI	
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity Co	ordinating Council - 10, Group Name WECC
Answer	
Document Name	
Comment	
N/C	
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Shannon Mickens On SPP RTO	n Behalf of: Joshua Phillips, Southwest Power Pool, Inc. (RTO), 2; - Shannon Mickens, Group Name
Answer	
Document Name	
Comment	
N/A	
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	
ITC does not have concerns with the layout	of Table 1

Likes 0	
Dislikes 0	
Response	

manner. Do you agree? If you	nodifications in TPL-008-1 provide entities with flexibility to meet the reliability objectives in a cost-effective do not agree, or if you agree but have suggestions for improvement to enable more cost-effective approaches, ndation and, if appropriate, technical or procedural justification.
Long Island Power Authority	
Answer	Yes
Document Name	(if an attachment is provided by submitter)
Comment	
Submitter's comments	
Likes 0	# of other submitters who agree with these comments
Dislikes 0	# of other submitters who disagree with these comments
Response	
(Drafting team's response t	o submitter's comments)
John Brewer - National Energy	y Technology Laboratory - 9 - NA - Not Applicable
Answer	No
Document Name	
Comment	
	in TPL-008-1 are a step in the right direction to provide entities with the flexibility to meet the reliability owever, some concerns remain.
Likes 0	
Dislikes 0	
Response	
Elizabeth Davis - Elizabeth Da	vis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis
Answer	No
Document Name	
Comment	
PJM supports the IRC SRC com	iments.
Likes 0	

Dislikes 0	
Response	
Kennedy Meier - Electric Reliability Coun	icil of Texas, Inc 2
Answer	No
Document Name	
Comment	
ERCOT joins the comments submitted by th	ne IRC SRC and adopts them as its own.
Likes 0	
Dislikes 0	
Response	
Bob Cardle - Bob Cardle On Behalf of: Ma 3, 1, 5; Tyler Brun, Pacific Gas and Electr	arco Rios, Pacific Gas and Electric Company, 3, 1, 5; Sandra Ellis, Pacific Gas and Electric Company, ric Company, 3, 1, 5; - Bob Cardle
Answer	No
Document Name	
Comment	
	onsidered a "sensitivity" case to normal Transmission Planning long-term cases. PGAE agrees that d/Transfer may be prudent, however, a discrete Requirement for assessing sensitivity cases on top of the itions do not seem cost-effective.
Likes 0	
Dislikes 0	
Response	
Bobbi Welch - Midcontinent ISO, Inc 2,	Group Name ISO/RTO Council Standards Review Committee (SRC) Project 2023-07 TPL-008-1 Draft #2
Answer	No
Document Name	
Comment	
The SRC believes TPL-008 will require four additional cases be added to the case build process: 1. Summer benchmark planning case	

2. Summer sensitivity case		
3. Winter benchmark planning case		
4. Winter sensitivity case		
The Eastern Interconnection Reliability Assessment Group (ERAG) Multi-Regional Modeling Working Group (MMWG) is likely the group that will coordinate interregional case builds for entities in the Eastern Interconnection, so these cases will be IN ADDITION TO existing case requirements. Also, extreme temperature sets will require additional data collection from generator owners through MOD-032. Once the temperature sets are known, PCs will need to issue a data request to generators requesting they provide:		
1) the unit's ability to operate at that extreme temperature, and		
2) if able, the machine's capability.		
Further, the interchange coordination through the ERAG MMWG process only considers transactions that have confirmed annual firm transmission service along the entire path from source to sink and have a firm energy contract for the resource. As these transactions do not currently include temperature, that adds an additional layer of complexity to the development of these cases.		
These are all non-trivial workload additions. For the Eastern Interconnection, the current funding of ERAG may be insufficient to accommodate model building for all the scenarios listed above. Therefore, ERAG will likely need to increase its fees to accomplish this work. In addition, PCs will likely need to hire more people to perform the studies.		
	meet the requirements of Order 896 is paramount to the success of this standard. The drafting team must don industry to ensure there is value-added for investing in these additional resources.	
Likes 0		
Dislikes 0		
Response		
Usama Tahir - Seminole Electric Coopera	ative, Inc 3	
Answer	No	
Document Name		
Comment		
The TPL-001 studies are performed every year. The TPL-008 study will be performed at a minimum every 5 years. The DT should look at an approach that will reduce redundancy and overlap in testing between the TPL-008 and TPL-001 studies in order to save costs to customers.		
Likes 0		
Dislikes 0		
Response		
Diana Aguas - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE		

Answer	No
Document Name	
Comment	
There is an associated cost impact with inci	reasing experienced Transmission Planning resources for the additional work this new standard will require.
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	
requiring steady state P0 and P1 studies. If expectations. With these changes, less over ITC also requests clarification be added in the state of th	ability benefit for the grid. ITC recommends a reduction in the required studies for the sensitivity event to only TC also recommends that a CAP is also required when the system is unable to meet performance erall study work is required and additional reliability benefit will be obtained. Seems of footnote 1. The footnote identifies normal fault clearing. Is this what is intended for the study? In the actual expected performance of the system to faults based on the weather event being studied.
Dislikes 0	
Response	
Response	
Ben Hammer - Western Area Power Adm	ninistration - 1
Answer	No No
Document Name	
Comment	
WAPA believes the TPL-008 changes will readditional data collection from generator ow generators to provide:	equire additional cases be added to the case build process. Also, extreme temperature sets will require where through MOD-032. Once the temperature sets are known, PCs will need to issue a data request to
1) the unit's ability to operate at tha	t extreme temperature, and
2) if able, the machine's capability.	

Likes 0	
Dislikes 0	
Response	
Keith Jonassen - Keith Jonassen On Bel	nalf of: John Pearson, ISO New England, Inc., 2; - Keith Jonassen
Answer	No
Document Name	
Comment	
required to be used per the current Standar and resources to conduct the studies and d	Into the perform Sensitivity Case studies in 4.2, 8.2 and 10.2. The results of Sensitivity Case studies are not d language. This seems to be strictly an administrative action, which would burden the PCs with cost of time oes not provide reliability benefit for the BES. In Table 1, however R9 only requires the development of CAPs for the P0 and P1 contingencies. ISO-NE and P1 events.
Likes 0	
Dislikes 0	
Response	
Constantin Chitescu - Ontario Power Ge	neration Inc 5
Answer	No
Document Name	
Comment	
See comments providded by NPCC Region	al Standards Committee.
Likes 0	
Dislikes 0	
Response	
Stephen Stafford - Stephen Stafford On I	Behalf of: Greg Davis, Georgia Transmission Corporation, 1; - Stephen Stafford
Answer	No
Document Name	
Comment	

plan to meet reliability goals. The i	ated but this standard falls significantly short of something that is clear and allows the PC/TP to appropriately nclusion of outside entity reviews of CAPs offers the reviewer flexibility as there are no bounds provided to entially subjected to subjective reviews that have no framework with which the PC/TP can effectively respond.
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Shannon Mickens O	n Behalf of: Joshua Phillips, Southwest Power Pool, Inc. (RTO), 2; - Shannon Mickens, Group Name
Answer	No
Document Name	
Comment	
SPP has a concern about the cost-effective	eness for this project.
From our perspective, it's unclear on how the manner	ne proposed modifications provides entities the flexibility to meet the reliability objectives in a cost effective
SPP recommends that the drafting team we better understanding of the cost effectivene	ork with NERC staff revise the SAR development to include cost effective language to help industry get a ess on implementing this standard.
Likes 0	
Dislikes 0	
Response	
Rebika Yitna - Rebika Yitna On Behalf of	: David Weekley, MEAG Power, 3, 1; Roger Brand, MEAG Power, 3, 1; - Rebika Yitna
Answer	No
Document Name	
Comment	
	edback from regulatory authorities and governing bodies, in R9.1, may be removed from the standard to nstallation of equipment is likely not as cost effective as implementing operational procedures
Likes 0	
Dislikes 0	
Response	
Donna Wood - Tri-State G and T Associa	ition, Inc 1

Answer	No	
Document Name		
Comment		
Tri-State supports the comments submitted	by the MRO NSRF.	
Likes 0		
Dislikes 0		
Response		
Hillary Creurer - Allete - Minnesota Powe	r, Inc 1	
Answer	No	
Document Name		
Comment		
Minnesota Power supports MRO's NERC Standards Review Forum's (NSRF) comments.		
Likes 0		
Dislikes 0		
Response		
Mike Magruder - Avista - Avista Corporation - 1		
Answer	No	
Document Name		
Comment		
Suggest clarification that operational proced	dures may constitute an appropriate CAP.	
Likes 0		
Dislikes 0		
Response		
Pamela Hunter - Southern Company - Southern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company		
Answer	No	
Document Name		

Comment		
outside of the direct influence of the standa	om regulatory authorities and governing bodies raises concern about how flexibility might otherwise be limite ard. It is Southern Company's recommendation that the language requiring entities to solicit feedback from s, in R9.1, should be removed from the standard.	
Likes 0		
Dislikes 0		
Response		
Junji Yamaguchi - Hydro-Quebec (HQ) -	5	
Answer	No	
Document Name		
Comment		
see comments in other sections.		
Likes 0		
Dislikes 0		
Response		
Kevin Conway - Western Power Pool - 4		
Answer	No	
Document Name		
Comment		
Requiring CAP and installation of equipmer	nt based off NERC TPL 008 is likely not as cost-effective as implementing operational procedures	
Likes 0		
Dislikes 0		
Response		
Robert Follini - Avista - Avista Corporati	on - 3	
Answer	No	
Document Name		
Comment		

