Comment Report

Project Name: 2021-01 Modifications to MOD-025 and PRC-019 | Draft 2

Comment Period Start Date: 4/25/2023 Comment Period End Date: 6/8/2023

Associated Ballots: 2021-01 Modifications to MOD-025 and PRC-019 MOD-025-3 AB 2 ST

2021-01 Modifications to MOD-025 and PRC-019 MOD-025-3 Implementation Plan AB 2 OT

2021-01 Modifications to MOD-025 and PRC-019 PRC-019-3 AB 2 ST

2021-01 Modifications to MOD-025 and PRC-019 PRC-019-3 Implementation Plan AB 2 OT

There were 70 sets of responses, including comments from approximately 178 different people from approximately 120 companies representing 10 of the Industry Segments as shown in the table on the following pages.

Questions

- 1. Do you agree the language proposed in MOD-025-3 Requirement R1 and R2? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.
- 2. Do you agree the language proposed in MOD-025-3 Requirement R3? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.
- 3. Do you agree the language proposed in MOD-025-3 Requirement R4? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.
- 4. Do you agree the language proposed in MOD-025-3 Attachment 1? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.
- 5. Do you agree the language proposed in MOD-025-3 Attachment 2? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.
- 6. Do you agree the language proposed in MOD-025-3 Attachment 3? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.
- 7. The SDT believes the language of MOD-025-3 addresses the issues outlined in the two SARs 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.
- 8. The SDT proposes a 1-year implementation plan for MOD-025-3 Requirements R3 and R4, with an additional 2 years (3 years total) for compliance with Requirements R1 and R2. For Requirements R1 and R2 with reoccurring periodicity for existing Facilities, the Implementation Plan proposes applicable entities shall initially comply within 66 calendar months of their last performance under the respective requirements of MOD-025-2 (Requirement R1, R2, and R3). Would these proposed timeframes give enough time to put into place process, procedures or technology to meet the proposed language? If you think an alternate timeframe is needed, please propose an alternate implementation plan and time period, and provide a detailed explanation of actions planned to meet the implementation deadline.
- 9. Do you agree the language proposed in PRC-019-3 Requirement R1? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.
- 10. Do you agree the language proposed in PRC-019-3 Requirement R2? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.
- 11. Do you agree the language proposed in PRC-019-3 Attachment 1? If you do not agree, please provide your recommendation and, if

appropriate, technical or procedural justification.

- 12. The SDT believes the language of PRC-019-3 addresses the issues outlined in the two SARs 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.
- 13. The SDT proposes a 1-year implementation plan for PRC-019-3 Requirement R2, with an additional 1 years (2 years total) for compliance with Requirements R1. The reoccurring 5-year periodicity of Requirement R1 has been removed. Would these proposed timeframes give enough time to put into place process, procedures or technology to meet the proposed language? If you think an alternate timeframe is needed, please propose an alternate implementation plan and time period.

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
BC Hydro and Power Authority	Adrian Andreoiu	1	WECC	BC Hydro	Hootan Jarollahi	BC Hydro and Power Authority	3	WECC
					Helen Hamilton Harding	BC Hydro and Power Authority	5	WECC
					Adrian Andreoiu	BC Hydro and Power Authority	1	WECC
DTE Energy - Detroit Edison Company		5		DTE Energy - DTE Electric	Karie Barczak	DTE Energy - Detroit Edison Company	3	RF
					Adrian Raducea	DTE Energy - Detroit Edison	5	RF
					patricia ireland	DTE Energy	4	RF
Southwest	Charles	2	MRO,SPP RE,WECC	SRC 2023	Charles Yeung	SPP	2	MRO
Power Pool, Inc. (RTO)	Yeung	reung			Ali Miremadi	CAISO	1	WECC
					Helen Lainis	IESO	1	NPCC
					Matt Goldberg	ISONE	1	NPCC
					Bobbi Welch	Midcontinent ISO, Inc.	2	MRO
					Greg Campoli	NYISO	1	NPCC
					Elizabeth Davis	PJM	2	RF
					Kennedy Meier	Electric Reliability Council of Texas, Inc.	2	Texas RE
Santee Cooper	Chris Wagner	1		Santee Cooper	Debbie Schneider	Santee Cooper	1,3,5,6	SERC
					Paul Camilletti	Santee Cooper	1,3,5,6	SERC
					Anthony Noisette	Santee Cooper	1,3,5,6	SERC
WEC Energy Group, Inc.	Christine Kane			WEC Energy Group	Christine Kane	WEC Energy Group	3	RF
					Matthew Beilfuss	WEC Energy Group, Inc.	4	RF
					Clarice Zellmer	WEC Energy	5	RF

						Group, Inc.		
					David Boeshaar	WEC Energy Group, Inc.	6	RF
ACES Power Marketing	Jodirah Green	1,3,4,5,6	MRO,RF,SERC,Texas RE,WECC	ACES Collaborators	Bob Soloman	Hoosier Energy Electric Cooperative	1	RF
					Kevin Lyons	Central Iowa Power Cooperative	1	MRO
					Scott Brame	North Carolina Electric Membership Corporation	3,4,5	SERC
					Amber Skillern	East Kentucky Power Cooperative	1	SERC
Eversource Energy				Eversource	Joshua London	Eversource Energy	1	NPCC
-					Vicki O'Leary	Eversource Energy	3	NPCC
MRO	Jou Yang	u Yang 1,2,3,4,5,6	MRO	MRO NSRF	Bobbi Welch	Midcontinent ISO, Inc.	2	MRO
					Chris Bills	City of Independence, Power and Light Department	5	MRO
					Fred Meyer	Algonquin Power Co.	3	MRO
					Christopher Bills	City of Independence Power & Light	3,5	MRO
					Larry Heckert	Alliant Energy Corporation Services, Inc.	4	MRO
					Marc Gomez	Southwestern Power Administration	1	MRO
					Matthew Harward	Southwest Power Pool, Inc. (RTO)	2	MRO
					Bryan Sherrow	Board of Public Utilities	1	MRO
					Terry Harbour	Berkshire	1	MRO

						Hathaway Energy - MidAmerican Energy Co.		
					Terry Harbour	MidAmerican Energy Company	1,3	MRO
					Jamison Cawley	Nebraska Public Power District	1,3,5	MRO
					Seth Shoemaker	Muscatine Power & Water	1,3,5,6	MRO
					Michael Brytowski	Great River Energy	1,3,5,6	MRO
					Shonda McCain	Omaha Public Power District	6	MRO
					George E Brown	Pattern Operators LP	5	MRO
					George Brown	Acciona Energy USA	5	MRO
					Jaimin Patel	Saskatchewan Power Cooperation	1	MRO
					Kimberly Bentley	Western Area Power Administration	1,6	MRO
					Jay Sethi	Manitoba Hydro	1,3,5,6	MRO
					Michael Ayotte	ITC Holdings	1	MRO
FirstEnergy - FirstEnergy Corporation	Mark 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
Michael	Michael		WECC	PG&E All	Marco Rios	Pacific Gas	1	WECC

Johnson	Johnson			Segments		and Electric Company		
					Sandra Ellis	Pacific Gas and Electric Company	3	WECC
					Frank Lee	Pacific Gas and Electric Company	5	WECC
Southern Company - Southern Company Services, Inc.	Pamela Frazier		MRO,RF,SERC,Texas RE,WECC	Southern Company	Matt Carden	Southern Company - Southern Company Services, Inc.	1	SERC
					Joel Dembowski	Southern Company - Alabama Power Company	3	SERC
					Jim Howell, Jr.	Southern Company - Southern Company Generation	5	SERC
					Ron Carlsen	Southern Company - Southern Company Generation	6	SERC
Northeast Power Coordinating Council	Ruida Shu	ida Shu 1,2,3,4,5,6,7,8,9,10 NPCC	NPCC	NPCC RSC	Gerry Dunbar	Northeast Power Coordinating Council	10	NPCC
					Alain Mukama	Hydro One Networks, Inc.	1	NPCC
					Deidre Altobell	Con Edison	1	NPCC
					Jeffrey Streifling	NB Power Corporation	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	1	NPCC

	Electric Power Company		
James Grant	NYISO	2	NPCC
John Pearson	ISO New England, Inc.	2	NPCC
Harishkumar Subramani Vijay Kumar	Independent Electricity System Operator	2	NPCC
Randy MacDonald	New Brunswick Power Corporation	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
Glen Smith	Entergy Services	4	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
					ALAN ADAMSON	New York State Reliability Council	10	NPCC
					David Kiguel	Independent	7	NPCC
					Joel Charlebois	AESI	7	NPCC
					John Hastings	National Grid	1	NPCC
					Michael Jones	National Grid USA	1	NPCC
					Joshua London	Eversource Energy	1	NPCC
Stephen Whaite	Stephen Whaite			ReliabilityFirst Ballot Body Member and Proxies	Lindsey Mannion	ReliabilityFirst	10	RF
					Stephen Whaite	ReliabilityFirst	10	RF
Western	Steven	10		WECC	Steve Rueckert	WECC	10	WECC
Electricity Coordinating Council	Rueckert				Phil O'Donnell	WECC	10	WECC
Tim Kelley	Tim Kelley	Γim Kelley	WECC	SMUD / 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
Associated Electric Cooperative,	Todd Bennett	3		AECI	Michael Bax	Central Electric Power Cooperative	1	SERC

(Miss	ouri)		
	ic Power erative	3	
	l A ic Power erative	3	
	l A ic Power erative	1	
Electi	le Powei ic erative	r 1	
Powe	Electric - erative,	1	
Powe	lectric erative,	3	
) Electric erative	3	
) Electric erative	1	
		1	
		3	
Ryan Ziegler Associated Electronic Coop Inc.		1	
Brian Associated Ackermann Electric Coop Inc.		6	
Brad Haralson Associated Coop Inc.		5	

1. Do you agree the language proposed and, if appropriate, technical or procedu	in MOD-025-3 Requirement R1 and R2? If you do not agree, please provide your recommendation ural justification.
Wendy Kalidass - U.S. Bureau of Reclar	nation - 5
Answer	No
Document Name	
Comment	
	om 90 days to 30 days within which to provide information to the Transmission Planner. Reclamation to the time for entities to complete their required internal review and routing processes before providing
Likes 0	
Dislikes 0	
Response	
	: Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities I, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike
Answer	No
Document Name	
Comment	
Tacoma Power agrees with the language p 025-3 R1 and the references to Attachmen	proposed for MOD-025-3 R2. However, Tacoma Power does not agree to the proposed changes for MOD- at 1.
Instead of referring to Attachment 1, Tacor language as sub-Requirements.	na Power recommends incorporating the required actions from Attachment 1 into the Requirement R1
confusing for entities who are trying to und	ide a mix of both actions needed for compliance and optional guidance for how to comply. This mix is erstand the baseline for compliance, and may also confuse ERO auditors who interpret the examples as needs moving the examples or guidance of how to comply to either the Technical Rationale or an
Likes 0	
Dislikes 0	
Response	
Christine Kane - WEC Energy Group, In	c 3, Group Name WEC Energy Group
Answer	No

Document Name	
Comment	
WEC Energy Group supports the MRO NSI	RF and EEI comments.
Likes 0	
Dislikes 0	
Response	
Nazra Gladu - Manitoba Hydro - 1	
Answer	No
Document Name	
Comment	
the proposed required verifying documenta capability curve (D-curve) for the old plant (excitation and governor/turbine change), the	d and adding more description to the process may not translate to more accuracy in the modeling. Some of tion is irrelevant or/ and is covered in other NERC standards such as the manufacturer-supplied thermal (some of these facility has been updated/modified such as rating changes due to winding update, or e development of facility D-cure (instead of verification it), the limiters (that has been provided as part of ailed additional information that is needed should be left to the planners depending on the quality of the sues.
Likes 0	
Dislikes 0	
Response	
Donald Lock - Talen Generation, LLC - 5	
Answer	No
Document Name	
Comment	
an approach will not work. None of the TPs	taking mandatory the corrections of MOD-025-2 Note 2, but this is proposed to be done for GOs only. Such is we deal with accept MOD-025-2 Note 2 corrections, and there is no point to making GOs do more work just 3 should require TPs to accept and use the corrected results.
Likes 0	
Dislikes 0	
Response	

Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC				
Answer	No			
Document Name				
Comment				
BPA supports comments submitted by the linformation to an external entity after verific	JS Bureau of Reclamation that 90-days, not 30-days, is an appropriate timeframe for entities to provide ation.			
Likes 0				
Dislikes 0				
Response				
Joseph OBrien - NiSource - Northern Ind	liana Public Service Co 6			
Answer	No			
Document Name				
Comment				
There appears to be a lot of discussion in the	ne industry questioning the usefulness for MOD-025.			
Likes 0				
Dislikes 0				
Response				
Mark Garza - FirstEnergy - FirstEnergy C	orporation - 4, Group Name FE Voter			
Answer	No			
Document Name				
Comment				

FirstEnergy supports comments from EEI related to Q1 and Q4 which state:

EEI does not support the reduction of time from 90 days to 30 days for responsible entities to comply with Requirements R1 and R2. The proposed changes are administrative and do not conform to the principles previously identified in the Paragraph 81 initiative. (Ref. Paragraph 81 Criteria - B1. Administrative - The Reliability Standard requirement requires responsible entities to perform a function that is administrative in nature, does not support reliability and is needlessly burdensome. Administrative functions do not inherently negatively impact reliability directly and, where possible, should be eliminated or modified for purposes of efficiency and to allow the ERO and entities to appropriately allocate resources.) While EEI recognizes that these Requirements provide TPs with verified Real and Reactive Power capability for applicable facilities, we are unaware of any Reliability improvements that would be achieved by reducing the reporting time from 90 days to 30 days. EEI further notes that work conducted under Requirements R1 and R2 often requires the assistance of third-party contractors/consultants necessitating the need for the continuance of the 90-day timeframe.