Avista offers the following suggested comm Avista suggests clarification that operational	ents for consideration: Il procedures may constitute an appropriate CAP.
Likes 0	
Dislikes 0	
Response	
Amy Wilke - American Transmission Co	mpany, LLC - 1
Answer	No
Document Name	
Comment	
ATC supports the MRO NSRF comments.	
Likes 0	
Dislikes 0	
Response	
Hayden Maples - Hayden Maples On Beh Tiffany Lake, Evergy, 3, 5, 1, 6; - Hayden	alf of: Jeremy Harris, Evergy, 3, 5, 1, 6; Kevin Frick, Evergy, 3, 5, 1, 6; Marcus Moor, Evergy, 3, 5, 1, 6; Maples
Answer	No
Document Name	
Comment	
Evergy supports and incorporates by refere on question 8	nce the comments of the Midwest Reliability Organization's NERC Standards Review Forum (MRO NSRF)
Likes 0	
Dislikes 0	
Response	
Barbara Marion - Dominion - Dominion R	Resources, Inc 5, Group Name Dominion
Answer	No
Document Name	
Comment	

There are concerns over the CAP as well a	s ambiguity in R2.
Likes 0	
Dislikes 0	
Response	
Donald Lock - Talen Generation, LLC - 5	
Answer	No
Document Name	
Comment	
See our comments above	
Likes 0	
Dislikes 0	
Response	
Utility District, 3, 6, 4, 1, 5; Kevin Smith,	arles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, 3, nicipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim
Answer	No
Document Name	
Comment	
SMUD does not believe it is cost effective. require no corrective actions is unnecessar	The additional costs to maintain the necessary base cases and perform sensitivity studies of rare events that y and provides no reliability gains.
Likes 0	
Dislikes 0	
Response	
Robert Jones - Seattle City Light - 1,3,4,5	5,6
Answer	No
Document Name	
Comment	

Requiring a CAP is likely not as cost-effective as implementing operational procedures.		
Likes 0		
Dislikes 0		
Response		
Broc Bruton - Broc Bruton On Behalf of:	Byron Booker, Oncor Electric Delivery, 1; - Broc Bruton	
Answer	No	
Document Name		
Comment		
	has developed and shared the benchmark event library. Because of the complexity of the required study, the re-year process. Final implementation of the proposed standard should be five years after the ERO has	
Likes 0		
Dislikes 0		
Response		
Anna Martinson - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO Group		
Answer	No	
Document Name		
Comment		
The MRO NSRF believes TPL-008 will requ	ire eight additional cases be added to the case build process:	
Summer benchmark power flow		
2. Summer sensitivity power flow		
3. Summer benchmark dynamics		
Summer sensitivity dynamics		
5. Winter benchmark power flow		
6. Winter sensitivity power flow		
7. Winter benchmark dynamics		
8. Winter sensitivity dynamics		

MMWG is likely going to be the group to coordinate interregional case builds, so these cases will be IN ADDITION TO existing case requirements. Also, extreme temperature sets will require additional data collection from generator owners through MOD-032. Once the temperature sets are known, PCs will need to issue a data request to generators to provide:		
1) the unit's ability to operate at that extreme temperature, and		
2) if able, the machine's capability.		
	Current funding of ERAG may be insufficient to accommodate model building for all the scenarios listed increase its fees to accomplish this work. In addition, PCs will likely need to hire more people to perform the	
Likes 1	Scott Brame, N/A, Brame Scott	
Dislikes 0		
Response		
Zahid Qayyum - New York Power Author	ity - 5	
Answer	No	
Document Name		
Comment		
• NYPA will need more information to adequately assess the cost effectiveness of the proposed approach.		
Likes 0		
Dislikes 0		
Response		
Ronald Hoover - Bonneville Power Admi	nistration - 1,3,5,6 - WECC	
Answer	No	
Document Name		
Comment		
BPA does not believe it is cost effective. It is cost prohibitive to make capital investments for multiple contingency events during extreme temperatures. BPA believes it is more appropriate to deal with such scenarios in operating horizon through operating plans		
Likes 0		
Dislikes 0		
Response		

Duane Franke - Manitoba Hydro - 1,3,5,6 - MRO	
Answer	No
Document Name	
Comment	
	unnecessary for the benchmarked extreme temperature scenarios. It is purely administrative and adds no ed to do with the the study results other than documenting the possible actions.
Likes 0	
Dislikes 0	
Response	
Joyce Gundry - Public Utility District No. 1 of Chelan County - 3, Group Name CHPD	
Answer	No
Document Name	
Comment	
CHPD agrees with WPP's comment.	
Likes 1	Jennie Wike, N/A, Wike Jennie
Dislikes 0	
Response	
Jennifer Weber - Tennessee Valley Auth	ority - 1,3,5,6 - SERC
Answer	No
Document Name	
Comment	
At this time, due to the number of requirements that we do not agree with, we are unable to fully agree that this standard provides the necessary flexibility to meet the reliability objectives in a cost-effective manner.	
Likes 0	
Dislikes 0	
Response	

Answer	No	
Chantal Mazza - Chantal Mazza On Behal	f of: Nicolas Turcotte, Hydro-Quebec (HQ), 1, 5; - Chantal Mazza	
Response		
Dislikes 0		
Likes 0		
See other answers.		
Comment		
Document Name		
Answer	No	
Jeffrey Streifling - NB Power Corporation	n - 1	
Response		
Dislikes 0		
Likes 2	Snohomish County PUD No. 1, 3, Chaney Holly; Jennie Wike, N/A, Wike Jennie	
Requiring CAP and installation of equipmen	t is likely not as cost effective as implementing operational procedures.	
Comment		
Document Name		
Answer	No	
Alyssia Rhoads - Public Utility District N	o. 1 of Snohomish County - 1	
Response		
Dislikes 0		
Likes 0		
Requiring CAP and installation of equipmen	t based off NERC TPL 008 is likely not as cost-effective as implementing operational procedures	
Comment		
Document Name		
Answer	No	
Chelsea Loomis - Western Power Pool -	NA - Not Applicable - WECC, Group Name WPP Consortium of Engineers	

Document Name	
Comment	
see comments in other sections	
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 NPCC RSC
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Fon Hiew - NB Power Corporation - New	Brunswick Power Transmission Corporation - 5
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Puk	plic Service Co 1
Answer	Yes
Document Name	
Comment	
None	

Likes 0		
Dislikes 0		
Response		
Mark Garza - FirstEnergy - FirstEnergy C	Corporation - 4, Group Name FE Voter	
Answer	Yes	
Document Name		
Comment		
FE has no comment toward the cost-effectiveness of this proposal		
Likes 0		
Dislikes 0		
Response		
Apollonia Gonzales - PNM Resources - F	Public Service Company of New Mexico - 1,3,5 - WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kinte Whitehead - Exelon - 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Michele Shafer - New York State Electric & Gas (NYSEG) - 6		
Yes		
ority - 1		
Yes		
Yes		
Teresa Krabe - Lower Colorado River Authority - 5		
Yes		
Comment		

Likes 0	
Dislikes 0	
Response	
srael Perez - Israel Perez On Behalf of: Laura Somak, Salt River Project, 3, 6, 5, 1; Mathew Weber, Salt River Project, 3, 6, 5, 1; Thomas ohnson, Salt River Project, 3, 6, 5, 1; Timothy Singh, Salt River Project, 3, 6, 5, 1; - Israel Perez	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michele Tondalo - United Illuminating Co	1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Daniel Gacek - Exelon - 1	
Answer	Yes
Document Name	
Comment	
ikes 0	
Dislikes 0	
Response	

Gary Trezza - Long Island Power Authority - 1 - NPCC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Lidija Efremova - Lidija Efremova On Be	half of: Emma Halilovic, Hydro One Networks, Inc., 1; - Lidija Efremova	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Srikanth Chennupati - Entergy - Entergy	Services, Inc 1,3,5,6 - SERC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Eric Sutlief - CMS Energy - Consumers Energy Company - 3,4,5 - RF		
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Jessica Cordero - Unisource - Tucson E	lectric Power Co 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity Co	pordinating Council - 10, Group Name WECC
Answer	
Document Name	
Comment	
N/C	
Likes 0	
Dislikes 0	
Response	
Selene Willis - Edison International - Sou	uthern California Edison Company - 5
Answer	
Document Name	
Comment	
Please see comments from EEI	
Likes 0	
Dislikes 0	
Response	