Likes 0	
Dislikes 0	
Response	
Andy Thomas - Duke Energy - 1,3,5,6 - S	ERC,RF
Answer	No
Document Name	
Comment	
	3.2 Composite capability curve" requirements that produce Composite Figure 1: Example Composite r. PQ Data Table requirement provides adequate data and should be retained.
Likes 0	
Dislikes 0	
Response	
Daniel Gacek - Exelon - 1	
Answer	No
Document Name	
Comment	
Exelon concurs with the comments submitted	ed by the EEI.
Likes 0	
Dislikes 0	
Response	
Rajesh Geevarghese - Rajesh Geevarghe	ese On Behalf of: Kinte Whitehead, Exelon, 1, 3; - Rajesh Geevarghese
Answer	No
Document Name	
Comment	
Exelon concurs with the comments submitted	ed by the EEI.
Likes 0	
Dislikes 0	

Response	
Donna Wood - Tri-State G and T Associa	tion, Inc 1
Answer	No
Document Name	
Comment	
Tri-State does not agree with the 30 day cal	endar verificaiton date for R1 and R2. Tri-State suggests a 90 day calendar verification date.
Likes 0	
Dislikes 0	
Response	
Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Grou	p Name MRO NSRF
Answer	No
Document Name	
Comment	
The MRO NSRF is concerned that Requirer requirements are fulfilling the following scop	ment R1 & R2 is not meeting the intention of the SAR's scope. The MRO NSRF does not believe these se items:
	erification activities produce data and information that can be used by Transmission Planners and Planning accurate and reasonable plant active and reactive capability data (including possibly representation of the pability and limiters, where applicable).
Ensure that each Planning Coordinator a reactive capability data verification	and the area Transmission Planners develop requirements for the Planning Coordinator area real and
3. Ensure that Generator Owners provide th	e data specified by the Planning Coordinator and Transmission Planners for the Planning Coordinator area
Coordinators and include SAR Scope Item 3	cope Item 1, then SAR Scope Item 2 must be developed by the Transmission Planners and Planning 3, et al. This approach would be similar to the approach of Transmission Planners & Planning Coordinators cifications for Real & Reactive Power testing and reporting.
Likes 0	

Dislikes 0	
Response	
George E Brown - Pattern Operators LP	- 5
Answer	No
Document Name	
Comment	
Pattern Energy supports Midwest Reliability	Organization's NERC Standards Review Forum's (MRO NSRF) comments.
Likes 0	
Dislikes 0	
Response	
Deanna Carlson - Cowlitz County PUD -	5
Answer	No
Document Name	
Comment	
Cowlitz County PUD No. 1 disagrees with s Planner and recommends keeping with the	hortening the timeline from 90 days to 30 days within which to provide information to the Transmission current 90 days timeline.
Likes 0	
Dislikes 0	
Response	
Wayne Sipperly - North American Genera	ator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF
Answer	No
Document Name	
Comment	
The NAGE does not support the reduction of	of time from 00 days to 30 days for responsible entities to comply with Peguirements P1 and P2. The

The NAGF does not support the reduction of time from 90 days to 30 days for responsible entities to comply with Requirements R1 and R2. The proposed changes are administrative and do not conform to the principles previously identified in the Paragraph 81 initiative. We are unaware of any Reliability improvements that would be achieved by reducing the reporting time from 90 days to 30 days. We note that work conducted under Requirements R1 and R2 often requires the assistance of third-party contractors/consultants necessitating the need for the continuance of the 90 day time frame.

Likes 1	LaKenya Vannorman, N/A, Vannorman LaKenya
Dislikes 0	
Response	
Anna Todd - Southern Indiana Gas and E	lectric Co 1,3,5,6 - RF
Answer	No
Document Name	
Comment	
Southern Indiana Gas & Electric Company (days for R1 and R2.	SIGE) supports comments submitted by the EEI and would request having a reporting period longer than 30
Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Pub	lic Service Co 1
Answer	No
Document Name	
Comment	
AZPS supports the following comments submitted by EEI on behalf of its members: EEI does not support the reduction of time from 90 days to 30 days for responsible entities to comply with Requirements R1 and R2. The proposed changes are administrative and do not conform to the principles previously identified in the Paragraph 81 initiative. (Ref. Paragraph 81 Criteria - B1. Administrative - The Reliability Standard requirement requires responsible entities to perform a function that is administrative in nature, does not support reliability and is needlessly burdensome. Administrative functions do not inherently negatively impact reliability directly and, where possible, should be eliminated or modified for purposes of efficiency and to allow the ERO and entities to appropriately allocate resources. While EEI recognizes that these Requirements provide TPs with verified Real and Reactive Power capability for applicable facilities, we are unaware of any Reliability improvements that would be achieved by reducing the reporting time from 90 days to 30 days. EEI further notes that work conducted under Requirements R1 and R2 often requires the assistance of third party contractors/consultants necessitating the need for the continuance of the 90 day timeframe. Likes 0	
Dislikes 0	
Response	
Natalie Johnson - Enel Green Power - 5	
Answer	No

DINSRF.
outhern Company Services, Inc 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern
No
and do not conform to the principles previously identified in the Paragraph 81 initiative. We are unaware of achieved by reducing the reporting time from 90 days to 30 days. We note that work conducted under a assistance of third party contractors/consultants necessitating the need for the continuance of the 90 day a composite capability curve or PQ data table. This is redundant representation of data and requires multiple applete. The first sentence of Attachment 2 such that it does not state "a completed report shall contain the following that entities can choose the reporting options that are appropriate but not be subject to having to submit all of
cc
No No

Dislikes 0	
Response	
Srikanth Chennupati - Entergy - 1,3,5,6 -	SERC
Answer	No
Document Name	
Comment	
than the proposed 30 calendar days to gene	quirement R1.3 or M1. Use of a vendor, such as Kestrel, to perform test and provide a report will take more erate the test report, complete Site reviews of the report, address/incorporate comments, generate the d Engineering Report, and transmit the Engineering Report to Transmission Planner. Recommend keeping -025-2.
Likes 0	
Dislikes 0	
Response	
Andy Fuhrman - Andy Fuhrman On Beha	If of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman
Andy Fuhrman - Andy Fuhrman On Beha Answer	No
•	
Answer Document Name	
Answer Document Name Comment R1 and R2 require the GO and TO to send require the GO/TO to send this information and R2 leave open the possibility that the term of the could result in unusable modeling data requirement that allows the modeling party parameters "mutually agreeable" would professional p	Information to the TP even if that information is not needed by the TP. R1 and R2 could be updated to when requested by a TP, PC, or other functional registration when required for modeling. Furthermore, R1 ests that are run by the GO/TO may not be performed under the parameters required by the modeling party. or the need to re-run the tests. If the data is needed for modeling, then MPC suggests drafting a to specify that the test is run under specific conditions, if possible. Some language that makes the sect the GO/TO from unreasonable requests but has the potential to lead to a situation where the two parties that many details would need to be considered in writing the requirement this way.
Answer Document Name Comment R1 and R2 require the GO and TO to send require the GO/TO to send this information and R2 leave open the possibility that the term of the could result in unusable modeling data requirement that allows the modeling party parameters "mutually agreeable" would proceed to terms. MPC acknowledges	Information to the TP even if that information is not needed by the TP. R1 and R2 could be updated to when requested by a TP, PC, or other functional registration when required for modeling. Furthermore, R1 ests that are run by the GO/TO may not be performed under the parameters required by the modeling party. or the need to re-run the tests. If the data is needed for modeling, then MPC suggests drafting a to specify that the test is run under specific conditions, if possible. Some language that makes the sect the GO/TO from unreasonable requests but has the potential to lead to a situation where the two parties that many details would need to be considered in writing the requirement this way.
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Answer Document Name Comment R1 and R2 require the GO and TO to send require the GO/TO to send this information and R2 leave open the possibility that the term of the could result in unusable modeling data requirement that allows the modeling party parameters "mutually agreeable" would protocannot come to terms. MPC acknowledges MPC also supports MRO NERC Standards Likes 0 Dislikes 0	Information to the TP even if that information is not needed by the TP. R1 and R2 could be updated to when requested by a TP, PC, or other functional registration when required for modeling. Furthermore, R1 ests that are run by the GO/TO may not be performed under the parameters required by the modeling party. or the need to re-run the tests. If the data is needed for modeling, then MPC suggests drafting a to specify that the test is run under specific conditions, if possible. Some language that makes the sect the GO/TO from unreasonable requests but has the potential to lead to a situation where the two parties that many details would need to be considered in writing the requirement this way.
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Document Name	
Comment	
Entergy has numerous concerns with requi	irements in proposed standard change reference to comments submitted with this ballot.
Likes 0	
Dislikes 0	
Response	
Joshua London - Eversource Energy - 1,	Group Name Eversource
Answer	No
Document Name	
Comment	
Eversource supports the comments submitt	ted by EEI and the NPCC RSC.
Likes 0	
Dislikes 0	
Response	
Alan Kloster - Alan Kloster On Behalf of: 5, 1; Marcus Moor, Evergy, 3, 6, 5, 1; - Al	: Jennifer Flandermeyer, Evergy, 3, 6, 5, 1; Jeremy Harris, Evergy, 3, 6, 5, 1; Kevin Frick, Evergy, 3, 6, an Kloster
Answer	No
Document Name	
Comment	
Evergy supports and incorporates by refere	ence the comemnts of the Edison Electric Institute (EEI) to questions #1.
Likes 0	
Dislikes 0	
Response	
Steven Taddeucci - NiSource - Northern	Indiana Public Service Co 3
Answer	No
Document Name	
Comment	

NIPSCO does not support the reduction of amount of time for review and routing.	time from 90 days to 30 days to comply with Requirements R1 and R2, and believes 90 days is the proper
Likes 0	
Dislikes 0	
Response	
Jamison Cawley - Nebraska Public Powe	er District - 1
Answer	No
Document Name	
Comment	
SPP RTO region, the PC is responsible for and has an established annual schedule for SPP screens the information for model usa at SPP.org and documented in the MDAG responsible street of the screen street in the MDAG responsible street of the screen street in the MDAG responsible street of the screen street in the MDAG responsible street in the MDAG responsible street in the screen street in the screet in the screen street in	e ultimate authority for the collection of detailed modeling data from the Generator Owner and g Coordinator to Section 4. Applicability, and modification of Requirement R1.3. language as follows: "1.3. ance with Attachment 2, to the Transmission Planner or Planning Coordinator as appropriate, in tion Agreements, within 30 calendar days after the verification date. The verification date, as specified in at the engineering review or engineering analysis is complete. The verification date is the basis of the
Likes 0	
Dislikes 0	
Response	
Kimberly Turco - Constellation - 6	
Answer	No
Document Name	
Comment	

Constellation does not agree with the shortened time period for submittal to Transmission Planner from 90 to 30 calendar days. External vendors are routinely hired to perform the testing for the Generator Owner and a 30 day window does not provide enough time to receive the report from the vendor and then perform the necessary internal reviews to ensure accuracy. In addition, many Transmission Planners still use their own version of a

proposed. Constellation requests that obligated Transmission Planner and not prescribed by is now requesting "one per unit voltage" calculations generating units will need to in produce the necessary VARs. Constellation Constellation also requests that the SDT evidue to ambient temperature of air-cooled miles.	
Likes 0	
Dislikes 0	
Response	
Hillary Creurer - Hillary Creurer On Beha	lf of: Lori Frisk, Allete - Minnesota Power, Inc., 1; - Hillary Creurer
Answer	No
Document Name	
Comment	
Minnesota Power supports EEI's comments	s.
Likes 0	
Dislikes 0	
Response	
Claudine Bates - Black Hills Corporation	- 6
Answer	No
Document Name	
Comment	
Black Hills Corporation does not support the vendors/consultants and the full 90 days cu	e proposed language for Requirement R1 and R2. As a whole, the majority of entities utilize third party rrently applicable is needed.
Likes 0	
Dislikes 0	

Response	
Sheila Suurmeier - Black Hills Corporation	on - 5
Answer	No
Document Name	
Comment	
Black Hills Corporation does not support the vendors/consultants and the full 90 days cu	e proposed language for Requirement R1 and R2. As a whole, the majority of entities utilize third party rrently applicable is needed.
Likes 0	
Dislikes 0	
Response	
Micah Runner - Black Hills Corporation -	.1
Answer	No
Document Name	
Comment	
Black Hills Corporation does not support the vendors/consultants and the full 90 days cu	e proposed language for Requirement R1 and R2. As a whole, the majority of entities utilize third party rrently applicable is needed.
Likes 0	
Dislikes 0	
Response	
Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez	
Answer	No
Document Name	
Comment	
	eriod from 90 days to 30. In general language should be adjusted to state that the GO needs to provide the Transmission System. The NERC ROP does not require a GO to map to a TP. This is the largest gap to the
Likes 0	

Dislikes 0	
Response	
Daniela Hammons - CenterPoint Energy	Houston Electric, LLC - 1
Answer	No
Document Name	
Comment	
CenterPoint Energy Houston Electric, LLC	supports comments submitted by EEI.
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA	A - Not Applicable - NA - Not Applicable
Answer	No
Document Name	
Comment	
changes are administrative and do not conf Administrative - The Reliability Standard red reliability and is needlessly burdensome. A eliminated or modified for purposes of effici- Requirements provide TPs with verified Red would be achieved by reducing the reporting	from 90 days to 30 days for responsible entities to comply with Requirements R1 and R2. The proposed form to the principles previously identified in the Paragraph 81 initiative. (Ref. Paragraph 81 Criteria - B1. quirement requires responsible entities to perform a function that is administrative in nature, does not support dministrative functions do not inherently negatively impact reliability directly and, where possible, should be ency and to allow the ERO and entities to appropriately allocate resources.) While EEI recognizes that these all and Reactive Power capability for applicable facilities, we are unaware of any Reliability improvements that g time from 90 days to 30 days. EEI further notes that work conducted under Requirements R1 and R2 often actors/consultants necessitating the need for the continuance of the 90 day timeframe.
Likes 0	
Dislikes 0	
Response	
Alison MacKellar - Constellation - 5	
Answer	No
Document Name	
Comment	

Constellation does not agree with the shortened time period for submittal to Transmission Planner from 90 to 30 calendar days. External vendors are routinely hired to perform the testing for the Generator Owner and a 30 day window does not provide enough time to receive the report from the vendor and then perform the necessary internal reviews to ensure accuracy. In addition, many Transmission Planners still use their own version of a spreadsheet/form to gather the test data in lieu of the MOD-025 Attachment and typically allow for a longer submittal window that was is currently being proposed. Constellation requests that obligation on what form to provide modeling data, and the submission timeline be decided by each applicable Transmission Planner and not prescribed by the NERC Standard or be reverted back to the current 90-day submission window.

The proposed language is now requesting "one per unit voltage" calculation without any supporting methodology. This is not feasible for typical testing conditions as most synchronous generating units will need to increase voltage to 1.05 per unit in lagging and 0.95 per unit leading during operational testing to be able to produce the necessary VARs. Constellation requests the SDT provide additional guidance on how the "one per unit voltage" is intended to be used.

Constellation also requests that the SDT evaluate the implications of on-line test data not matching the engineering analysis. This mismatch could occur due to ambient temperature of air-cooled machines, system limitations, sister unit var output if online during the test, river flow for hydro generating units, generator terminal voltage limits, etc. This mismatch of data could potentially cause the Transmission Planner to reject the test results of a generating unit and therefore require the Generator Owner to re-perform the test.	
Alison Mackellar on behalf of Constella	tion Segments 5 and 6
Likes 0	
Dislikes 0	
Response	
David Jendras Sr - Ameren - Amerer	Services - 3
Answer	No
Document Name	
Comment	
R1: We would like more clarification on	what kind of engineering analysis is acceptable.
Likes 0	
Dislikes 0	
Response	
Utility District, 3, 6, 4, 1, 5; Kevin Sm	: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal ith, Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, 3 Municipal Utility District, 3, 6, 4, 1, 5; - Tim
Answer	No
Document Name	
Comment	

SMUD and BANC support the comments pr	rovided by Tacoma Power.
Likes 0	
Dislikes 0	
Response	
Nicolas Turcotte - Hydro-Quebec (HQ) -	1
Answer	No
Document Name	
Comment	
	followed by the acronym when referencing the acronym PQ for the first iteration. responsible to complete the engineering review or analysis?
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.
Likes 0	
Dislikes 0	
Response	
	Behalf of: Frank Lee, Pacific Gas and Electric Company, 3, 1, 5; Marco Rios, Pacific Gas and Electric as and Electric Company, 3, 1, 5; - Michael Johnson, Group Name PG&E All Segments
Answer	No
Document Name	
Comment	

: PG&E supports the comments provided by the Edison Electric Institute (EEI) related to the reduction in time from 90 days to 30 days.		
Likes 0		
Dislikes 0		
Response		
Dennis Chastain - Tennessee Valley Autl	nority - 1,3,5,6 - SERC	
Answer	No	
Document Name		
Comment		
We recommend the language of R1 be revi	sed as follows:	
R1. For each of their applicable Facilities, e and inform its Transmission Planner as follows:	ach Generator Owner shall verify the Real and Reactive Power capability in accordance with Attachment 1 ows:	
1.1. Provide a report to the Transmission Plate (see footnote 1).	lanner, containing the information specified in Attachment 2, within 90 calendar days after the verification	
	nts the date that the Generator Owner's engineering review or engineering analysis is complete and serves month maximum interval for existing applicable Facilities.	
The proposed Draft 2 language for R1 and	Γhe proposed Draft 2 language for R1 and parts 1.1 and 1.2 seems cumbersome. We suggest combining into R1 and rewording.	
As noted in our comments on Draft 1, we believe the time allowed to submit the required information to the Transmission Planner should be "within 90 calendar days after the verification date" rather than 30 calendar days. For verifications that can occur up to ten years apart (for an existing applicable Facility), the reduction from 90 calendar days (in MOD-025-2) to 30 calendar days seems unwarranted.		
We recommend moving language that explains the "verification date" to a footnote.		
We recommend removal of the proposed D	raft 2 language for R1 parts 1.3.1 – 1.3.3 since this is redundant with language in Attachment 2.	
We recommend the language of R2 be revised as follows:		
R2. For each of their applicable Facilities, each Transmission Owner shall verify the Real and Reactive Power capability in accordance with Attachment 1 and inform its Transmission Planner as follows:		
2.1. Provide a report to the Transmission Planner, containing the information specified in Attachment 2, within 90 calendar days after the verification date(see footnote 2).		
(Footnote 2) The "verification date" represents the date that the Transmission Owner's engineering review or engineering analysis is complete and serves as the basis for the recurring 120 calendar month maximum interval for existing applicable Facilities.		

The rationale for these recommended changes is the same as for R1 noted above.

Likes 0
Dislikes 0

Response	
Ruchi Shah - AES - AES Corporation - 5	
Answer	No
Document Name	
Comment	
MOD-025-3 does not address the fundamental concern of inaccurate model data. The verification described does not appear to provide usable data to Transmission Planners for modeling purposes and it is unclear what the data should be used for.	
Pmax, Pmin, Qmax, and Qmin results are n	ot adequate to be used in the models for the following reasons:
Test results must be corrected for various factors (weather, temperature, etc.) in order to compare or translate into the model. Transmission Planners may not be capable of performing or understanding corrections and the corrections are not going to be perfect. Validating Pmax, Pmin, Qmax, and Qmin given these corrections provides only a ballpark comparison with potentially significant accuracy issues.	
o Test results are dependent on the current	grid state, and are not adequate for comparison as written in MOD-025-3.
Testing does not test the limits of the inverters or turbines themselves because it may stop at 0.95 PF or Power Plant Controller limits. If inverters or turbines are down, others may be able to compensate for their lack of output – however, this testing will not capture limits on inverters/turbines themselves that may have been incorrectly programmed. As this reads as more of a performance test standard, this is a performance issue that would not be tested. Section 3 – "All aux equipment in service for normal operation." Recommend the SDT to consider how this may impact testing. For example, capacitors switching in during testing will back the inverters/turbines off from providing support. If the intention of the requirement is to find the true limits of nverters or turbines, it may be advantageous to consider testing without aux equipment in normal operation.	
Likes 0	
Dislikes 0	
Response	
Adrian Raducea - DTE Energy - Detroit Edison Company - 5, Group Name DTE Energy - DTE Electric	
Answer	Yes
Document Name	
Comment	
30 days is too agressive to provide final data to TP.	
Likes 0	

Dislikes 0		
Response		
Jennifer Bray - Arizona Electric Power Co	ooperative, Inc 1	
Answer	Yes	
Document Name		
Comment		
AEPC signed on to ACES comments below: While we have no specific issue with the language of the proposed Requirements R1 and R2, the language in both is nearly identical. We recommend combining Requirements R1 and R2 into a single requirement.		
Likes 0		
Dislikes 0		
Response		
Junji Yamaguchi - Hydro-Quebec (HQ) -	5	
Answer	Yes	
Document Name		
Comment		
R1.3.2: Suggest writing the complete term followed by the acronym when referencing the acronym PQ for the first iteration. R2.3: Suggest specifying who (the TO?) is responsible to complete the engineering review or analysis?		
Likes 0		
Dislikes 0		
Response		
Todd Bennett - Associated Electric Coop	erative, Inc 3, Group Name AECI	
Answer	Yes	
Document Name		
Comment		
AECI is supportive of the comments provided by the NAGF.		

Likes 0		
Dislikes 0		
Response		
	lf of: Dennis Sismaet, Northern California Power Agency, 4, 6, 3, 5; Jeremy Lawson, Northern y Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns	
Answer	Yes	
Document Name		
Comment		
The only potential concern would be reliand power factor load rejection) should be used	e on strictly engineering analysis for the verification. Some tie to test results (Pmax testing, De Mello zero-	
Likes 0		
Dislikes 0		
Response		
Jodirah Green - ACES Power Marketing	- 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	Yes	
Document Name		
Comment		
While we have no specific issue with the lar combining Requirements R1 and R2 into a	nguage of the proposed Requirements R1 and R2, the language in both is nearly identical. We recommend single requirement.	
Likes 0		
Dislikes 0		
Response		
Thomas Foltz - AEP - 5		
Answer	Yes	
Document Name		
Comment		
Comment		
Comment		

Dislikes 0		
Response		
Chris Wagner - Santee Cooper - 1, Group	Name Santee Cooper	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kevin Conway - Public Utility District No	. 1 of Pend Oreille County - 3 - WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Adrian Andreoiu - BC Hydro and Power		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mike Magruder - Avista - Avista Corporation - 1		
Answer	Yes	

Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Stephen Whaite - Stephen Whaite On Be Body Member and Proxies	half of: Lindsey Mannion, ReliabilityFirst , 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot	
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		
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		

Dislikes 0		
Response		
Dave Krueger - SERC Reliability Corpora	ation - 10	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Stephen Stafford - Georgia Transmission	n Corporation - NA - Not Applicable - SERC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
	ndependent Electricity System Operator - 2	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Martin Sidor - NRG - NRG Energy, Inc 6		
Answer	Yes	

Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mohamed Derbas - Sempra - San Diego	Gas and Electric - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Patricia Lynch - NRG - NRG Energy, Inc.	- 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Charles Yeung - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC, Group Name SRC 2023		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		

Response		
Kennedy Meier - Electric Reliability Cou	ncil of Texas, Inc 2	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott		
Answer		
Document Name		
Comment		
ITC - no Comment From response received from Standard Owners or SMEs		
Likes 0		
Dislikes 0		
Response		
Bret Galbraith - Seminole Electric Cooperative, Inc 6		
Answer		
Document Name		
Comment		

PRC-019

The 90-day period allowed Generation Units the ability to make changes to protection control equipment and associated devices, validate the changes via testing and report. It also allowed the unit to return to service, undergo requirement testing, and produce a report. The 90-Day period also provided time to make any required adjustments and update the report. The Technical Rational implies that the 90-day period is only for minor changes and a formal evaluation must be performed prior to making any changes. The Technical Rational also implies that all units should already meet PRC-019 requirements either before or as they return to service which would result in either significant downtime or increased costs for operation.

PRC-019		
Expanding the requirement to include the distributed control system is unacceptable. The output of the distributed control system commands to the AV are displayed in the coordination study for PRC-019 which proves coordination of the AVR limiters with the Protection Control Relay Trip limits. If the commands for voltage/VAR are held at a static point the response to the grid for voltage and VARs is controlled by the response time of the AVR not the distributed control system. The response of the Distributed Control System model is issued by the manufactured and verified in MOD-026. Reactive Power limitations are provided in MOD-025. In addition, the inclusion of Distributed Control System would create the need to identify specific control system points associated with the requirement and the scope would need to be limited to parameters associated with protection.		
PRC-019		
Seminole has concerns over the removal of the 5-year maximum time periodicity. Seminole requests additional rationale for this deletion.		
MOD-025 R4		
Second bullet allows a plan to be submitted but with no due date for completion of the plan. Why is this open ended?		
MOD-025, Attachment 1, Section II		
The value here of 20 MVA could be interpreted to mean that 20.4 MVA is rounded down to 20 MVA due to significant digits. Seminole requests NERC to clarify whether this should be 20 MVA or 20.0 MVA.		
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		
Document Name		
Comment		
R1.3.2: Suggest writing the complete term f	followed by the acronym when referencing the acronym PQ for the first iteration.	
R2.3: Suggest specifying who (the TO?) is i	responsible to complete the engineering review or analysis.	
Likes 0		
Dislikes 0		
Response		

2. Do you agree the language proposed in MOD-025-3 Requirement R3? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.		
Ruchi Shah - AES - AES Corporation - 5		
Answer	No	
Document Name		
Comment		
The proposed R3 language only requires TPs to perform a technical review of the provided documentation. They should be required to use the corrections-based documentation in their models.		
Likes 0		
Dislikes 0		
Response		
Michael Johnson - Michael Johnson On Behalf of: Frank Lee, Pacific Gas and Electric Company, 3, 1, 5; Marco Rios, Pacific Gas and Electric Company, 3, 1, 5; Sandra Ellis, Pacific Gas and Electric Company, 3, 1, 5; - Michael Johnson, Group Name PG&E All Segments		
Answer	No	
Document Name		
Comment		
PG&E supports the input provided by the Edison Electric Institute (EEI) with agreeing on the proposed language, but the second bullet should be aligned with bullet #1 and provide clarification as to the criteria to be used as the basis for TP rejection of the GO or TOs information under Requirement R3.		
Likes 0		
Dislikes 0		
Response		
David Jendras Sr - Ameren - Ameren Services - 3		
Answer	No	
Document Name		
Comment		
We also ask that some criteria be developed to clarify the intended criteria that would be used as a basis for TP rejection of the GO or TOs information under Requirement R3. Ameren would also like clarification on what kind of Planning Review is expected.		
Likes 0		

Dislikes 0	
Response	
Todd Bennett - Associated Electric Coop	perative, Inc 3, Group Name AECI
Answer	No
Document Name	
Comment	
AECI is supportive of the comments provide	ed by the NAGF.
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable	
Answer	No
Document Name	
Comment	
	age in MOD-025-3, Requirement R3 but the second bullet (i.e., Notification that the GO or TO submittal gned with the 1st bullet. To address this concern, we offer the following change to bullet 2 under
	Planner has reviewed the information and has identified a technical concern with the Real and Reactive omitted by the Generator Owner or Transmission Owner, including the basis for the technical concern.
We additionally ask that some criteria be de Requirement R3.	eveloped to clarify what would be used as a basis for TP rejection of the GO or TOs information under
Likes 0	
Dislikes 0	
Response	
Israel Perez - Israel Perez On Behalf of: Timothy Singh, Salt River Project, 3, 5, 1	Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; , 6; - Israel Perez
Answer	No
Document Name	
Comment	

SRP supports Midwest Reliability Organization's NERC Standards Review Forum's (MRO NSRF) comments.		
Likes 0		
Dislikes 0		
Response		
Micah Runner - Black Hills Corporation -	1	
Answer	No	
Document Name		
Comment		
Black Hills Corporation supports the NAGF	comments.	
Likes 0		
Dislikes 0		
Response		
Sheila Suurmeier - Black Hills Corporation	on - 5	
Answer	No	
Document Name		
Comment		
Black Hills Corporation supports the NAGF comments.		
Likes 0		
Dislikes 0		
Response		
Claudine Bates - Black Hills Corporation - 6		
Answer	No	
Document Name		
Comment		
Black Hills Corporation supports the NAGF comments.		