Daniella Maakan Daniella Maakan On B	shalf of David Jandras Sr. Ameron, Ameron Santiaca 2 6 4. Daniello Masken
	ehalf of: David Jendras Sr, Ameren - Ameren Services, 3, 6, 1; - Danielle Moskop
Answer	
Document Name	
Comment	
Ameren has no comments on the cost effect	tiveness of the project.
Likes 0	
Dislikes 0	
Response	
Devin Shines - PPL - Louisville Gas and	Electric Co 1,3,5,6 - SERC,RF
Answer	
Document Name	
Comment	
objectives. While the DT does not need to it	a for benchmark events in the standard, it is impossible to assess the cost-effectiveness or the reliability include detailed weather data in the standard, it must include parameters such as: the duration of historical robability of the events to be studied, the granularity of data required, etc.
Likes 0	
Dislikes 0	
Response	
Rachel Schuldt - Black Hills Corporation	- 6, Group Name Black Hills Corporation - All Segments
Answer	
Document Name	
Comment	
Black Hills Corporation will not comment on	cost effectiveness.
Likes 0	
Dislikes 0	
Response	

Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF	
Answer	
Document Name	
Comment	
Duke Energy does not comment on costs.	
Likes 0	
Dislikes 0	
Response	

9. Provide any additional comments for the desired.	e standard drafting team to consider, including the provided technical rationale document, if
Long Island Power Authority	
Answer	
Document Name	
Comment	
Comment on the Implementation Plan:	
	graphic on page 3 of the IP does not match the text on page 2. In the graphic, it appears ntal authority approval, and not on when TPL-008-1 goes into effect.
Page 2 of the IP states:	
Phased-In Compliance Dates	
Compliance Date for TPL-008-1 Require	ement R1
Entities shall be required to comply with	h Requirement R1 upon the effective date of Reliability Standard TPL-008-1.
Compliance Date for TPL-008-1 Require	ements R2, R3, R4, R5, R6
Entities shall not be required to comply with Requirements R2, R3, R4, R5, and R6 until thirty-six (36) months after the effective date of Reliability Standard TPL-008-1.	
Compliance Date for TPL-008-1 Require	ements R7, R8, R9, R10, R11
Entities shall not be required to comply Reliability Standard TPL-008-1.	with Requirements R7, R8, R9, R10, R11 until sixty (60) months after the effective date of
To match the text on page 2, our interpr	retation is that the graphic on page 3 should be modified as shown below.



Comment on Requirement #11

Requirement #11 states:

"Each responsible entity, as identified in Requirement R1, shall provide its Extreme Temperature Assessment results within 60 calendar days of a request to any functional entity that has a reliability related need and submits a written request for the information."

This could be interpreted in different ways.

We would recommend the SDT consider modifying the wording (see TPL-001-5.1 Req #8 for reference) and timeframe to be more consistent with TPL-001-5.1 Req #, 8 as follows:

"Each responsible entity, as identified in Requirement R1, shall provide its latest completed Extreme Temperature Assessment results within 90 calendar days of a request to any functional entity that has a reliability related need and submits a written request for the information."

Likes 0	# of other submitters who agree with these comments
Dislikes 0	# of other submitters who disagree with these comments

Response	
(Drafting team's response to submitt	er's comments)
Chantal Mazza - Chantal Mazza On Behal	If of: Nicolas Turcotte, Hydro-Quebec (HQ), 1, 5; - Chantal Mazza
Answer	
Document Name	
Comment	
	ant role in developing and implement corrective action plans. The document does not acknowledge the role he accountability to present CAP and associated investments and cost to its regulatory body for retail s explicitly clear.
	ature ratings have been established, but that is not necessarily the case in all jurisdictions. Will facility ld or warm temperature ratings for this standard?
Likes 0	
Dislikes 0	
Response	
Jeffrey Streifling - NB Power Corporation	ı - 1
Answer	
Document Name	
Comment	
FO explicitly. The FO ultimately has the acc suggest the standard make this explicitly clean	ratings have been established, but that is not necessarily the case in all jurisdictions. Will facility owners be
Likes 0	
Dislikes 0	
Response	
Eric Sutlief - CMS Energy - Consumers E	nergy Company - 3,4,5 - RF
Answer	
Document Name	
Comment	

To remain consistent with TPL-001 and the System" in the purpose statement of this sta	definition of the Extreme Temperature Assessment, "Bulk Power System" should be refined to "Bulk Electric andard.
Likes 0	
Dislikes 0	
Response	
Srikanth Chennupati - Entergy - Entergy	Services, Inc 1,3,5,6 - SERC
Answer	
Document Name	
Comment	
allow time for benchmark temperature even	ional time beyond the five-year assessment schedule for the first assessment to be completed. This will ts to be identified and developed by the ERO & industry. This will also provide leeway for any issues that and complex model building and study process that will require new collaboration processes between
Likes 0	
Dislikes 0	
Response	
Jennifer Weber - Tennessee Valley Author	ority - 1,3,5,6 - SERC
Answer	
Document Name	
Comment	
include the assessments as contemplated in to be useful for reference only, per the Tech	the comment document does not appear to request input for R11, we recommend that the "results" only in R9, for which Corrective Action Plans will be developed. Since the "possible actions" in R10 are suggested inical Rationale document, and are not required to have Corrective Action Plans, we believe sharing this it and ineffective task, and likely to cause more confusion that clarity.
Likes 0	
Dislikes 0	
Response	
Lidija Efremova - Lidija Efremova On Bel	nalf of: Emma Halilovic, Hydro One Networks, Inc., 1; - Lidija Efremova
Answer	

Document Name		
Comment		
Comments:		
1. The document does not acknowledge the role of the facility owner explicitly. Facility Owners (FO) have an important role in developing and mplement corrective action plans. PC cannot and should NOT come up with requirements without involving the FO. As an example, the IESO should not be allowed to come up for requirements for extreme weather without full alignment with HONI, that needs to spend the money and provision for emergency response and replacement for every event. In some jurisdictions, the FO ultimately has the accountability to present CAP and associated nvestments and cost to its regulatory body for retail service. We suggest the standard make this explicitly clear.		
NERC and/or FERC should only direct needs and responses should be based on a	coordination and alignment and not specific actions. The local PC/TO/BA can determine what the local consistent framework for the control area.	
3. In Ontario, we have updated and derated equipment ratings by taking extreme temperatures into account; for example, for transmission line we have gone from 30C to 35C based on regional temperatures. In addition, we also consider extreme weather correction factors both for winter and summer. For this exercise/standard, would facility owner need to establish further extreme ratings such as 40C or 45C? This will be unmanageable and provide skewed results and double counting.		
4. Are the benchmark events considering regional-specific extremes? We are interested in seeing how Canadian, provincial attributes are considered within the ERO benchmark library. It is extremely important that Canadian benchmarks are adequately reflected and/or provide flexibility for Canadian o make changes to the ERO benchmark library.		
5. We appreciate and agree with the draft standard for assessment of extreme weather conditions using normal contingencies. However, we would not support an assessment with required CAP using any type of extreme contingencies.		
6. The benchmarking and baselining of the events that one should consider is a necessary step as some jurisdictions/utilities may not want to take any risk and ask for a lot of funding and others may be more balanced and ask for less funding. Assessing to a reasonable risk level needs to be consistent.		
Likes 0		
Dislikes 0		
Response		
Joyce Gundry - Public Utility District No.	1 of Chelan County - 3, Group Name CHPD	
Answer		
Document Name		
Comment		
Industry have not been provided NERC's proposed set of benchmark events so that we may provide meaningful feedback during this standard development process. We continue to have concerns about the benchmark library and the process to include and update events.		

On a positive note, while we have not seen such materials included in this standard development process, CHPD appreciates members of the SDT have reached out to our region regarding the benchmark library, and we have been able to provide dialogue to the SDT via this outreach. This outreach by the SDT members is appreciated and commendable.

Regarding outages – we see the SDT's comment and response to "All lines in Service", but we do not see clarification in the standard itself along these lines. CHPD requests clarity from the SDT on whether this is the expectation (in which case this should be specifically called out in requirements) or if this is more a N-0 all lines in service instance, in which case the baseline scenario would not have outages.

The approach in TPL-001-5 R2.1.4. regarding planned outages has precedence in the transmission planning realm.

TPL-001-5.1 R2.1.4 Language:

When known outage(s) of generation or Transmission Facility(ies) are planned in the Near-Term Planning Horizon, the impact of selected known outages on System performance shall be assessed. These known outage(s) shall be selected for assessment consistent with a documented outage coordination procedure or technical rationale by the Planning Coordinator or Transmission Planner. Known outage(s) shall not be excluded solely based upon outage duration. The assessment shall be performed for the P0 and P1 categories identified in Table 1 with the System peak or Off-Peak conditions that the System is expected to experience when the known outage(s) are planned. This assessment shall include, at a minimum known outages expected to produce more severe System impacts on the Planning Coordinator or Transmission Planner's portion of the BES. Past or current studies may support the selection of known outage(s), if the study(s) has comparable post-Contingency System conditions and TPL-001-5.1 — Transmission System Planning Performance Requirements Page 3 of 32 configuration such as those following P3 or P6 category events in Table 1.

If planned outages instead of weather-related historic outages are the intent, a proposed language selection for TPL-008, based on TPL-001-5.1 R2.1.4 could be:

When known outage(s) of generation or Transmission Facility(ies) are planned in the Long-Term Transmission Planning Horizon, the impact of selected known outages on System performance shall be assessed. These known outage(s) shall be selected for assessment consistent with a documented outage coordination procedure or technical rationale by the Planning Coordinator or Transmission Planner. Known outage(s) shall not be excluded solely based upon outage duration. The assessment shall be performed for the P0 and P1 categories identified in Table 1 for under Benchmark Planning Case Assessment conditions that the System is expected to experience when the known outage(s) are planned. This assessment shall include, at a minimum known outages expected to produce more severe System impacts on the Planning Coordinator or Transmission Planner's portion of the BES.

CHPD would also like to note, that we support and agree with WPP's submitted comments.

Likes 1	Jennie Wike, N/A, Wike Jennie
Dislikes 0	

Response

Gary Trezza - Long Island Power Authority - 1 - NPCC

Answer	
Document Name	2023-07_Unofficial_Comment_Form Draft 2_071624_LIPA comments_08-15-2024 (002).pdf

Comment

Comment on the Implementation Plan:

From the Implementation Plan (IP), the graphic on page 3 of the IP does not match the text on page 2.

In the graphic, it appears that the timeline is	based on governmental authority approval, and not on when TPL-008-1 goes into effect.
Page 2 of the IP states:	
Phased-In Compliance Dates	
Compliance Date for TPL-008-1 Requirem	nent R1
Entities shall be required to comply with Red	quirement R1 upon the effective date of Reliability Standard TPL-008-1.
Compliance Date for TPL-008-1 Requirem	nents R2, R3, R4, R5, R6
Entities shall not be required to comply with Standard TPL-008-1 .	Requirements R2, R3, R4, R5, and R6 until thirty-six (36) months after the effective date of Reliability
Compliance Date for TPL-008-1 Requiren	nents R7, R8, R9, R10, R11
Entities shall not be required to comply with Standard TPL-008-1 .	Requirements R7, R8, R9, R10, R11 until sixty (60) months after the effective date of Reliability
To match the text on page 2, our interpre UPLOADED / ATTACHED file named "202	tation is that the graphic on page 3 should be MODIFIED as shown on on page 7 of 7 of the 23-07_Unofficial_Comment_Form Draft 2_071624_LIPA comments_08-15-2024 (002).pdf".
Comment on Requirement #11	
request to any functional entity that has a re This could be interpreted in different ways. We would recommend the SDT consider mo 001-5.1 Req #, 8 as follows: "Each responsible entity, as identified in Red	quirement R1, shall provide its Extreme Temperature Assessment results within 60 calendar days of a liability related need and submits a written request for the information." odifying the wording (see TPL-001-5.1 Req #8 for reference) and timeframe to be more consistent with TPL-quirement R1, shall provide its latest completed Extreme Temperature Assessment results within 90 entity that has a reliability related need and submits a written request for the information."
Likes 0	
Dislikes 0	
Response	
Duane Franke - Manitoba Hydro - 1,3,5,6	- MRO
Answer	
Document Name	
Comment	
Please correct the wording "min" to "max" in document.	the table heading on page-4 of the "Extreme Heat and Cold Weather Benchmark Events Example"

Likes 0		
Dislikes 0		
Response		
Ronald Hoover - Bonneville Power Admir	nistration - 1,3,5,6 - WECC	
Answer		
Document Name		
Comment		
BPA recommends adding "or to its designee" to all references of "ERO" in R2. BPA believes this will add flexibility to the requirement for scenarios such as large geographical footprints, where benchmark temperatures could be extremely variable"		
BPA currently has the following concerns:		
R2 - Uncertainty about the events in the NE	RC library and the process.	
R3/R4 - Need a clearly defined scope regar	ding coordination with the other entities.	
R9 Corrective Action Plans, use of Operating Plans could be a cost effective alternative to a CAP and result in acceptable system performance.		
Likes 0		
Dislikes 0		
Response		
Fon Hiew - NB Power Corporation - New	Brunswick Power Transmission Corporation - 5	
Answer		
Document Name		
Comment		
Facility Owners (FOs) have an important role in developing and implement corrective action plans. The document does not acknowledge the role of the FO explicitly. The FO ultimately has the accountability to present CAP and associated investments and cost to its regulatory body for retail service. We suggest the standard make this explicitly clear.		
In certain jurisdiction, extreme temperature ratings have been established, but that is not necessarily the case in all jurisdictions. Will facility owners be required to establish extreme cold or warm temperature ratings for this standard?		
Likes 0		

Dislikes 0	
Response	
Andy Thomas - Duke Energy - 1,3,5,6 - S	ERC,RF
Answer	
Document Name	
Comment	
Modify R11 to match TPL-001-5.1 R8 excep	ot change 90 calendar-days to "180 calendar-days" in R8.1 due to the five-year time period between studies.
Likes 0	
Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy C	orporation - 4, Group Name FE Voter
Answer	
Document Name	
Comment	
None.	
Likes 0	
Dislikes 0	
Response	
Zahid Qayyum - New York Power Author	ity - 5
Answer	
Answer Document Name	
Document Name Comment	entity will do an annual reconciliation of cases using actual recorded data? NYPA appreciates if the SDT can
Comment Name Comment • It's unclear whether the responsible exprovide clarity on this	entity will do an annual reconciliation of cases using actual recorded data? NYPA appreciates if the SDT can should be replaced with Table 1.1, table 1.2 appropriately.

Dislikes 0	
Response	
Anna Martinson - MRO - 1,2,3,4,5,6 - MRO	D, Group Name MRO Group
Answer	
Document Name	

Comment

Footnote 1 from Table 1.3 is not reflected in Table 1.1 (it should be up by 'Fault Type' column header).

ETA Definition and Purpose: MRO NSRF notes that the definition for Extreme Temperature Assessment uses BES and the purpose of TPL-001-8 uses BPS. The two should align and MRO NSRF supports the use of "BES" to align with existing standard, TPL-001-5.1. Alternatively, the SDT needs to justify the reason for the difference.

DRAFT ERO Enterprise Process for TPL-008-1 Benchmark Weather Event Development and Maintenance

The process document says," Refer to the NERC **Glossary of Terms** for the below capitalized terms used in this process." While NERC may have defined these terms, those highlighted in yellow (below) are *not* in the NERC Glossary of Terms.

• Affected Regional Entity (ARE)

• Compliance Enforcement Authority (CEA)

• Coordinated Oversight

• Extreme Temperature Assessment (ETA) - New! In TPL-008-1 standard

• Lead Regional Entity (LRE)

• Multi-Region Registered Entity (MRRE)

Absence of the Benchmark Library

The MRO NSRF has concerns with finalizing the TPL-008 standard with the benchmark event library unseen as this may have significant impact as to how the standard should be structured and how it is interpreted and applied.

Relevance to Canada

The MRO NSRF requests that Canadian provinces be considered within the ERO benchmark library.

MRO NSRF requests clarification regarding the following. Is an entity required to use the same benchmark event across its entire footprint or can an entity use different events for different areas of its footprint? For example, if an MRO NSRF member selects a benchmark event that has high impacts concentrated in its Southern Region for its first iteration, could the next 5-year iteration use a benchmark event that has high impacts concentrated in its Central Region?

	requests are made, there may great uncertainty for the resources. Many states have firm policies driving e location and size is not going to be able to be known. This may lead to these future cases being unent power assumptions.
Likes 1	Scott Brame, N/A, Brame Scott
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC
Answer	
Document Name	
Comment	
	le in developing and implement corrective action plans. The document does not acknowledge the role of the countability to present CAP and associated investments and cost to its regulatory body for retail service. We ear.
In certain jurisdiction, extreme temperature required to establish extreme cold or warm	ratings have been established, but that is not necessarily the case in all jurisdictions. Will facility owners be temperature ratings for this standard?
Likes 0	
Dislikes 0	
Response	
Daniel Gacek - Exelon - 1	
Answer	
Document Name	
Comment	
	details of events in the benchmark library included in the associated standard requirements. Specifically, included in selected events as well as how event selection will inform coordination.
Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Put	olic Service Co 1

Answer	
Document Name	
Comment	
None	
Likes 0	
Dislikes 0	
Response	
Utility District, 3, 6, 4, 1, 5; Kevin Smith, I	arles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, 3, 1, 2; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim
Answer	
Document Name	
Comment	
SMUD supports the comments submitted by	y the MRO NSRF.
Likes 0	
Dislikes 0	
Response	
Barbara Marion - Dominion - Dominion R	Resources, Inc 5, Group Name Dominion
Answer	
Document Name	
Comment	
There are concerns over the CAP as well as	s ambiguity in R2.
Likes 0	
Dislikes 0	
Response	
Michael Jones - National Grid USA - 1	