Likes 0	
Dislikes 0	
Response	
Hillary Creurer - Hillary Creurer On Beha	ılf of: Lori Frisk, Allete - Minnesota Power, Inc., 1; - Hillary Creurer
Answer	No
Document Name	
Comment	
Minnesota Power supports EEI's comments	S.
Likes 0	
Dislikes 0	
Response	
Jamison Cawley - Nebraska Public Powe	er District - 1
Answer	No
Document Name	
Comment	
NPPD supports comments submitted by Mi	RO NSRF.
Likes 0	
Dislikes 0	
Response	
Alan Kloster - Alan Kloster On Behalf of 5, 1; Marcus Moor, Evergy, 3, 6, 5, 1; - Al	: Jennifer Flandermeyer, Evergy, 3, 6, 5, 1; Jeremy Harris, Evergy, 3, 6, 5, 1; Kevin Frick, Evergy, 3, 6, an Kloster
Answer	No
Document Name	
Comment	
Evergy supports and incorporates by refere	ence the comemnts of the Edison Electric Institute (EEI) to questions #2.
Likes 0	
Dislikes 0	

Response	
Joshua London - Eversource Energy - 1	, Group Name Eversource
Answer	No
Document Name	
Comment	
Eversource supports the comments of EEI.	
Likes 0	
Dislikes 0	
Response	
Andy Fuhrman - Andy Fuhrman On Beh	alf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman
Answer	No
Document Name	
Comment	
	or TO may not have a use for the information. This requirement could be adjusted to specify the review only in for modeling purposes. The scope of R3 should also be expanded to include the PC, or other functional receive this information from a GO or TO.
	hat no technical concerns have been identified does not support reliability. If an entity requires the technical concern, then there is reasonable assurance that they have the information they need to perform
Likes 0	
Dislikes 0	
Response	
Srikanth Chennupati - Entergy - 1,3,5,6 -	SERC
Answer	No
Document Name	
Comment	
Entergy recommends that the language for	the proposed MOD-025-3 R3 be revised to address the following:

2. H m m F. S	 It is unclear what the measurement/evaluation criteria will be used by the Transmission Planner (TP) to review/verify the information submitted by the Generator Owner (GO). How would we recognize the validity of capability curve and other limits like OEL? We would likely just accept the data and enter it in our models even though the tested data wouldn't reach the capability curve limits. The NERC standard needs to provide specifics on what the model quality test will look like as they do for MOD-026/027. Also, if the VAR capability decreased from what was previously reported, does FAC-002 come into play whereas this may be a material change that could impact the BES reliability that the TP would need to evaluate? The SAR drafting team should clarify whether the TP should assess such a change per FAC-002 when receiving a MOD-025 report if a TP analysis is required in MOD-025. 		
ikes 0			
islikes	0		
espons	e		
asey Pe	erry - PNM Resources - 1,3 - WE	cc	
nswer		No	
ocumer	nt Name		
ommen	t		
NM supp	ports with EEI comments.		
ikes 0			
islikes	0		
espons	e		
amela F ompany		uthern Company Services, Inc 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern	
nswer		No	
ocumer	nt Name		
ommen	t		
Southern Company recommends that the language for the proposed MOD-025-3 R3 be revised to specify that the TP disclose what the neasurement/evaluation criteria will be used to review/verify the information submitted by the Generator Owner (GO). This is the subject of the SAR roject Scope, Item 2.			
ikes 0			
islikes	0		
espons	esponse		
ephen Stafford - Georgia Transmission Corporation - NA - Not Applicable - SERC			

Answer	INO
Document Name	
Comment	
TP should be provided in writing if there are is not necessary or appropriate for inclusion. If this requirement is retained, it should be r	nto the standard simply to provide an administrative function. It is agreed that any technical comments by the any comments at all. However, forcing the TP to provide a comment that there is or is not a technical issue in a Reliability Standard. Additionally, the selection of a 90-day response period appears arbitrary. The eworded to state that any technical comments should be documented and provided in writing. The 90-day is sible the TP could come up with additional technical concerns beyond 90 days.
Likes 0	
Dislikes 0	
Response	
Natalie Johnson - Enel Green Power - 5	
Answer	No
Document Name	
Comment	
Enel supports comments made by the MRC	NSRF.
Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Pub	olic Service Co 1
Answer	No
Document Name	
Comment	
AZPS supports the following comments sub	omitted by EEI on behalf of its members: age in MOD-025-3, Requirement R3 but the second bullet (i.e., Notification that the GO or TO submittal
TEET III PAIT AGIOGS WITH THE PROPOSED MINUT	ago in mode ozo o, requirement re put the second bullet (i.e., Notineation that the OO of TO submittal

EEI in part agrees with the proposed language in MOD-025-3, Requirement R3 but the second bullet (i.e., Notification that the GO or TO submitta contains a technical concern) should be aligned with the 1st bullet. To address this concern, we offer the following change to bullet 2 under Requirement R3; see bolded text:

• Notification that the Transmission Planner has reviewed the information and has identified a technical concern with the Real and Reactive Power capability information submitted by the Generator Owner or Transmission Owner, including the basis for the technical concern.

We additionally ask that some criteria be de information under Requirement R3.	eveloped to clarify the intended criteria that would be used as a basis for TP rejection of the GO or TOs
Likes 0	
Dislikes 0	
Response	
Wayne Sipperly - North American Genera	ator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF
Answer	No
Document Name	
Comment	
The NAGF recommends that the language	for the proposed MOD-025-3 R3 be revised to address the following:
a. It is unclear what the measurement/ev the Generator Owner (GO).	aluation criteria will be used by the Transmission Planner (TP) to review/verify the information submitted by
b. Modify the proposed R3 language to s not just review the information submitted by	tate that the TP must recognize the validity of and use the composite capability curve (CCC) and PQ data, the GO.
Likes 1	LaKenya Vannorman, N/A, Vannorman LaKenya
Dislikes 0	
Response	
George E Brown - Pattern Operators LP	- 5
Answer	No
Document Name	
Comment	
Pattern Energy supports Midwest Reliability	Organization's NERC Standards Review Forum's (MRO NSRF) comments.
Likes 0	
Dislikes 0	
Response	
Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Grou	up Name MRO NSRF
Answer	No

Document Name	
Comment	
	ortance of having an open feedback loop between the submitter and reviewer, the MRO NSRF is concerned ntion of the SAR's scope. The MRO NSRF does not believe this requirement is fulfilling the following scope
2.Ensure that each Planning Coordinator ar capability data verification	nd the area Transmission Planners develop requirements for the Planning Coordinator area real and reactive
5. Ensure that data provided by the applicat Planners and Planning Coordinators	ble Generator Owners and Transmission Owners is analyzed and used appropriately by Transmission
requirements. In addition, the MRO NSRF i	'90 calendar day' requirement. The SAR's scope makes no mention of adding timeframes to the s uncertain if 90 calendar days is enough time for Transmission Planner to review & respond, or the . The MRO NSRF suggests instead, is allowing the Transmission Planner, as a part of the SAR Scope item wledge and reply within.
Likes 0	
Dislikes 0	
Response	
Andy Thomas - Duke Energy - 1,3,5,6 - Sl	ERC,RF
Andy Thomas - Duke Energy - 1,3,5,6 - Sl Answer	ERC,RF No
-	
Answer	
Answer Document Name Comment Delete R3 and M3 because the MOD-025 veand technical expertise to determine the cap	erification process does not require additional information from the TP and the GO has sufficient information pability of the machine (including historical operational data). A 90-day feedback requirement from the lance burden. Also, in MOD-025-2 R3, the scope of the "review the information" is vague
Answer Document Name Comment Delete R3 and M3 because the MOD-025 version and technical expertise to determine the cap TP is unnecessary and adds undue compliant.	erification process does not require additional information from the TP and the GO has sufficient information pability of the machine (including historical operational data). A 90-day feedback requirement from the lance burden. Also, in MOD-025-2 R3, the scope of the "review the information" is vague
Answer Document Name Comment Delete R3 and M3 because the MOD-025 version and technical expertise to determine the capatal TP is unnecessary and adds undue compliant doesn't provide sufficient instructions.	erification process does not require additional information from the TP and the GO has sufficient information pability of the machine (including historical operational data). A 90-day feedback requirement from the lance burden. Also, in MOD-025-2 R3, the scope of the "review the information" is vague
Answer Document Name Comment Delete R3 and M3 because the MOD-025 wand technical expertise to determine the cap TP is unnecessary and adds undue complia and doesn't provide sufficient instructives Likes 0	erification process does not require additional information from the TP and the GO has sufficient information pability of the machine (including historical operational data). A 90-day feedback requirement from the lance burden. Also, in MOD-025-2 R3, the scope of the "review the information" is vague
Answer Document Name Comment Delete R3 and M3 because the MOD-025 verified and technical expertise to determine the capter of the sunnecessary and adds undue compliant doesn't provide sufficient instructions. Likes 0 Dislikes 0	erification process does not require additional information from the TP and the GO has sufficient information pability of the machine (including historical operational data). A 90-day feedback requirement from the lance burden. Also, in MOD-025-2 R3, the scope of the "review the information" is vague
Answer Document Name Comment Delete R3 and M3 because the MOD-025 verified and technical expertise to determine the capter of the sunnecessary and adds undue compliant doesn't provide sufficient instructions. Likes 0 Dislikes 0	erification process does not require additional information from the TP and the GO has sufficient information pability of the machine (including historical operational data). A 90-day feedback requirement from the lance burden. Also, in MOD-025-2 R3, the scope of the "review the information" is vague

Document Name	
Comment	
Talen supports the comments of the NAGF generators, amd make use of this data in the	. Additionally, TPs should be required to accept corrected values as the true reactive capability of eir models.
Likes 0	
Dislikes 0	
Response	
Christine Kane - WEC Energy Group, Inc	3, Group Name WEC Energy Group
Answer	No
Document Name	
Comment	
WEC Energy Group supports the MRO NSF	RF and the NAGF comments.
Likes 0	
Dislikes 0	
Response	
Alison MacKellar - Constellation - 5	
Answer	Yes
Document Name	
Comment	
Constellation does not have any comments	on R3 as it is not applicable to Generation Owners.
Alison Mackellar on behalf of Constellation	Segments 5 and 6
Likes 0	
Dislikes 0	
Response	
Junji Yamaguchi - Hydro-Quebec (HQ) -	5
Answer	Yes

Document Name		
Comment		
We support RSC comments		
Likes 0		
Dislikes 0		
Response		
Kimberly Turco - Constellation - 6		
Answer	Yes	
Document Name		
Comment		
Constellation does not have any comments	on R3 as it is not applicable to Generation Owners	
Kimberly Turco on behalf of Constellation S	Segments 5 and 6	
Likes 0		
Dislikes 0		
Response		
Deanna Carlson - Cowlitz County PUD - 5		
Answer	Yes	
Document Name		
Comment		
Deanna Carlson, Cowlitz County PUD No. 1, 5, 6/7/2023		
Likes 0		
Dislikes 0		
Response		
Rajesh Geevarghese - Rajesh Geevarghese On Behalf of: Kinte Whitehead, Exelon, 1, 3; - Rajesh Geevarghese		
Answer	Yes	

Document Name	
Comment	
Exelon concurs with the comments submitted by the EEI.	
Likes 0	
Dislikes 0	
Response	
Daniel Gacek - Exelon - 1	
Answer	Yes
Document Name	
Comment	
Exelon concurs with the comments submitted	ed by the EEI.
Likes 0	
Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy C	Corporation - 4, Group Name FE Voter
Answer	Yes
Document Name	
Comment	
None.	
Likes 0	
Dislikes 0	
Response	
Nazra Gladu - Manitoba Hydro - 1	
Answer	Yes
Document Name	
Comment	

any technical issues that it identifies with the communicate to the generation and transmi	lirement provides the needed feedback mechanism to address Transmission Planner concerns regarding e Real or Reactive Power capability information. It should be left up to the Transmission Planner to ssion owners the required information required to address their concerns. The most efficient way to address dialogue between entities to ensure that verifications are accurate and appropriate for the needs of the
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	
Charles Yeung - Southwest Power Pool,	Inc. (RTO) - 2 - MRO,WECC, Group Name SRC 2023
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Autl	nority - 1,3,5,6 - SERC
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0		
Response		
Jodirah Green - ACES Power Marketing	- 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Patricia Lynch - NRG - NRG Energy, Inc.		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
James Mearns - James Mearns On Behalf of: Dennis Sismaet, Northern California Power Agency, 4, 6, 3, 5; Jeremy Lawson, Northern California Power Agency, 4, 6, 3, 5; Marty Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns		
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,