Answer		
Document Name		
Comment		
	addition, please thoroughly review TPL-008-1 Table 1 to ensure consistency with TPL-001-5.1 Table 1, en unintentionally missed. For example and consideration:	
Table 1 - General comments:		
Footnote 1 (in TPL-001) in header of Event	Footnote 1 (in TPL-001) in header of Event column is 'missing,' i.e., not included in TPL-008.	
Footnote 1 (in TPL-008), which is Footnote	Footnote 1 (in TPL-008), which is Footnote 2 (in TPL-001), is missing(?) from the header of Table 1	
Footnote 2 (in TPL-001) in header of BES Level column is 'missing,' i.e., not included in TPL-008, while Facility voltage level of Contingency is listed in new Footnote 2 (in TPL-008) it is still 'inconsistent.'		
Footnote 5 (in TPL-001) related to transformers is 'missing,' i.e., not included in TPL-008.		
Footnote 9 (in TPL-001) for interruption of firm transmission is 'missing,' i.e., not included in TPL-008.		
Footnote 11 (in TPL-001) related to DCTs is 'missing,' i.e., not included in TPL-008.		
Footnote 12 (in TPL-001) on non-conseque	ntial load loss is 'missing,' i.e., not included in TPL-008.	
Table 1.2 – Performance Requirements		
P0: "The System shall remain stable" is only since reference to 'remain stable' is unclear	y listed for P0– Suggest removing since not 'defined.' Similar to EEI comment, but recommending deleting .	
Allowance for non-Consequential Load Loss as an interim solution seems more stringent than TPL-001.		
Requirement to "Simulate the removal of all event" (TPL-001) has no matching counterp	elements that Protection Systems and other controls are expected to automatically disconnect for each eart in Table 1.	
Event to "Simulate Normal Clearing unless	otherwise specified" (TPL-001) has no counterpart in Table 1.	
Minor issues: Table 1.2 (in TPL-008) is structured Load Loss and Interruption of Firm Transmi	ctured differently than in TPL-001 and placed after the 'main' Table 1., The ordering of Non-Consequential ssion reversed (vs. TPL-001).	
Likes 0		
Dislikes 0		
Response		
Hayden Maples - Hayden Maples On Beh Tiffany Lake, Evergy, 3, 5, 1, 6; - Hayden	alf of: Jeremy Harris, Evergy, 3, 5, 1, 6; Kevin Frick, Evergy, 3, 5, 1, 6; Marcus Moor, Evergy, 3, 5, 1, 6; Maples	
Answer		
Document Name		
Comment		

Evergy supports and incorporates by reference on question 9	nce the comments of the Midwest Reliability Organization's NERC Standards Review Forum (MRO NSRF)
Likes 0	
Dislikes 0	
Response	
Amy Wilke - American Transmission Con	npany, LLC - 1
Answer	
Document Name	
Comment	
ATC supports the MRO NSRF comments.	
Likes 0	
Dislikes 0	
Response	
Junji Yamaguchi - Hydro-Quebec (HQ) - (5
Answer	
Document Name	
Comment	
	ant role in developing and implement corrective action plans. The document does not acknowledge the role he accountability to present CAP and associated investments and cost to its regulatory body for retail s explicitly clear.
	ature ratings have been established, but that is not necessarily the case in all jurisdictions. Will facility ld or warm temperature ratings for this standard?
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	
 Maintenance" should be included in and maintenance of the Weather Evquestion 2 should be included. Page 3, A.3, the Introduction Purpo Reference to the benchmark events throughout the document. Slight presented in the present of the p	etails from the "ERO Enterprise Process for TPL-008-1 Benchmark Weather Event Development and the TPL-008-1 reliability standard to define the ERO's responsibilities as they pertain to the development vent Library. At minimum, the suggested language and footnote proposed by EEI in response to survey see should change "Bulk Power System (BPS)" to "Bulk Electric System (BES)" for consistency. It is as either 'temperature benchmark events' or 'benchmark temperature events' should be made consistent efference for 'temperature benchmark events'.
Likes 0	
Dislikes 0	
Response	
Helen Lainis - Independent Electricity Sy	stem Operator - 2
Answer	
Document Name	
Comment	
Comment	
	ling whether facility owners will be required to establish extreme cold or warm temperature ratings
We support NPCC TFCP comment regard	ling whether facility owners will be required to establish extreme cold or warm temperature ratings
We support NPCC TFCP comment regard for this standard?	ling whether facility owners will be required to establish extreme cold or warm temperature ratings
We support NPCC TFCP comment regard for this standard? Likes 0	ling whether facility owners will be required to establish extreme cold or warm temperature ratings
We support NPCC TFCP comment regard for this standard? Likes 0 Dislikes 0	ling whether facility owners will be required to establish extreme cold or warm temperature ratings
We support NPCC TFCP comment regard for this standard? Likes 0 Dislikes 0	
We support NPCC TFCP comment regard for this standard? Likes 0 Dislikes 0 Response	
We support NPCC TFCP comment regard for this standard? Likes 0 Dislikes 0 Response Devin Shines - PPL - Louisville Gas and	
We support NPCC TFCP comment regard for this standard? Likes 0 Dislikes 0 Response Devin Shines - PPL - Louisville Gas and I	
We support NPCC TFCP comment regard for this standard? Likes 0 Dislikes 0 Response Devin Shines - PPL - Louisville Gas and Industry Answer Document Name Comment The DT should consider whether the use of	

Dislikes 0	
Response	
Rachel Coyne - Texas Reliability Entity, I	nc 10
Answer	
Document Name	

Comment

Texas RE has identified two issues with the proposed Implementation Plan. First, the Implementation Plan timeline and narrative do not consistently use the same start date for all applicable compliance dates. In particular, the compliance dates for Requirement R1 appear tied to the Standard Effective Date, but the compliance dates in the proposed timeline appear tied to the date of the government order. Second, Texas RE notes that no initial performance date is specified for Requirement R8.

Phased Implementation Dates

Texas RE requests again that the implementation plan descriptions and diagram be aligned to a consistent start date for all applicable requirements. Texas RE notes that in the narrative description, compliance activities appear to be linked to the Standard Effective Date, which is 12 months following the first calendar quarter after the order of the applicable governing authority approving the standard. For instance, the proposed Implementation Plan provides that entities shall be required to comply with Requirement R1 upon the effective date of the Reliability Standard TPL-008-1. Similarly, compliance dates for Requirements R2 through R6 are occur 36 months after the effective date of standard.

The table then provides that the enforcement date for Requirement R1 is 12 months following the applicable governing authority's order – that is, the Effective Date of the Standard. In contrast, however, the implementation timeline then appears to link the various staggered implementation dates for R2 through R6 and R7 through R11 to the date of the order approving the standard, not the Effective Date of the Standard itself. That is, entities in effect have only 24 months from the Effective Date of the Standard to comply with R2 though R6 under the timeline, not 36 months from the Effective Date of Reliability Standard TPL-008-1 as set forth in the Implementation Plan narrative.

Texas RE recommends that the SDT either revise the timeline chart to consistently link all required compliance dates to the Effective Date of the Standard or, alternatively, revise the narrative description to reference the date of the order approving the standard for all required compliance dates to avoid confusion.

The following table summarizes the Implementation Plan and chart as currently drafted:

Phased In Compliance Dates

Effective Date of the Standard = The first day of the first calendar quarter that is twelve (12) months after the effective date of the applicable governing authority's order.

R1 = Effective Date of TPL-008-1 (12 months after the government order)

R2, R3, R4, R5, R6 = Effective Date + 36 m	nonths
R7, R8, R9, R10, R11 = Effective Date + 60) months
The diagram in the implementation plan sho	ows the following:
R1 = Effective Date of TPL-008-1 (12 month	ns after the government order date)
R2, R3, R4, R5, R6 = Effective Date for TPI	008-1 + 24 months (36 months after the government order date)
R7, R8, R9, R10, R11 = Effective Date for T	FPL-008-1 + 48 months (60 months after the government order date)
Initial Performance Date	
performance date specified, Texas RE under after the effective date of Requirement R8 (e Extreme Temperature Assessment shall be done once every five calendar years. Since there is no initial erstands that the entity would not need to perform its initial Extreme Temperature Assessment until 5 years that is, 10 years after the Effective Date of Requirement R8). Texas RE generally recommends establishing effective date of the requirement to avoid delaying compliance obligations an additional five years.
Likes 0	
Dislikes 0	
Response	
	aura Somak, Salt River Project, 3, 6, 5, 1; Mathew Weber, Salt River Project, 3, 6, 5, 1; Thomas mothy Singh, Salt River Project, 3, 6, 5, 1; - Israel Perez
Answer	
Document Name	
Comment	
The standard as written is inconsistent in all 1.1 and 1.2 used appropriately.	I references to the attached tables. "Table 1" should be removed from the requirement language and table
Likes 0	
Dislikes 0	
Response	
Danielle Moskop - Danielle Moskop On B	sehalf of: David Jendras Sr, Ameren - Ameren Services, 3, 6, 1; - Danielle Moskop
Answer	
Document Name	

Comment		
Ameren supports EEI's comments on this project.		
Likes 0		
Dislikes 0		
Response		
Steven Rueckert - Western Electricity Co	oordinating Council - 10, Group Name WECC	
Answer		
Document Name		
Comment		
Purpose statement includes use of BPS but	t new definition is limited to BES. Was that intentional? R11-Who determines "reliability related need"?	
There are no defined actions to address de expectation?	ficiencies recognized by an Extreme Temperature Assessment. Only CAPs are called out, is that the	
Extreme weather may not cover all of a responsible entity's area. Is it the DT's assumption that it would and therefore no partial footprint Extreme Temperature Assessments would meet the Requirements? Or are partial footprint Extreme Temperature Assessments allowable? Based on the additional materials provided it appears that boundaries have been set.		
Table Issues- Where is Footnote 1 within th	e Table used?	
Steady State P1- Capitalize "Facility ratings"		
Requirement R5 Severe VSL should say "completing" not "performing".		
Requirement R7 VSLs need rewritten to match language of the Standard unless language gets changed back to "Contingencies".		
Requirement R8 VSLs indicate completion of an Extreme Temperature Assessment but do not reflect completion of "steady state and transient stability analyses". If one of those is not done, effectively an Extreme Temperature Assessment has not been performed. Is that correct?		
Benchmark Weather Event Development and Maintenance Document		
There are several terms noted as being in the Glossary of Terms but are not used in the process nor are they in the Glossary. Many deal with the Coordinated Oversight Program that has its own set of definitions. The sample benchmark event materials for the Weather Event Library provide some clarity on what materials will be included. Still looks like additional information may be needed for registered entities approach in using the events in the Extreme Temperature Assessments.		
Likes 0		
Dislikes 0		
Response		

Teresa Krabe - Lower Colorado River Au	thority - 5
Answer	
Document Name	
Comment	
	nat the benchmark planning cases will factor generation and transmission outages. LCRA does not believe account for generation and transmission outages prior to running the specified contingencies and how
Likes 0	
Dislikes 0	
Response	
Hillary Creurer - Allete - Minnesota Powe	er, Inc 1
Answer	
Document Name	
Comment	
Minnesota Power supports MRO's NERC S	Standards Review Forum's (NSRF) comments.
Likes 0	
Dislikes 0	
Response	
Matt Lewis - Lower Colorado River Author	ority - 1
Answer	
Document Name	
Comment	
	nat the benchmark planning cases will factor generation and transmission outages. LCRA TSC does not ses will account for generation and transmission outages prior to running the specified contingencies and how
Likes 0	
Dislikes 0	

Response		
Donna Wood - Tri-State G and T Associa	Donna Wood - Tri-State G and T Association, Inc 1	
Answer		
Document Name		
Comment		
	by the MRO NSRF referencing the absence of the Benchmark Library. The TPL-008 standard with the benchmark event library unseen as this may have significant impact as to how	
the standard should be structured and how		
Likes 0		
Dislikes 0		
Response		
Romel Aquino - Edison International - So	outhern California Edison Company - 3	
Answer		
Document Name	Near Final EEI Comments P2023-07_ TPL-008 Draft 2 _ Rev. 0g 8_21_2024.docx	
Comment		
See comments submitted by the Edison Ele	ectric Institute, attached.	
Likes 0		
Dislikes 0		
Response		
Shannon Mickens - Shannon Mickens On SPP RTO	n Behalf of: Joshua Phillips, Southwest Power Pool, Inc. (RTO), 2; - Shannon Mickens, Group Name	
Answer		
Document Name		
Comment		
SPP recommends that the drafting team co assessments doesn't create overlap for each	ordinate with other drafting teams like the Energy Reliability Assessment (ERA) to ensure that these ch other's processes and efforts.	
Likes 0		

Dislikes	0	
Response	е	
Kinte Whi	itehead - Exelon - 3	
Answer		
Documen	nt Name	
Comment	t	
		details of events in the benchmark library included in the associated standard requirements. Specifically, included in selected events as well as how event selection will inform coordination.
Likes 0		
Dislikes	0	
Response	e	
Stephen S	Stafford - Stephen Stafford On I	Behalf of: Greg Davis, Georgia Transmission Corporation, 1; - Stephen Stafford
Answer		
Documen	nt Name	
Comment	t	
St sy ar	tandard is the unknowns around the stem or resource availability emb mbiguities, and significant burdens	extreme weather benchmark event is reasonable. The difficulty in properly assessing this draft Reliability the benchmark events. Whether these events are solely temperature-based or if there is a related electrical needed needs to be clarified in the standard language. Also, there are numerous inconsistencies, is being placed on the PC/TP in this standard that will result in problematic assessments, issues with hin Interconnections, and cost for more staff to support the significant burden this standard poses.
Likes 0		
Dislikes	0	
Response	е	
Constanti	in Chitescu - Ontario Power Ge	neration Inc 5
Answer		
Documen	nt Name	
Comment	t	
OPG supp	ports NPCC Regional Standards (Committee's comments:

facility Owners (FOs) have an important role in developing and implement corrective action plans. The document does not acknowledge the role of the FO explicitly. The FO ultimately has the accountability to present CAP and associated investments and cost to its regulatory body for retail service. We uggest the standard make this explicitly clear.	
In certain jurisdiction, extreme temperature required to establish extreme cold or warm t	ratings have been established, but that is not necessarily the case in all jurisdictions. Will facility owners be emperature ratings for this standard?
Likes 0	
Dislikes 0	
Response	
Keith Jonassen - Keith Jonassen On Beh	alf of: John Pearson, ISO New England, Inc., 2; - Keith Jonassen
Answer	
Document Name	
Comment	
While ISO-NE appreciates the Benchmark Event Example, many concerns that the industry has regarding this standard and the studies that would be required, could be alleviated by the SDT/NERC providing a list of the Benchmark Temperature Events that would be available to choose from. It is difficult for areas to determine what would be required and to agree to perform studies on specific events without the list of events to choose from for the studies.	
n the specific Benchmark Event Example, ISO-NE did not experience a cold weather event so there is no value to ISO-NE in studying that particular event.	
ISO-NE requests that a list of Benchmark E	vents and applicable parameters be provided prior to any final Ballot on the TPL-008 Standard.
Likes 0	
Dislikes 0	
Response	
Ben Hammer - Western Area Power Adm	inistration - 1
Answer	
Document Name	
Comment	
Absence of the Benchmark Library	
WAPA has concerns with finalizing the TPL- standard should be structured and how it is	008 standard with the benchmark event library unseen as this may have significant impact as to how the interpreted and applied.
Likes 0	

Dislikes	0	
Respons	е	
Michael	Goggin - Grid Strategies LLC - 5	
Answer		
Docume	nt Name	
Commer	t	

First, to comply with FERC Order 896, the standard should specify that benchmark events and Extreme Temperature Assessments will account for concurrent/correlated outages of generators during extreme heat and cold events. In Order 896 paragraph 88, FERC directs "NERC to require under the new or revised Reliability Standard the study of concurrent/correlated generator and transmission outages due to extreme heat and cold events in benchmark events," explaining in paragraph 89 that "it is necessary that responsible entities evaluate the risk of correlated or concurrent outages and derates of all types of generation resources and transmission facilities as a result of extreme heat and cold events."

The drafts of TPL-008 and the associated "Consideration of FERC Order 896 Directives" document appear to put the burden on responsible entities and not NERC for accounting for correlated outages: "This directive is addressed in proposed TPL-008-1 through Requirement R3 Part 3.2. The responsible entity is obligated to modify the benchmark planning cases to include seasonal and temperature dependent adjustment for Load, generation, Transmission, and transfers which represent the selected benchmark events."[1]

Having responsible entities and not NERC conduct this adjustment increases the risk that different regions will use inconsistent methods for doing so, and at worst responsible entities that want to avoid addressing reliability concerns through a Corrective Action Plan will use unrealistically low assumptions for the rate of correlated generator outages or other input assumptions like load and transfers. This assumption can have such a large impact on results it cannot be left to responsible entities, and should be made by NERC. The drafting team's Technical Rationale used similar logic in deciding that NERC (the Electric Reliability Organization or ERO) should assemble the benchmark planning cases: "to ensure consistency across regions, it is necessary for the ERO to have the responsibility for determining the suitability of benchmark events to represent probable future conditions."

Given the significant variation in the rates at which different fuel types experience correlated outages, [2] and rapid changes in the generation mix that may cause the future power system to have greater or lesser exposure to correlated outage risk, it is particularly important for the benchmark events and Extreme Temperature Assessments to account for the concurrent/correlated outage risk of each fuel type in the future generation mix. In recent cold snap events, gas generator outages due to equipment failures and fuel supply interruptions have accounted for the majority of outages. NERC GADS data can be used to assess the rate of correlated outages and derates of generators by fuel type. [C][3]

Second, the benchmark cases and Extreme Temperature Assessments should account for changes to generation, demand, and transmission resulting from climate change, electrification of heating, and other factors that are affecting the risk posed by extreme heat and cold. Accounting for how climate change is increasing the frequency and magnitude of extreme heat and cold events is consistent with FERC's Order 896 directive in paragraph 40: "We also direct NERC to ensure the reliability standard contains appropriate mechanisms for ensuring the benchmark event reflects up-to-date meteorological data. The increasing intensity, frequency, and unpredictability of extreme weather conditions requires that key aspects of the benchmark events be reviewed, and if necessary, updated periodically to ensure the corresponding benchmark planning cases reflect updated meteorological data." Electrification of heating is also increasing the sensitivity of electricity demand to extreme cold conditions, which should be accounted for in the benchmark cases and Extreme Temperature Assessments.

Third, due to the impact of climate change, electrification, and rapid changes in the generation mix, requirement R8 should require responsible entities to complete an Extreme Temperature Assessment more frequently than at least once every five calendar years. As noted above, FERC Order 896 specifies that the meteorology underlying benchmark cases should be updated at least every five years, but the generation mix and other grid conditions can change more rapidly than that. TPL-001 requirement R2 requires Planning Assessments to be conducted annually, and a similar annual requirement for Extreme Temperature Assessments is appropriate given that extreme heat and cold events are the largest threat to electric reliability.