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mohamed Derbas - Sempra - San Dieg	o Gas and Electric - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Martin Sidor - NRG - NRG Energy, Inc.	- 6
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Daniela Hammons - CenterPoint Energ	gy Houston Electric, LLC - 1
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Steven Taddeucci - NiSource - Northern	Indiana Public Service Co 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jennifer Bray - Arizona Electric Power C	ooperative, Inc 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Harishkumar Subramani Vijay Kumar - In	dependent Electricity System Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Anna Todd - Southern Indiana Gas and Electric Co 1,3,5,6 - RF		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Adrian Raducea - DTE Energy - Detroit E	dison Company - 5, Group Name DTE Energy - DTE Electric	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Donna Wood - Tri-State G and T Associa	ition, Inc 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Dave Krueger - SERC Reliability Corporation - 10		
Answer	Yes	
Document Name		
Comment		

Response	
Dislikes 0	
Likes 0	
Comment	
Document Name	
Answer	Yes
Body Member and Proxies	half of: Lindsey Mannion, ReliabilityFirst, 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot
Response	
Dislikes 0	
Likes 0	
Comment	
Document Name	
Answer Decument Name	Yes
Teresa Krabe - Lower Colorado River Au	-
Response	
Dislikes 0	
Likes 0	
Comment	
Document Name	
Answer	Yes
Steven Rueckert - Western Electricity Co	oordinating Council - 10, Group Name WECC
Response	
Dislikes 0	
Likes 0	

Mike Magruder - Avista - Avista Corporation - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Adrian Andreoiu - BC Hydro and Power	Authority - 1, Group Name BC Hydro	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Cain Braveheart - Bonneville Power Adm	ninistration - 1,3,5,6 - WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kevin Conway - Public Utility District No. 1 of Pend Oreille County - 3 - WECC		
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	
Jennie Wike - Jennie Wike On Behalf of: (Tacoma, WA), 1, 4, 5, 6, 3; Terry Gifford,	Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Wendy Kalidass - U.S. Bureau of Reclam	ation - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Thomas Foltz - AEP - 5	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gail Elliott - Gail Elliott On Behalf of: Mic	hael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott
Answer	
Document Name	
Comment	
ITC - no Comment From response received from Standard Owners or SMEs	
Likes 0	
Dislikes 0	
Response	

3. Do you agree the language proposed in MOD-025-3 Requirement R4? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.		
Christine Kane - WEC Energy Group, Inc	3, Group Name WEC Energy Group	
Answer	No	
Document Name		
Comment		
WEC Energy Group supports the MRO NSF	RF comments.	
Likes 0		
Dislikes 0		
Response		
Donald Lock - Talen Generation, LLC - 5		
Answer	No	
Document Name		
Comment		
See the NAGF comments for Question 3.		
Likes 0		
Dislikes 0		
Response		
Andy Thomas - Duke Energy - 1,3,5,6 - S	ERC,RF	
Answer	No	
Document Name		
Comment		
Revise R4 by removing the phrase "under Requirement 3" (required due to the deletion of R3).		
Likes 0		
Dislikes 0		
Response		

Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF		
Answer	No	
Document Name		
Comment		
The MRO NSRF is also concerned with the '90 calendar day' requirement. The SAR's scope makes no mention of adding timeframes to the requirements. In addition, the MRO NSRF is uncertain if 90 calendar days is enough time for a Generator Owner to review & respond, or the methodology used to choose the timeframe. The MRO NSRF suggests instead, is allowing the Transmission Planner, as a part of the SAR Scope item 2, to specify timeframes to reply within. SAR scope item 2 is as follows:		
2. Ensure that each Planning Coordinator a reactive capability data verification	nd the area Transmission Planners develop requirements for the Planning Coordinator area real and	
Likes 0		
Dislikes 0		
Response		
George E Brown - Pattern Operators LP	- 5	
Answer	No	
Document Name		
Comment		
Pattern Energy supports Midwest Reliability	Organization's NERC Standards Review Forum's (MRO NSRF) comments.	
Likes 0		
Dislikes 0		
Response		
Wayne Sipperly - North American Gener	ator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF	
Answer	No	
Document Name		
Comment		

See the NAGF comments for Question 2. In addition, the NAGF is concerned with the "90 calendar day" requirement. The SAR's scope makes no mention of adding timeframes to the requirements. Also, 90 calendar days may not be enough time for a Generator Owner to review & respond. Therefore, we suggest to allow the Transmission Planner, as a part of the SAR Scope item 2, to specify reply timeframes.

Likes 1	LaKenya Vannorman, N/A, Vannorman LaKenya
Dislikes 0	
Response	
Natalie Johnson - Enel Green Power - 5	
Answer	No
Document Name	
Comment	
Enel supports comments made by the MRC	NSRF.
Likes 0	
Dislikes 0	
Response	
Stephen Stafford - Georgia Transmission	n Corporation - NA - Not Applicable - SERC
Answer	No
Document Name	
Comment	
Reference the comment to question #2.	
Likes 0	
Dislikes 0	
Response	
Pamela Frazier - Southern Company - So Company	outhern Company Services, Inc 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern
Answer	No
Document Name	
Comment	

Southern Company is concerned with the "90 calendar day" requirement. The SAR's scope makes no mention of adding timeframes to the requirements. Also, we are uncertain if 90 calendar days is enough time for a Generator Owner to review & respond. We suggest, instead, to allow the Transmission Planner, as a part of the SAR Scope item 2, to specify timeframes to reply within. SAR scope item 2 is as follows:

Ensure that each Planning Coordinator and the area Transmission Planners develop requirements for the Planning Coordinator area real and reactive

capability data verification.		
Likes 0		
Dislikes 0		
Response		
Srikanth Chennupati - Entergy - 1,3,5,6 -	SERC	
Answer	No	
Document Name		
Comment		
 It is unclear what the measurement by the Generator Owner (GO). How would we recognize the validity models even though the tested data model quality test will look like as the FAC-002 come into play whereas the 	reguage for the proposed MOD-025-3 R4 be revised to address the following revaluation criteria will be used by the Transmission Planner (TP) to review/verify the information submitted by of capability curve and other limits like OEL? We would likely just accept the data and enter it in our awouldn't reach the capability curve limits. The NERC standard needs to provide specifics on what the key do for MOD-026/027. Also, if the VAR capability decreased from what was previously reported, does his may be a material change that could impact the BES reliability that the TP would need to evaluate? The mether the TP should assess such a change per FAC-002 when receiving a MOD-025 report if a TP analysis	
Likes 0		
Dislikes 0		
Response		
Andy Fuhrman - Andy Fuhrman On Beha	lf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman	
Answer	No	
Document Name		
Comment		
MPC supports MRO NERC Standards Review Forum comments.		
Likes 0		
Dislikes 0		
Response		
Jamison Cawley - Nebraska Public Powe	r District - 1	
Answer	No	

Document Name		
Comment		
NPPD supports comments submitted by MRO NSRF.		
Likes 0		
Dislikes 0		
Response		
Hillary Creurer - Hillary Creurer On Beha	lf of: Lori Frisk, Allete - Minnesota Power, Inc., 1; - Hillary Creurer	
Answer	No	
Document Name		
Comment		
Minnesota Power supports EEI's comments	S.	
Likes 0		
Dislikes 0		
Response		
Claudine Bates - Black Hills Corporation	- 6	
Answer	No	
Document Name		
Comment		
Black Hills Corporation supports the NAGF comments.		
Likes 0		
Dislikes 0		
Response		
Sheila Suurmeier - Black Hills Corporation - 5		
Answer	No	
Document Name		
Comment		

Black Hills Corporation supports NAGF comments.		
Likes 0		
Dislikes 0		
Response		
Micah Runner - Black Hills Corporation -	.1	
Answer	No	
Document Name		
Comment		
Black Hills Corporation supports the NAGF	comments.	
Likes 0		
Dislikes 0		
Response		
Israel Perez - Israel Perez On Behalf of: Timothy Singh, Salt River Project, 3, 5, 1	Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; , 6; - Israel Perez	
Answer	No	
Document Name		
Comment		
The notification should not have a "plan" but a Corrective Action Plan" with a requirement to provide an updated CAP in the event that the milestones change.		
Likes 0		
Dislikes 0		
Response		
Todd Bennett - Associated Electric Coop	perative, Inc 3, Group Name AECI	
Answer	No	
Document Name		
Comment		

AECI is supportive of the comments provided by the NAGF.		
Likes 0		
Dislikes 0		
Response		
David Jendras Sr - Ameren - Ameren Ser	vices - 3	
Answer	No	
Document Name		
Comment		
Ameren would like clarification on a dispute	resolution process for the third bullet point to avoid a potential impasse.	
Likes 0		
Dislikes 0		
Response		
Mark Garza - FirstEnergy - FirstEnergy C	corporation - 4, Group Name FE Voter	
Answer	Yes	
Document Name		
Comment		
None.		
Likes 0		
Dislikes 0		
Response		
Daniel Gacek - Exelon - 1		
Answer	Yes	
Document Name		
Comment		
Exelon concurs with the comments submitted by the EEI.		

Likes 0		
Dislikes 0		
Response		
Rajesh Geevarghese - Rajesh Geevarghe	ese On Behalf of: Kinte Whitehead, Exelon, 1, 3; - Rajesh Geevarghese	
Answer	Yes	
Document Name		
Comment		
Exelon concurs with the comments submitte	ed by the EEI.	
Likes 0		
Dislikes 0		
Response		
Deanna Carlson - Cowlitz County PUD -	5	
Answer	Yes	
Document Name		
Comment		
Deanna Carlson, Cowlitz County PUD No.	1, 5, 6/7/2023	
Likes 0		
Dislikes 0		
Response		
Daniela Atanasovski - APS - Arizona Public Service Co 1		
Answer	Yes	
Document Name		
Comment		
None		
Likes 0		
Dislikes 0		

Response		
Casey Perry - PNM Resources - 1,3 - WE	cc	
Answer	Yes	
Document Name		
Comment		
PNM supports the language proposed in M	OD-025-3, Requirement R4.	
Likes 0		
Dislikes 0		
Response		
Kimberly Turco - Constellation - 6		
Answer	Yes	
Document Name		
Comment		
Constellation agrees with a 90-day requirement to receive feedback regarding models from the Transmission Planner; however, we are concerned that the additional data that this draft Standard is proposing may not even be used by the Transmission Planner. If this Standard is requiring the GO provide the additional data such as a one-line diagram, composite capability curve and associated PQ data table, documentation showing the engineering basis, verification methodology and/or applicable data for the verification method then Constellation suggests that the proposed Standard language be modified to allow an exception from certain parameters based on the Transmission Planner's individual needs for modeling.		
Kimberly Turco on behalf of Constellation S	Segments 5 and 6	
Likes 0		
Dislikes 0		
Response		
Junji Yamaguchi - Hydro-Quebec (HQ) -	5	
Answer	Yes	
Document Name		
Comment		

We support RSC comments	
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA	A - Not Applicable - NA - Not Applicable
Answer	Yes
Document Name	
Comment	
EEI supports the language proposed in MO	D-025-3, Requirement R4.
Likes 0	
Dislikes 0	
Response	
Alison MacKellar - Constellation - 5	
Answer	Yes
Document Name	
Comment	
the additional data that this draft Standard i the additional data such as a one-line diagr basis, verification methodology and/or appli	ment to receive feedback regarding models from the Transmission Planner; however, we are concerned that s proposing may not even be used by the Transmission Planner. If this Standard is requiring the GO provide am, composite capability curve and associated PQ data table, documentation showing the engineering icable data for the verification method then Constellation suggests that the proposed Standard language be parameters based on the Transmission Planner's individual needs for modeling.
Likes 0	
Dislikes 0	
Response	
	Behalf of: Frank Lee, Pacific Gas and Electric Company, 3, 1, 5; Marco Rios, Pacific Gas and Electric as and Electric Company, 3, 1, 5; - Michael Johnson, Group Name PG&E All Segments
Answer	Yes

Document Name	
Comment	
PG&E supports the proposed Requirement	R4 language.
Likes 0	
Dislikes 0	
Response	
Thomas Foltz - AEP - 5	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Wendy Kalidass - U.S. Bureau of Reclam	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jennie Wike - Jennie Wike On Behalf of: Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike	
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	
Nazra Gladu - Manitoba Hydro - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kevin Conway - Public Utility District No	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Cain Braveheart - Bonneville Power Adm	
Answer	Yes

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Adrian Andreoiu - BC Hydro and Power	Authority - 1, Group Name BC Hydro
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	
Stephen Whaite - Stephen Whaite On Be Body Member and Proxies	half of: Lindsey Mannion, ReliabilityFirst , 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot
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		
Steven Rueckert - Western Electricity Co	pordinating Council - 10, Group Name WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Dave Krueger - SERC Reliability Corpora		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Donna Wood - Tri-State G and T Associa		
Answer	Yes	

Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Adrian Raducea - DTE Energy - Detroit E	dison Company - 5, Group Name DTE Energy - DTE Electric	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Anna Todd - Southern Indiana Gas and E	Electric Co 1,3,5,6 - RF	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Harishkumar Subramani Vijay Kumar - Independent Electricity System Operator - 2		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		

Response	
Jennifer Bray - Arizona Electric Power Cooperative, Inc 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Joshua London - Eversource Energ	y - 1, Group Name Eversource
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Alan Kloster - Alan Kloster On Beha 5, 1; Marcus Moor, Evergy, 3, 6, 5, 1	alf of: Jennifer Flandermeyer, Evergy, 3, 6, 5, 1; Jeremy Harris, Evergy, 3, 6, 5, 1; Kevin Frick, Evergy, 3, 6, ; - Alan Kloster
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Steven Taddeucci - NiSource - Northern Indiana Public Service Co 3	
Answer	Yes

Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Daniela Hammons - CenterPoint Energy Houston Electric, LLC - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Martin Sidor - NRG - NRG Energy, Inc 0	5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mohamed Derbas - Sempra - San Diego Gas and Electric - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		

Response	
Utility District, 3, 6, 4, 1, 5; Kevin	f of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Smith, Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, 3 nto Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim C
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
	n Behalf of: Dennis Sismaet, Northern California Power Agency, 4, 6, 3, 5; Jeremy Lawson, Northern 5; Marty Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Patricia Lynch - NRG - NRG Energ	уу, Inc 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jodirah Green - ACES Power Mar	keting - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Aut	hority - 1,3,5,6 - SERC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ruchi Shah - AES - AES Corporation - 5	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Charles Yeung - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC, Group Name SRC 2023	
Answer	Yes
Document Name	
Comment	
Likes 0	

Kennedy Meier - Electric Reliability Council of Texas, Inc 2	
Yes	
hael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
ITC - no Comment From response received from Standard Owners or SMEs	

4. Do you agree the language proposed in MOD-025-3 Attachment 1? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.		
Kennedy Meier - Electric Reliability Cou	ncil of Texas, Inc 2	
Answer	No	
Document Name		
Comment		
ERCOT joins the comments submitted by and adopts them as its own.	the ISO/RTO Council Standards Review Committee (IRC SRC) (submitted under the group name SRC 2023)	
Likes 0		
Dislikes 0		
Response		
Charles Yeung - Southwest Power Pool	, Inc. (RTO) - 2 - MRO,WECC, Group Name SRC 2023	
Answer	No	
Document Name		
Comment		

An overarching goal of this Project is to ensure that the Real and Reactive Power Capability data provided through verification activities produces suitable data for the purposes of developing accurate planning models used in reliability studies, the IRC SRC's highest priority concern with MOD-025 is that Transmission Planners get credible and reliable real and reactive power capability data for modeling purposes. This is underscored in the Technical Rationale for MOD-025 (page 5), Section II, Item 5: The development of an accurate composite capability curve and associated PQ data table of Requirement R1 or Requirement R2 is paramount, so the data and information made available to Transmission Planners is more accurate.