Finally, the requirement in Section 4.1 under R4 is unclear and may be inadequate. That section states that the Extreme Temperature Assessment shall evaluate "one of the years in the Long-Term Transmission Planning Horizon. The rationale for the year selected for evaluation shall be available as supporting information." At minimum, that section of R4 should be modified to provide responsible entities with greater direction on which year or years to assess. Because extreme heat and cold risks can evolve over time due to changes in the generation mix, load, and the impact of climate change, R4 should require the responsible entity to document that the year selected is likely to pose the greatest reliability risk. If it cannot be determined which year is likely to pose the greatest risk, then the responsible entity should be required to conduct the assessment for all years that may pose the greatest risk. This is important because of the long and ambiguous timeframe covered by the Long-Term Transmission Planning Horizon, which the NERC Glossary indicates is the "Transmission planning period that covers years six through ten or beyond when required to accommodate any known longer lead time projects that may take longer than ten years to complete." Planning for multiple years is consistent with the requirement in Section 2.1.1. of requirement R2 for TPL-001, which requires Planning Assessments to examine multiple years by incorporating "System peak Load for either Year One or year two, and for year five." [4]

Requirement R9

a. Requirement R9 should be modified to specify that the expected impact of extreme heat and cold should be accounted for when designing and measuring the impact of the solutions proposed in a Corrective Action Plan (CAP). Many potential solutions in a CAP can have greater or lesser impact under extreme heat or cold conditions. For example, a CAP that relies on adding gas generation can be less effective under extreme heat due to output reductions due to ambient temperature derates, and under extreme cold due to correlated gas generator outages. Gas generator outages due to equipment failures and fuel supply interruptions have accounted for the majority of outages during recent cold snap events. [C][5] As noted above in response to question 4, FERC's directive in paragraph 89 of Order 896 states that "it is necessary that responsible entities evaluate the risk of correlated or concurrent outages and derates of all types of generation resources and transmission facilities as a result of extreme heat and cold events." On the other hand, CAPs that include demand response and energy efficiency programs related to building HVAC systems can offer contributions that are larger than expected during extreme heat or cold because load associated with cooling or heating is higher during such events.

During extreme cold events, expanded transmission ties with neighboring grid operators can also exceed the benefits they offer under normal conditions because transmission line thermal limits are higher during extreme cold and wind chill conditions. Transmission ties also tend to offer large benefits during extreme heat and cold, as severe weather events tend to be at their most extreme in geographically confined areas, ensuring at least some nearby grid operators are not experiencing shortfalls in generation. [6] The benefits of interregional transmission are even greater at higher renewable penetrations. [7] The value of transmission ties during extreme heat and cold events should be accounted for when assessing baseline performance during benchmark events as well as quantifying the value of expanding these ties as part of a CAP.

The higher transfer capacity of advanced conductors under extreme heat and cold conditions should also be accounted for, as carbon and composite core conductors sag roughly half as much as comparable ACSR conductors. Finally, Grid-Enhancing Technologies like dynamic line ratings, topology optimization, and power flow control devices offer significant benefits when the grid may be congested due to extreme temperatures. Dynamic line ratings are particularly valuable for enabling operators to safely use transmission lines' higher thermal limits during extreme cold and wind chill conditions.

Accounting for how a CAP will fare under the extreme heat or cold conditions it is designed to solve is essential for ensuring reliability. Without accounting for the reduced effectiveness of some CAP elements under extreme heat or cold, planners will be blind to potential reliability risks. In other cases, failing to account for the effectiveness of specific CAP measures under extreme heat or cold will result in a suboptimal selection of solutions. Extreme heat and cold must not only be accounted for in identifying reliability risks, but also designing solutions to those risks.

b. The draft of R9 also includes a potential loophole that a responsible entity could use to avoid implementing a CAP that is needed to address reliability concerns.

First, allowing load curtailment for a P1 contingency under TPL-008 is a major departure from the requirements of TPL-001, which do not allow load shedding for a P1 contingency. [C][8] Allowing responsible entities plans' to include load shed when they experience a single P1 contingency under extreme heat or cold conditions is contrary to FERC's intent in Order 896 that NERC enact a standard that will ensure reliable operations under extreme heat and cold conditions.

More generally, a major concern with the draft standard is that there is no compliance mechanism to ensure CAPs are implemented. If implementing some CAP solutions requires action by an entity other than the transmission planner or planning coordinator responsible entities, the draft standard should be revised to include such a requirement on those entities. Other draft NERC standards include requirements to implement CAPs, and similar

language could be adopted for TPL-008. For example, requirement R9 of the PRC-028 draft requires a generator or transmission owner to "develop, maintain, and implement a Corrective Action Plan to provide the required capability," [C][9] and requirement R6 of the PRC-030 draft requires "Each applicable Generator Owner shall, for each of its CAPs developed pursuant to Requirement R5:

- 6.1. Implement the CAP;
- 6.2. Update the CAP if actions or timetables change; and
- 6.3. Notify each applicable Reliability Coordinator if CAP actions or timetables change and when the CAP is completed."[10]{C}

Implementation plan

The draft Implementation Plan proposes that requirements R7-R11, which require the Extreme Temperature Assessment and any resulting Corrective Action Plan, do not take effect until more than 6 years after the Standard is approved by FERC. This unnecessary delay is contrary to FERC's directive in Order 896 and the urgent importance of planning for extreme heat and cold events.

NERC's 2023 State of Reliability Overview concluded that "extreme weather events continue to pose the greatest risk to reliability due to the increase in frequency, footprint, duration, and severity." FERC Order 896 was also clear that the increasing frequency and magnitude of extreme weather events "have created an urgency to address the negative impact of extreme weather on the reliability of the Bulk-Power System" (at paragraphs 21-22). Waiting until after 2030 to address the largest threat to grid reliability does not make sense. Such a delay is also unnecessary, as entities responsible for TPL-008 already conduct nearly all of the elements of TPL-008 today to comply with TPL-001. TPL-008 effectively requires running similar analyses as TPL-001, but for extreme heat and cold scenarios. As a result, it should be straightforward for responsible entities to modify their existing planning practices to incorporate the two additional scenarios.

This unnecessary delay is also at odds with FERC's directive in Order 896. At paragraph 188, FERC directed "NERC to propose an implementation timeline for the new or modified Reliability Standard, with implementation beginning no later than 12 months after the effective date of a Commission order approving the proposed Reliability Standard." Under the draft Implementation Plan, the only requirement of TPL-008 that comes close to falling within the 12-month timeline FERC directed is compliance with R1, which begins "the first day of the first calendar quarter that is twelve (12) months after the effective date of the applicable governmental authority's order approving the standard."

More importantly, R1 only requires that "Each Planning Coordinator, in conjunction with its Transmission Planner(s), shall determine and identify each entity's individual and joint responsibilities for performing the studies needed to complete the Extreme Temperature Assessment," and as such is a minor procedural step towards implementing the actual Extreme Temperature Assessment and any resulting Corrective Action Plan in R7-R11. As noted above, those meaningful requirements do not begin until more than 6 years after the standard is approved by FERC. To comply with FERC's directive, the drafting team should require compliance with R7-R11 to begin within 12 months of FERC approval of the standard, and the interim steps in R2-R6 should also be moved up from the Implementation Plan's proposed deadline of 36 months after the effective date of the standard.

{C}[1]{C} NERC, Consideration of FERC Order 896 Directives (March 2024), https://www.nerc.com/pa/Stand/Project202307ModtoTPL00151TransSystPlanPerfReqExWe/2023-07 Consideration%20of%20FERC%20Order%20896%20Directives%20Final 032024.pdf, at 5

{C}[2]{C} See, e.g., FERC and NERC, Winter Storm Elliott Report: Inquiry into Bulk-Power System Operations During December 2022 (October 2023), https://www.ferc.gov/media/winter-storm-elliott-report-inquiry-bulk-power-system-operations-during-december-2022, at 17; FERC and NERC, *The February 2021 Cold Weather Outages in Texas and the South Central United States* (November 2021), https://www.ferc.gov/media/february-2021-cold-weather-outages-texas-and-south-central-united-states-ferc-nerc-and, at 16; FERC and NERC, *2019 FERC and NERC Staff Report: The South Central United States Cold Weather Bulk Electric System Event of January 17, 2018* (July 2019), https://www.ferc.gov/legal/staff-reports/2019/07-18-19-ferc-nerc-report.pdf; PJM, *Analysis of Operational Events and Market Impacts During the January 2014 Cold Weather Events* (May 2014), https://www.pim.com/~/media/library/reports-notices/weather-related/20140509-analysis-of-operational-events-and-market-impacts-during-the-jan-2014-cold-weather-events.ashx.">https://www.pim.com/~/media/library/reports-notices/weather-related/20140509-analysis-of-operational-events-and-market-impacts-during-the-jan-2014-cold-weather-events.ashx.