To illustrate the importance of this requirement, in July of 1999, PJM experienced heavy loads due to hot and humid conditions. Sufficient MWs were available (real time and reserves) to supply the load but transmission voltages were decaying due to insufficient reactive supply (this wide-spread voltage decline was a gradual decay throughout the day as demand increased). At that time, PJM's Energy Management System (EMS) had only nameplate D-Curve data which indicated adequate supply and reserves available to correct the voltage issues but in reality, many units had internal or external limitations that prevented the unit from providing that level of reactive support. As a result, PJM developed a method of determining and modeling more realistic values for each unit's reactive capability through testing. Link to additional information: https://www.nerc.com/pa/rrm/ea/System%20Disturbance%20Reports%20DL/1999SystemDisturbance.pdf

Attachment 1, Section II, Item 5 allows the applicable entity to use one or more methodologies to verify the Facility Real and Reactive Power capability for all equipment expected to be in-service for normal operation. One of the allowed methodologies for this verification is an engineering review. We believe that an engineering review alone is not sufficient for capability determination and verification. Some operational data must be utilized. As described in the SAR, Project Scope, item 4 (page 3), expansion of the engineering review was intended to *complement* and *not replace* the need for the operational data gained via verification activities.

Therefore, SRC asks the SDT to modify item 5 (bullet #3) to require an applicable entity perform a stage test or collect operational data along with engineering analysis for it to qualify as an acceptable methodology (see Technical Rationale for MOD-025, Attachment 1, Section III – Stage test and operational data specifications).

	riodicity to 10 years to be consistent with MOD-026 and MOD-027. However, the performance can be captured by current standards. We believe that the 5-year periodicity should be retained.
Likes 0	
Dislikes 0	
Response	
Ruchi Shah - AES - AES Corporation - 5	
Answer	No
Document Name	
Comment	
Section 3 – "All aux equipment in service fo switching in during testing will back the inve	180 days to perform a verification test after a change of greater than 10% capacity. It normal operation." Recommend the SDT to consider how this may impact testing. For example, capacitors enters/turbines off from providing support. If the intention of the requirement is to find the true limits of us to consider testing without aux equipment in normal operation.
Likes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Autl	nority - 1,3,5,6 - SERC
Answer	No
Document Name	
Comment	
	xcessive data collection and engineering efforts that will most likely require contracted testing engineering Transmission Planner comparable to the effort and cost that will be required to perform the work.
Likes 0	
Dislikes 0	
Response	
Jodirah Green - ACES Power Marketing	- 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators
Answer	No
Document Name	

Comment

The changes to this standard are quite extensive and we appreciate the large amount of time and effort that the SDT put into making meaningful updates. However, we do not believe that 180 calendar days is a sufficient amount of time to complete the staged testing and engineering analysis for new applicable Facilities identified in Attachment 1, Section I, Item 2. As new facilities will be unlikely to have sufficient operational data for the purposes of MOD-025 verification, we recommend that this section be reverted to the previous value of 12 calendar months.

Furthermore, in Attachment 1, Section I, Item 4, the outage duration must be >= 180 calendar days AND overlap the scheduled verification date in order to be allowed to perform the verification within 180 calendar days of the Return to Service (RTS) date. Consider the following scenario showing why a defined outage timeframe could be an issue (Note: all dates and timeframes are completely arbitrary and for illustrative purposes only):

- Entity XYZ is the registered GO for Unit X.
- Unit X is a 100 MW Combustion Turbine (CT) that was last verified 9 years, 7 months ago per MOD-025-3.
- Unit X is scheduled to begin a 90-day hot gas path outage in 2 weeks (i.e. 9 years, 7 months, 14 days since last verification date).
- Due to the extensive nature of these types of outages and the massive quantity of wornout components being replaced with new like-in-kind components, the unit capability will increase following the outage; however, the increase will likely be < 10%.
 - Therefore, in order to provide the TP with the most accurate data, the GO plans to perform the MOD-025 verification with the new components installed immediately post RTS (i.e. within the 10-year verification period).
 - o Based on the currently scheduled dates, this plan leaves plenty of margin to complete the MOD-025 verification in a timely manner.
- During the outage, a major issue is discovered requiring extensive rotor work on the CT.
 - o These rotor repairs extend the length of the outage by an additional 51 days for a total outage time of 141 calendar days.
- As the extended outage time is < 180 days, Entity XYZ is now in violation of MOD-025-3 due to not performing the verification within the 10-year period.
 - Example schedule:
 - Last date of verification: 08/31/2013
 - MOD-025-3 Verification Deadline per R1: 08/31/2023
 - Outage Start Date: 04/14/2023
 - Projected Outage End Date: 07/13/2023Actual Outage End Date: 09/02/2023

In the Scenario above, the GO is left with 3 possible choices. Either A) perform the verification prior to the scheduled outage or B) risk a violation if the outage gets extended or C) to extend the outage >= 180 days. In our opinion, none of the above choices are optimal. Please consider the following modified verbiage for Item 4.

"Verify an existing applicable Facility within 180 calendar days of its return to service date, if the Facility has a planned or unplanned outage which overlaps its scheduled verification date and has not had its capability verified within the past ten years."

Lastly, the language in Section 6 does not seem to align with the language in the other sections of Attachment 1. Section 6 references "steady-state composite capability curve (CCC)" in contrast to the "Facility's composite capability curve" referenced in Section 5. By using seemingly contrasting language, Section 6 seems to indicate that a capability curve is required for each individual unit as opposed to the Facility as a whole. We recommend modifying as follows:

"For an applicable Facility as identified in Section 4.2.1, 4.2.2, or 4.2.4.1, when performing verification on an individual unit basis, create a graphical representation of the Facility steady-state composite capability curve (CCC) for the Real Power and Reactive Power. The Facility steady-state CCC shall include at a minimum the following..."

Likes 0	
Dislikes 0	

Response

Michael Johnson - Michael Johnson On Behalf of: Frank Lee, Pacific Gas and Electric Company, 3, 1, 5; Marco Rios, Pacific Gas and Electric Company, 3, 1, 5; Sandra Ellis, Pacific Gas and Electric Company, 3, 1, 5; - Michael Johnson, Group Name PG&E All Segments		
Answer	No	
Document Name		
Comment		
PG&E supports the input provided by the E	dison Electric Institute (EEI), their reasoning and suggested modifications.	
Likes 0		
Dislikes 0		
Response		
Patricia Lynch - NRG - NRG Energy, Inc.	- 5	
Answer	No	
Document Name		
Comment		
Section II.7.2 and III.4 require the representation of "all" auxiliary equipment. There should be realistic limits to the size of an auxiliary sources that are required for reporting. If a separate auxiliary source connection (Point E, Station Service Transformer) provide load less than 0.5% of Pmax, reporting of auxiliary load should be excluded. In addition, the engineering analysis option requirement needs to have better tighter criteria /guidance around it so that it would be consistent subject to acceptance criteria. Finally, criteria for the TO should also be included for operational /staged testing and these parties held accountable for the test preparation and test conditions that will allow generators to be able to better meet their true capability limits.		
Likes 0		
Dislikes 0		
Response		
Constantin Chitescu - Ontario Power Generation Inc 5		
Answer	No	
Document Name		
Comment		
OPG supports NPCC Regional Standards Committee's comments. OPG has the following additional comments:		

Attachment 1, Section I. Periodicity of verific	cation, #3
The Facility has been on a planned or unpla Facility within 180 calendar days of its returi	anned outage of 180 days or greater, which overlaps its scheduled verification date. Verify the applicable n to service date.
Suggest removing "of 180 days or greater	r. "
Suggest changing "Facility Capability" to "U	nit Capability."
Attachment 1, Section II. Verification specifi	cations for applicable Facilities, #5
<i>O O O O O O O O O O</i>	vith Section III, obtained from a date within 365 calendar days prior to verification date, and perform that validates the generatorFacility capability; or"
Suggest changing the word verification to i	re-verification.
	verification date is proactively set for 8 year instead of 10 does that means that the test staged data should ould the test data taken on the seventh year be invalid because it is >365 calendar days from the 10 year
Likes 0	
Dislikes 0	
Response	
Nicolas Turcotte - Hydro-Quebec (HQ) - 1	
Answer	No
Document Name	
Comment	
specifying who (the TO?) is responsible to one of the control of t	ms to be more commonly used in the Reliability Standards than "applicable entity". Furthermore, ssuggest complete the engineering review or analysis? The to specify a minimal Facility outage time of 180 days to be allowed to delay from verification. If the entity is need or unplanned outage, no matter the length of the outage, the entity should be allowed to perform irrn to service date. Will actually force the entity to plan its verification on a 9.5-year period, instead of a 10-year period, in order
to avoid a situation where an outage of less	than 180 days would prevent them from meeting the planned verification date.
Likes 0	
Dislikes 0	
Response	
Tim Kelley - Tim Kelley On Behalf of: Cha Utility District, 3, 6, 4, 1, 5; Kevin Smith, B	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,

6, 4, 1, 5; Pedro Juarez, 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 / BANC	
Answer	No
Document Name	
Comment	
SMUD and BANC support the comments p	rovided by Tacoma Power.
Likes 0	
Dislikes 0	
Response	
David Jendras Sr - Ameren - Ameren Services - 3	
Answer	No
Document Name	
Comment	
We would like more clarification on what ki	nd of engineering analysis is acceptable.
Likes 0	
Dislikes 0	
Response	
Todd Bennett - Associated Electric Coo	perative, Inc 3, Group Name AECI
Answer	No
Document Name	
Comment	
AECI is supportive of the comments provided by the NAGF.	
Likes 0	
Dislikes 0	
Response	
Alison MacKellar - Constellation - 5	
Answer	No

Document Name		
Comment		
Constellation agrees with NAGF's commen	ts and in addition provides the following comments in regards to Attachment #1:	
date. There may be reasons for a company	gree with the verification of each new applicable Facility within 180 calendar days of its commercial operation to declare "commercial operation date" prior to actual day-one operational date due to regional and state sioning testing). Constellation therefore recommends revising the language to state "within 180 days of initial"	
Section 1, Item 3: Constellation agrees with the 10-year periodicity; however, Transmission Planners typically have more conservative testing requirements. As previously mentioned, the data and periodicity for testing is dictated by the Transmission Planners and therefore providing such specific requirements in MOD-025 will continue to result in discrepancies in data reported to meet the Transmission Planner requests and evidence documented to meet the Standard requirements.		
Section 1, Item 4: Constellation does not agree with the 180-day timeline for a change in capacity due to economic concerns. Wind and hydro generating units will now be required to perform max leading and lagging testing. It is unclear if first test has to be staged as the form now requires a composite curve, PQ table and documentation showing methodology.		
Section 3, Item 5: Constellation recommend	ds rewording this as IBR facilities operate only in VAR or PF control modes.	
Alison Mackellar on behalf of Constellation	Segments 5 and 6	
Likes 0		
Dislikes 0		
Response		
Mark Gray - Edison Electric Institute - NA	A - Not Applicable - NA - Not Applicable	
Answer	No	
Document Name		
Comment		
CEL doos not support the following changes	to Attachment 1.	

EEI does not support the following changes to Attachment 1:

Section I, Parts 2, 3, 4: EEI does not support the reduction of time for verification testing of applicable facilities from 12 calendar months to 180 days noting the periodicity for this testing has been increased from 5 years to 10 raising the question what Reliability improvement might be achieved by this reduction. The work associated with the proposed changes are significant and obligating entities to shorten their verification testing and engineering analysis appears to be unjustified. It is also important to recognize that many entities do not have the internal expertise to conduct these tests and need the assistance of consultant/contractor to conduct these verification tests and associated analysis. For these reasons, we do not support the proposed reductions.

Section II, Part 3.1. EEI requests additional clarity regarding the "simplified one-line diagrams" representing the facility. While we agree that the oneline should include GSU, generator, and auxiliary equipment information, as needed by the Transmission Planner, we do not agree that all station service loads at all voltage levels need to be shown on the one-line. If this is not intended, modification should be made to the language in Part 3.1 to make it clear this level of detail is not required.

Section II, Parts 6-8: Recommend removing requirement to create a composite capability curve (CCC). Transmission Planners have sufficient modeling

information with Q Max & Q Min @ Pmin + Q Max & Q Min @ Pmax. A CCC will be tedious, and time consuming for GOs/TOs to create and provide little reliability benefit to a TP. The TP cannot input the CCC into their modeling software directly, and the data it provides is redundant with the data required by Att 2 Section III.	
Section 3. Note 1: EEI requests that a technical basis be provided for Note 1 (Section 3/Attachment 1). This note points out that the revisions to MOD-025-3 may not provide usable results for TPs under certain conditions and in those cases a simulation or engineering analysis will be required to address the limitations of the verification testing. The changes to MOD-025 were initiated to solve this issue but this note seems to indicate that the same issues that resulted in failed verification tests in the past may continue in the proposed MOD-025-3, Draft 2 version. Additional clarity within the technical rationale justifying Note 1 is requested.	
Likes 0	
Dislikes 0	
Response	
Mohamed Derbas - Sempra - San Diego (Sas and Electric - 1
Answer	No
Document Name	
Comment	
4 the verification was evisionally assemblated	
	every 5 year and based on the new proposal it needs to be completed every 10 year which is not desirable.
2- It's not acceptable to only verify the power	
2- It's not acceptable to only verify the power data and engineering analysis together.	
2- It's not acceptable to only verify the power data and engineering analysis together. Likes 0 Dislikes 0	
2- It's not acceptable to only verify the power data and engineering analysis together. Likes 0	
2- It's not acceptable to only verify the power data and engineering analysis together. Likes 0 Dislikes 0	er capability of BES facilities using "Engineering Analysis". The characteristic can be verified with measured
2- It's not acceptable to only verify the power data and engineering analysis together. Likes 0 Dislikes 0 Response	er capability of BES facilities using "Engineering Analysis". The characteristic can be verified with measured
2- It's not acceptable to only verify the power data and engineering analysis together. Likes 0 Dislikes 0 Response Martin Sidor - NRG - NRG Energy, Inc 6	er capability of BES facilities using "Engineering Analysis". The characteristic can be verified with measured
2- It's not acceptable to only verify the power data and engineering analysis together. Likes 0 Dislikes 0 Response Martin Sidor - NRG - NRG Energy, Inc 6 Answer	er capability of BES facilities using "Engineering Analysis". The characteristic can be verified with measured
2- It's not acceptable to only verify the power data and engineering analysis together. Likes 0 Dislikes 0 Response Martin Sidor - NRG - NRG Energy, Inc 6 Answer Document Name Comment We do not agree with the direction of using the same of the same o	er capability of BES facilities using "Engineering Analysis". The characteristic can be verified with measured

Dislikes 0	
Response	
Junji Yamaguchi - Hydro-Quebec (HQ) - 🤄	5
Answer	No
Document Name	
Comment	
Section 1, point 1: "responsible entity" seems to be more commonly used in the Reliability Standards than "applicable entity". Furthermore, ssuggest pecifying who (the TO?) is responsible to complete the engineering review or analysis? In our opinion, there is no added value to specify a minimal Facility outage time of 180 days to be allowed to delay from verification. If the entity is mable to verify a Facility because of a planned or unplanned outage, no matter the length of the outage, the entity should be allowed to perform erification within 180 days following its return to service date. Indeed, a minimal outage time of 180 days will actually force the entity to plan its verification on a 9.5-year period, instead of a 10-year period, in order to avoid a situation where an outage of less than 180 days would prevent them from meeting the planned verification date. Sikes 0	
Response	
srael Perez - Israel Perez On Behalf of: J Fimothy Singh, Salt River Project, 3, 5, 1	lennifer Bennett, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; 6; - Israel Perez
Answer	No
Document Name	
Comment	
SRP supports Midwest Reliability Organizat	ion's NERC Standards Review Forum's (MRO NSRF) comments.
Likes 0	
Dislikes 0	
Response	
Micah Runner - Black Hills Corporation -	1
Answer	No
Document Name	
Comment	

Black Hills Corporation supports the NAGF	comments.
Likes 0	
Dislikes 0	
Response	
Sheila Suurmeier - Black Hills Corporation	on - 5
Answer	No
Document Name	
Comment	
Black Hills Corporation supports the NAGF	comments.
Likes 0	
Dislikes 0	
Response	
Claudine Bates - Black Hills Corporation	- 6
Answer	No
Document Name	
Comment	
Black Hills Corporation supports the NAGF	comments.
Likes 0	
Dislikes 0	
Response	
Hillary Creurer - Hillary Creurer On Behalf of: Lori Frisk, Allete - Minnesota Power, Inc., 1; - Hillary Creurer	
Answer	No
Document Name	
Comment	
Minnesota Power supports EEI's comments	s.

Likes 0	
Dislikes 0	
Response	
Kimberly Turco - Constellation - 6	
Answer	No
Document Name	
Comment	
be reasons for a company to declare "comproject financing, commissioning testing). Comproject financing, commissioning testing). Comproject financing, commissioning testing). Constellation testing requirements. As previously mention such specific requirements in MOD-025 will evidence documented to meet the Standard capacity due to economic concerns. Wind a	
Likes 0	
Dislikes 0	
Response	
Jamison Cawley - Nebraska Public Powe	er District - 1
Answer	No
Document Name	
Comment	
NPPD supports comments submitted by MF	RO NSRF.
Likes 0	
Dislikes 0	
Response	
Steven Taddeucci - NiSource - Northern	Indiana Public Service Co 3

Answer	No
Document Name	
Comment	
	time for verification of applicable facilities from 12 calendar months to 180 days. If assistance of ct these verification tests, 12 months is the correct time period.
Likes 0	
Dislikes 0	
Response	
Alan Kloster - Alan Kloster On Behalf of: 5, 1; Marcus Moor, Evergy, 3, 6, 5, 1; - Ala	Jennifer Flandermeyer, Evergy, 3, 6, 5, 1; Jeremy Harris, Evergy, 3, 6, 5, 1; Kevin Frick, Evergy, 3, 6, an Kloster
Answer	No
Document Name	
Comment	
Evergy supports and incorporates by refere	nce the comemnts of the Edison Electric Institute (EEI) to questions #4.
Likes 0	
Dislikes 0	
Response	
Joshua London - Eversource Energy - 1,	Group Name Eversource
Answer	No
Document Name	
Comment	
Eversource supports the comments submitted by EEI and the NPCC RSC.	
Likes 0	
Dislikes 0	
Response	
Jennifer Bray - Arizona Electric Power C	ooperative, Inc 1
Answer	No

Document Name			
Comment			
AEPC signed on to ACES comments below			
The changes to this standard are quite extensive and we appreciate the large amount of time and effort that the SDT put into making meaningful updates. However, we do not believe that 180 calendar days is a sufficient amount of time to complete the staged testing and engineering analysis for new applicable Facilities identified in Attachment 1, Section I, Item 2. As new facilities will be unlikely to have sufficient operational data for the purposes of MOD-025 verification, we recommend that this section be reverted to the previous value of 12 calendar months.			
Furthermore, in Attachment 1, Section I, Item 4, the outage duration must be >= 180 calendar days AND overlap the scheduled verification date in order to be allowed to perform the verification within 180 calendar days of the Return to Service (RTS) date. Consider the following scenario showing why a defined outage timeframe could be an issue (Note: all dates and timeframes are completely arbitrary and for illustrative purposes only):			
• Entity XYZ is the registered GO for U	• Entity XYZ is the registered GO for Unit X.		
• Unit X is a 100 MW Combustion Turbine (CT) that was last verified 9 years, 7 months ago per MOD-025-3.			
• Unit X is scheduled to begin a 90-day hot gas path outage in 2 weeks (i.e. 9 years, 7 months, 14 days since last verification date).			
• Due to the extensive nature of these types of outages and the massive quantity of wornout components being replaced with new like-in-kind components, the unit capability will increase following the outage; however, the increase will likely be < 10%.			
o Therefore, in order to provide the TP with the most accurate data, the GO plans to perform the MOD-025 verification with the new components installed immediately post RTS (i.e. within the 10-year verification period).			
o Based on the currently scheduled dates, this plan leaves plenty of margin to complete the MOD-025 verification in a timely manner.			
• During the outage, a major issue is di	scovered requiring extensive rotor work on the CT.		
o These rotor repairs extend the length of th	e outage by an additional 51 days for a total outage time of 141 calendar days.		
• As the extended outage time is < 180 days, Entity XYZ is now in violation of MOD-025-3 due to not performing the verification within the 10-year period.			
o Example schedule:			
□ Last date of verification: 08/31/2013			
□ MOD-025-3 Verification Deadline per R1: 08/31/2023			
□ Outage Start Date: 04/14/2023			
□ Projected Outage End Date: 07/13/2023			
□ Actual Outage End Date: 09/02/2023			
	possible choices. Either A) perform the verification prior to the scheduled outage or B) risk a violation if the stage >= 180 days. In our opinion, none of the above choices are optimal. Please consider the following		
	180 calendar days of its return to service date, if the Facility has a planned or unplanned outage which has not had its capability verified within the past ten years."		

composite capability curve (CCC)" in contra	seem to align with the language in the other sections of Attachment 1. Section 6 references "steady-state st to the "Facility's composite capability curve" referenced in Section 5. By using seemingly contrasting a capability curve is required for each individual unit as opposed to the Facility as a whole. We recommend
	ection 4.2.1, 4.2.2, or 4.2.4.1, when performing verification on an individual unit basis, create a graphical omposite capability curve (CCC) for the Real Power and Reactive Power. The Facility steady-state CCC
Likes 0	
Dislikes 0	
Response	
Andy Fuhrman - Andy Fuhrman On Beha	alf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman
Answer	No
Document Name	
Comment	
 Attachment 1, Section II, Paragraph 6 and Attachment 2, Figure 1 and PQ Curve Data Table: Limiters are already documented as a part of PRC-019. This will not be impactful to MPC, but it is redundant. Attachment 1, Section II, Paragraph 6.5: I think there needs to be clarification— what is the "final PQ curve, which defines the normal operating range"? Is it where an entity normally operates or is it where an entity can operate based on limiters and other protective settings? Attachment 1, Section III, Paragraph 3: "Staged testing or operating conditions should be maintained constant for a sufficient time to ensure that the applicable Facility can perform" That leaves a significant detail up to interpretation. Previously, we were required to maintain a specific time under the various test conditions (only having to touch and go on three of the four conditions while the fourth condition had to be maintained for at least 60 minutes). Additional guidance may be provided in Attachment 1, Section III, Paragraph 6, but it is unclear if the intent is to approach a limit and immediately move away from it. Attachment 2, Note 1: O Does the SDT plan to provide guidance for the simulation or engineering analysis that now is required when the transmission system conditions are such that the operational test does not meet the manufacturer's D-curve? I realize the previous version of MOD-025 recommended a similar analysis, but it was not required. It does not appear to be optional now, making it not only mandatory, but also enforceable. This could represent a minor or major change with some financial impact to the way MPC currently conducts testing. Regarding when to perform the analysis, at what point are we to consider the test data not matching the D-curve? 	
MPC also supports MRO NERC Standards	Review Forum Confinents.
Likes 0	
Dislikes 0	
Response	
Harishkumar Subramani Vijay Kumar - In	dependent Electricity System Operator - 2

Answer	No
Document Name	
Comment	
The most important reliability objective for this standard is to ensure that the Real and Reactive Power Capability data provided through rerification activities produces suitable data for the purposes of developing accurate planning models used in reliability studies. Transmission Planners need credible and reliable real and reactive power capability data for modeling purposes. Attachment 1, Section II, Item 5 allows the applicable entity to use one or more methodologies to verify the Facility Real and Reactive Power capability for all equipment expected to be in-service for normal operation. One of the allowed methodologies for this verification is an engineering review. An engineering review alone is not sufficient for capability determination and verification. Some operational data must be utilized. As described in the SAR, Project Scope, item 4 (page 3), expansion of the engineering review was intended to complement and not replace the need for the operational data gained via verification activities. Facility performance can be impacted by changes and degradation not captured by current standards, as such, we believe that the 5-year periodicity should be retained.	
ikes 0	
Dislikes 0	
Response	
Srikanth Chennupati - Entergy - 1,3,5,6 -	SERC
Answer	No
Document Name	
Comment	
 Entergy recommends that the language for the proposed MOD-025-3 Attachment 1 be revised to address the following: Retesting based upon nameplate values could result in more testing, more frequently on units whose prime mover is not capable of meeting name plate values. Small derates on these units which are insignificant as a whole could be larger than a 10% change from the name plate. Entergy Recommends Keeping the wording as current MOD-025-2 standard compared to previous verification It is unclear what engineering analysis is deemed acceptable. T. Planning needs a CCC. We may run studies at different MW output levels than what the GO determines to be Pmax and Pmin and we also need other limits plotted on the curve like OEL. 	
Likes 0	
Dislikes 0	
Response	
Casey Perry - PNM Resources - 1,3 - WE	CC
Answer	No
Document Name	

Comment	
PNM supports with EEI comments.	
Likes 0	
Dislikes 0	
Response	
Pamela Frazier - Southern Company - So Company	outhern Company Services, Inc 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern
Answer	No
Document Name	
Comment	
its Real Power or Reactive Power of confusion. "Nameplate" changes a 10 percent increase or decrease of • Att 1 Section II.3.1. Propose facility include GSU, generator, and auxilia station service loads at all voltage le • Att 1 Section II.6-8. Strongly recommodificient modeling information with GOs/TOs to create and provide little is redundant with the data required • Att 1 Section III. What is the benefit	of "Verify an existing applicable Facility within 180 calendar days of the discovery of a change that affects capability by more than a 10 percent increase or decrease of the nameplate rating" as this may lead to be re rare and reflect some sort of machine upgrade, stator rewind, etc. Possible alternative is "by more than previously reported real or reactive power capability." Yone-line not be so prescriptive in auxiliary equipment that has to be represented. The one-line should any equipment information as needed by the Transmission Planner. As worded, the standard would imply all evels need to be shown on the one-line. Immend removing requirement to create a composite capability curve (CCC). Transmission Planner has Q Max & Q Min @ Pmin + Q Max & Q Min @ Pmax. A CCC will be tedious and time consuming for the benefit to a TP. The TP cannot input the CCC into their modeling software directly, and the data it provides by Att 2 Section III. It of staged testing if it must be coupled with engineering analysis anyway? The verification requirements as indicated by the SAR Project Scope.
Response	
Stephen Stafford - Georgia Transmission	n Corporation - NA - Not Applicable - SERC
Answer	No
Document Name	
Comment	
Regarding Attachment One, Section III, Iten percent of the inverters/generators <i>normal</i>	n 9, wording clarification is needed: "staged testing or operational data should be recorded with at least 90 operating real power at a Facility on-line"
Likes 0	
Dislikes 0	

Response	
Natalie Johnson - Enel Green Power - 5	
Answer	No
Document Name	
Comment	
Enel supports comments made by the MRO NSRF.	
Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Public Service Co 1	
Answer	No
Document Name	

Comment

AZPS supports the following comments submitted by EEI on behalf of its members:

Section I, Parts 2, 3, 4: EEI does not support the reduction of time for verification testing of applicable facilities from 12 calendar months to 180 days noting the periodicity for this testing has been raised from 5 years to 10 raising the question what Reliability improvement might be achieved by this reduction. The work associated with the proposed changes are significant and obligating entities to shorten their verification testing and engineering analysis appears to be unjustified. It is also important to recognize that many entities do not have the internal expertise to conduct these tests and need the assistance of consultant/contractor to conduct these verification tests and associated analysis. For these reasons, we do not support the proposed reductions.