{C}[3]{C} For example, see the analysis of GADS data provided in S. Murphy et al., Resource adequacy risks to the bulk power system in North America (February 2018), https://www.sciencedirect.com/science/article/pii/S0306261917318202, with Supplementary Material including outage data available at https://ars.els-cdn.com/content/image/1-s2.0-S0306261917318202-mmc1.zip

{C}[4]{C} https://www.nerc.com/pa/Stand/Reliability%20Standards/TPL-001-4.pdf

{C}[5]{C} See, e.g., FERC and NERC, Winter Storm Elliott Report: Inquiry into Bulk-Power System Operations During December 2022 (October 2023), https://www.ferc.gov/media/winter-storm-elliott-report-inquiry-bulk-power-system-operations-during-december-2022, at 17; FERC and NERC, The February 2021 Cold Weather Outages in Texas and the South Central United States (November 2021), https://www.ferc.gov/media/february-2021-cold-weather-outages-texas-and-south-central-united-states-ferc-nerc-and, at 16; FERC and NERC, 2019 FERC and NERC Staff Report: The South Central United States Cold Weather Bulk Electric System Event of January 17, 2018 (July 2019), https://www.ferc.gov/legal/staff-reports/2019/07-18-19-ferc-nerc-report.pdf; PJM, Analysis of Operational Events and Market Impacts During the January 2014 Cold Weather Events (May 2014), https://www.pim.com/~/media/library/reports-notices/weather-related/20140509-analysis-of-operational-events-and-market-impacts-during-the-jan-2014-cold-weather-events.ashx.

{C}[6]{C} https://acore.org/wp-content/uploads/2021/07/GS Resilient-Transmission proof.pdf

{C}[7]{C} https://www.nrel.gov/docs/fy22osti/78394.pdf

{C}[8]{C} https://www.nerc.com/pa/Stand/Reliability%20Standards/TPL-001-5.pdf, at 21

{C}[9]{C} https://www.nerc.com/pa/Stand/Project202104ModificationstoPRC0022DL/2021-04_AB_PRC-028-1_Clean_03182024.pdf

{C}[10]{C} https://www.nerc.com/pa/Stand/Project202302PerformanceoflBRsDL/2023-02%20PRC-030-1 032524.pdf

Likes 0	
Dislikes 0	

Response

Bobbi Welch - Midcontinent ISO, Inc. - 2, Group Name ISO/RTO Council Standards Review Committee (SRC) Project 2023-07 TPL-008-1 Draft #2

Answer	
Document Name	2023-07_Unofficial_Comment_Form_Draft 2_SRC_08-22-24_final.docx

Comment

DRAFT ERO Enterprise Process for TPL-008-1 Benchmark Weather Event Development and Maintenance

The process document says," Refer to the NERC **Glossary of Terms** for the below capitalized terms used in this process." While NERC may have defined these terms, the following terms are **not** currently in the NERC Glossary of Terms.

• Affected Regional Entity (ARE)

• Compliance Enforcement Authority (CEA)

• Coordinated Oversight

• Extreme Temperature Assessment (ETA)

• Lead Regional Entity (LRE)

• Multi-Region Registered Entity (MRR	E)	
Relevance to Canada		
The SRC requests that Canadian provinces	be considered within the ERO benchmark library.	
Need for regional application of benchm	leed for regional application of benchmark events for PCs covering large areas	
SRC requests clarification regarding the following. Is an entity required to use the same benchmark event across its entire footprint or can an entity use different events for different areas of its footprint? For example, if an SRC member selects a benchmark event that has high impacts concentrated in its southern Region for its first iteration, could the next 5-year iteration use a benchmark event that has high impacts concentrated in that member's Central Region?		
Resource uncertainty in the Planning Ho	rizon may lead to unsolvable study cases.	
available. Many states have firm policies di future cases being un-solvable without large studied, the greater the corresponding unce	Extreme Temperature Assessments are performed, there may be great uncertainty as to the resources riving unit deactivations, but replacement resource location and size may be unknown. This may lead to e reactive or replacement power assumptions. Furthermore, the farther out in the future an extreme case is entainties in resource availability due to extreme weather conditions become; study requirements on this topic roject 2024-02 Energy Assurance Planning Horizon SAR.	
Likes 0		
Dislikes 0		
Response		
Bob Cardle - Bob Cardle On Behalf of: M 3, 1, 5; Tyler Brun, Pacific Gas and Elect	arco Rios, Pacific Gas and Electric Company, 3, 1, 5; Sandra Ellis, Pacific Gas and Electric Company, ric Company, 3, 1, 5; - Bob Cardle	
3, 1, 5; Tyler Brun, Pacific Gas and Elect		
3, 1, 5; Tyler Brun, Pacific Gas and Elect Answer		
3, 1, 5; Tyler Brun, Pacific Gas and Elect Answer Document Name Comment A benchmark library maintained by the ERC		
3, 1, 5; Tyler Brun, Pacific Gas and Elect Answer Document Name Comment A benchmark library maintained by the ERC weather conditions should be made at Plan Extreme Heat/Cold conditions are already s	ric Company, 3, 1, 5; - Bob Cardle D is a welcome reference for transmission entities, however, local climate and geographic-specific extreme	
3, 1, 5; Tyler Brun, Pacific Gas and Elect Answer Document Name Comment A benchmark library maintained by the ERC weather conditions should be made at Plan Extreme Heat/Cold conditions are already s	D is a welcome reference for transmission entities, however, local climate and geographic-specific extreme ning Coordinator and Transmission Planner level. Sensitivity scenarios to the normal long-term planning scenarios. Adding sensitivity cases on top of these	
3, 1, 5; Tyler Brun, Pacific Gas and Elect Answer Document Name Comment A benchmark library maintained by the ERC weather conditions should be made at Plan Extreme Heat/Cold conditions are already s "sensitivity scenarios" is redundant and unn	D is a welcome reference for transmission entities, however, local climate and geographic-specific extreme ning Coordinator and Transmission Planner level. Sensitivity scenarios to the normal long-term planning scenarios. Adding sensitivity cases on top of these	
3, 1, 5; Tyler Brun, Pacific Gas and Elect Answer Document Name Comment A benchmark library maintained by the ERC weather conditions should be made at Plan Extreme Heat/Cold conditions are already s "sensitivity scenarios" is redundant and unn Likes 0	D is a welcome reference for transmission entities, however, local climate and geographic-specific extreme ning Coordinator and Transmission Planner level. Sensitivity scenarios to the normal long-term planning scenarios. Adding sensitivity cases on top of these	
3, 1, 5; Tyler Brun, Pacific Gas and Elect Answer Document Name Comment A benchmark library maintained by the ERC weather conditions should be made at Plan Extreme Heat/Cold conditions are already s "sensitivity scenarios" is redundant and unn Likes 0 Dislikes 0	D is a welcome reference for transmission entities, however, local climate and geographic-specific extreme ning Coordinator and Transmission Planner level. Sensitivity scenarios to the normal long-term planning scenarios. Adding sensitivity cases on top of these	
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3, 1, 5; Tyler Brun, Pacific Gas and Elect Answer Document Name Comment A benchmark library maintained by the ERC weather conditions should be made at Plan Extreme Heat/Cold conditions are already s "sensitivity scenarios" is redundant and unn Likes 0 Dislikes 0 Response	o is a welcome reference for transmission entities, however, local climate and geographic-specific extreme ning Coordinator and Transmission Planner level. Sensitivity scenarios to the normal long-term planning scenarios. Adding sensitivity cases on top of these ecessarily burdensome to transmission entities.	

Comment	
ERCOT joins the comments submitted by the	ne IRC SRC and adopts them as its own.
Likes 0	
Dislikes 0	
Response	
Elizabeth Davis - Elizabeth Davis On Ber	nalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis
Answer	
Document Name	TPL-008-1 Process Flow.pdf
Comment	
ease of use and clarity.	adds a process flow (attached) to assist in document organization and structure that are very important to Team for all their hard work and consideration of the IRC SRC and PJM submitted comments.
Pow wants to thank NERC and the Project	Team for all their hard work and consideration of the IRC SRC and PJW submitted comments.
Likes 0	
Dislikes 0	
Response	
John Brewer - National Energy Technolo	gy Laboratory - 9 - NA - Not Applicable
Answer	
Document Name	
Comment	
A more inclusive process for review and ap will go through the more inclusive review pr	proval of benchmark temperature events should be developed. Currently, only events submitted by an entity ocess by review panel.
Likes 0	
Dislikes 0	
Response	
Comments submitted by Long Is	sland Power Authority

Submitter's Name	
Answer	Y/N
Document Name	(if an attachment is provided by submitter)
Comment	
Submitter's comments	
Likes 0	# of other submitters who agree with these comments
Dislikes 0	# of other submitters who disagree with these comments
Response	
(Drafting team's response	e to submitter's comments)
Submitter's Name	
Answer	Y/N
Document Name	(if an attachment to comments is provided by submitter)
Comment	
Submitter's comments	
Likes 0	# of other submitters who agree with these comments
Dislikes 0	# of other submitters who disagree with these comments
Response	
(Drafting team's response	e to submitter's comments)
Submitter's Name (group info also provided)	
Answer	Y/N
Document Name	(if an attachment to comments is provided by submitter)
Comment	
Submitter's comments	
Likes 0	# of other submitters who agree with these comments
Dislikes 0	# of other submitters who disagree with these comments
Response	