Section II, Part 3.1. EEI requests additional clarity regarding the "simplified one-line diagrams" representing the facility. While we agree that the one-line should include GSU, generator, and auxiliary equipment information, as needed by the Transmission Planner, we do not agree that all station service loads at all voltage levels need to be shown on the one-line. If this is not intended, we ask that modification be made to the language in Part 3.1 to make it clear this level of detail is not required.

Section II, Parts 6-8: Recommend removing requirement to create a composite capability curve (CCC). Transmission Planners have sufficient modeling information with Q Max & Q Min @ Pmin + Q Max & Q Min @ Pmax. A CCC will be tedious, and time consuming for GOs/TOs to create and provide little benefit to a TP. The TP cannot input the CCC into their modeling software directly, and the data it provides is redundant with the data required by Att 2 Section III.

Section 3. Note 1: EEI requests that a technical basis be provided for Note 1 (Section 3/Attachment 1). This note points out that the revisions to MOD-025-3 may not provide useable results for Transmission Planners under certain conditions and in those cases a simulation or engineering analysis will be required to address the limitations of the verification testing. The changes to MOD-025 were initiated to solve this issue but this note seems to indicate that the same issues that resulted in failed verification tests in the past may continue in the proposed MOD-025-3, Draft 2 version. Additional clarity within the technical rationale justifying Note 1 is requested.

Likes 0		
Dislikes 0		
Response		
Wayne Sipperly - North American Genera	ator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF	
Answer	No	
Document Name		
Comment		
a. Section 1.4 - Propose a reword of "Ve Power or Reactive Power capability by more "Nameplate" changes are rare and reflect so than a 10 percent increase or decrease of pb. Section II.3.1 – Recommend that the farepresented. The one-line should include Gothe standard would imply all station service c. Section II.6 to II.8 - Recommend remomodeling information with Q Max & Q Min @provide little benefit to a TP. The TP cannot required by Attachment 2 Section III.	for the proposed MOD-025-3 Attachment 1 be revised to address the following: rify an existing applicable Facility within 180 calendar days of the discovery of a change that affects its Real e than a 10 percent increase or decrease of the nameplate rating" as this may lead to confusion. One sort of machine upgrade, stator rewind, etc. Possible alternative wording for consideration is "by more reviously reported real or reactive power capability." acility simple one-line diagram not be so prescriptive regarding auxiliary equipment that has to be acility simple one-line diagram not be so prescriptive regarding auxiliary equipment that has to be acility simple one-line diagram not be so prescriptive regarding auxiliary equipment that has to be acility simple one-line diagram not be so prescriptive regarding auxiliary equipment that has to be acility simple one-line diagram not be so prescriptive regarding auxiliary equipment that has to be acility simple one-line diagram not be so prescriptive regarding auxiliary equipment that has to be acility simple one-line diagram not be so prescriptive regarding auxiliary equipment that has to be acility simple one-line diagram not be so prescriptive regarding auxiliary equipment that has to be accepted by the Transmission Planner. As worded, loads at all voltage levels need to be shown on the one-line. Ving requirement to create a composite capability curve (CCC). Transmission Planner has sufficient by Pmin + Q Max & Q Min @ Pmax. A CCC will be tedious and time consuming for GOs/TOs to create and tinput the CCC into their modeling software directly, and the data it provides is redundant with the data in provides is redundant with the data.	
Likes 0		
Dislikes 0		
Response		
Deanna Carlson - Cowlitz County PUD - 5		
Answer	No	
Document Name		
Comment		
Cowlitz County PUD No. 1 supports the con	nments submitted by Tacoma Public Utilites.	
Likes 0		
Dislikes 0		
Resnonse		

George E Brown - Pattern Operators LP	- 5	
Answer	No	
Document Name		
Comment		
Pattern Energy supports Midwest Reliability	Organization's NERC Standards Review Forum's (MRO NSRF) comments.	
Likes 0		
Dislikes 0		
Response		
Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Grou	up Name MRO NSRF	
Answer	No	
Document Name		
Comment		
	attachment 1 is a vast improvement over the currently effective version of the standard. However, the MRO e as outlined in the SAR's scope is being met.	
SAR Scope:		
4. Revisions to MOD-025-2 to ensure that verification activities produce data and information that can be used by Transmission Planners and Planning Coordinators for the purposes of developing accurate and reasonable plant active and reactive capability data (including possibly representation of the "composite capability curve" inclusive of capability and limiters, where applicable).		
5. Ensure that each Planning Coordinator and the area Transmission Planners develop requirements for the Planning Coordinator area real and reactive capability data verification		
6.Ensure that Generator Owners provide the	e data specified by the Planning Coordinator and Transmission Planners for the Planning Coordinator area	
Coordinators and include SAR Scope Item 3	Scope Item 1, then SAR Scope Item 2 must be developed by the Transmission Planners and Planning 3, et al. This approach would be similar to the approach of Transmission Planners & Planning Coordinators edifications for Real & Reactive power testing and reporting.	

Likes 0		
Dislikes 0		
Response		
Rajesh Geevarghese - Rajesh Geevarghese On Behalf of: Kinte Whitehead, Exelon, 1, 3; - Rajesh Geevarghese		
Answer	No	
Document Name		
Comment		
Exelon concurs with the comments submitted by the EEI.		
Likes 0		
Dislikes 0		
Response		
Daniel Gacek - Exelon - 1		
Answer	No	
Document Name		
Comment		
Exelon concurs with the comments submitted by the EEI.		
Likes 0		
Dislikes 0		
Response		
Andy Thomas - Duke Energy - 1,3,5,6 - S	ERC,RF	
Answer	No	
Document Name		
Comment		

Duke Energy recommends the SDT re-consider its following proposed language to ensure the intended outcome is achieved. The expected application of the criteria for a ' change that affects its Real Power or Reactive Power capability by more than a 10 percent increase or decrease of the nameplate rating' is unclear. Is the industry being asked to assess a change in capability to ensure they are staying within 10 percent of equipment nameplate rating or to assess the change against the last verified/reported capability to determine if it's a 10 percent change of the nameplate rating? Recommend re-using the language from MOD-025-1, 'changed by more than 10 percent of the last reported verified capability' or make additional clarifications on comparing to nameplate rating so that the industry assesses the changes and derives nameplate

Real and Reactive Power ratings consistently and in accordance with the intent of the revised language. As an example, there could be scenarios such as a 400 MVA (320 MW, 240 MVAr) nameplate rated generator which has been previously MOD-025 verified/reported to reflect the unit/facility maximum Real Power capability of 280 MW [maximum output limited by a particular process/equipment rating, e.g. boiler limited]. There is a subsequent change that limits output to 250 MW (30 MW change). The 30 MW is less than 10 percent of nameplate, but more than 10 percent of last verified/reported. Is re-verification required?		
Likes 0		
Dislikes 0		
Response		
Dave Krueger - SERC Reliability Corpora	tion - 10	
Answer	No	
Document Name		
Comment		
On behalf of the SERC Generator Working Group: #6-8: Requiring the composite curve is unnecessary as we are unsure the modeler can use that information. It is believed that they have sufficient MW/MVAR capability already		
Likes 1	LaKenya Vannorman, N/A, Vannorman LaKenya	
Dislikes 0		
Response		
Steven Rueckert - Western Electricity Co	ordinating Council - 10, Group Name WECC	
Answer	No	
Document Name		
Comment		
WECC agrees with the intent but believes the language may be unclear so some. The language in Criteria 3 identifies a condition, but then also seems to require an action. The last sentence "Verify the applicable Facility within 180 calendar days of its return to service date" is not a condition, but rather, worded as a requirment. WECC believes the language from Criteria 5 in posting 1 was adequate.		
Criteria 6.1 and 8.1 of Section II don't seem to require anything definate. It requires equipment manufacture data, but then indicates if equipment manufacture data is not available, use the "best available data." Two concerns, 1) what does "not available" mean. How much effort should be put in to obtaining equipment manufacture data, and 2) what is "best available?" Could it be nothing more than a guess?		
Likes 0		
Dislikes 0		
Response		

Stephen Whaite - Stephen Whaite On Behalf of: Lindsey Mannion, ReliabilityFirst , 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot Body Member and Proxies		
Answer	No	
Document Name		
Comment		
operational data. RF recommends the "enginesults or operational data that has been oblimitations encountered during testing or operational still be utilized to ensure unexpected	t 1 Section II Verification Specification 5 Methodology Options require the use of capability testing or neering review" option under the specification only be available for use to supplement capability testing tained. Engineering review and/or analysis should be performed to adjust recorded values to account for erations that do not reflect the true capability of the units, but capability testing results or operational data limiting factors are identified. For additional context to support RF's recommendation, please reference ted SAR as well as the Recommendation section of the publicly posted Power Plant Model Verification Task	
Likes 0		
Dislikes 0		
Response		
Mark Garza - FirstEnergy - FirstEnergy C	orporation - 4, Group Name FE Voter	
Answer	No	
	140	
Document Name		
Document Name Comment		
Comment		
Comment FirstEnergy supports EEI's Comment which	state:	
Comment FirstEnergy supports EEI's Comment which EEI does not support the following changes Section I, Parts 2, 3, 4: EEI does not support the periodicity for this testing has been reduction. The work associated with the programalysis appears to be unjustified. It is also	state:	
FirstEnergy supports EEI's Comment which EEI does not support the following changes Section I, Parts 2, 3, 4: EEI does not support the periodicity for this testing has been reduction. The work associated with the proparalysis appears to be unjustified. It is also the assistance of consultant/contractor to correductions.	state: to Attachment 1: t the reduction of time for verification testing of applicable facilities from 12 calendar months to 180 days en raised from 5 years to 10 raising the question what Reliability improvement might be achieved by this posed changes are significant and obligating entities to shorten their verification testing and engineering important to recognize that many entities do not have the internal expertise to conduct these tests and need	
FirstEnergy supports EEI's Comment which EEI does not support the following changes Section I, Parts 2, 3, 4: EEI does not support noting the periodicity for this testing has been reduction. The work associated with the properties analysis appears to be unjustified. It is also the assistance of consultant/contractor to consultant/contractor. Section I, Part 4: EEI questions whether the Verify an existing applicable Facility within 1	state: to Attachment 1: t the reduction of time for verification testing of applicable facilities from 12 calendar months to 180 days en raised from 5 years to 10 raising the question what Reliability improvement might be achieved by this exposed changes are significant and obligating entities to shorten their verification testing and engineering important to recognize that many entities do not have the internal expertise to conduct these tests and need and on the doubt these verification tests and associated analysis. For these reasons, we do not support the proposed	
FirstEnergy supports EEI's Comment which EEI does not support the following changes Section I, Parts 2, 3, 4: EEI does not support noting the periodicity for this testing has been reduction. The work associated with the properties appears to be unjustified. It is also the assistance of consultant/contractor to consultant/contractor. Section I, Part 4: EEI questions whether the Verify an existing applicable Facility within 1	state: to Attachment 1: t the reduction of time for verification testing of applicable facilities from 12 calendar months to 180 days en raised from 5 years to 10 raising the question what Reliability improvement might be achieved by this posed changes are significant and obligating entities to shorten their verification testing and engineering important to recognize that many entities do not have the internal expertise to conduct these tests and need and ond the ending of part 4 might be better stated as follows: 80 calendar days of the discovery of a change that affects the previously reported real or reactive	
FirstEnergy supports EEI's Comment which EEI does not support the following changes Section I, Parts 2, 3, 4: EEI does not support to the periodicity for this testing has been reduction. The work associated with the property analysis appears to be unjustified. It is also the assistance of consultant/contractor to correductions. Section I, Part 4: EEI questions whether the Verify an existing applicable Facility within 1 capability by more than a 10 percent increase.	state: to Attachment 1: t the reduction of time for verification testing of applicable facilities from 12 calendar months to 180 days en raised from 5 years to 10 raising the question what Reliability improvement might be achieved by this posed changes are significant and obligating entities to shorten their verification testing and engineering important to recognize that many entities do not have the internal expertise to conduct these tests and need and ond the ending of part 4 might be better stated as follows: 80 calendar days of the discovery of a change that affects the previously reported real or reactive	

Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro		
Answer	No	
Document Name		
Comment		
BC Hydro appreciates drafting team's consi	deration of our comments to Draft 1's Attachment 1.	
update the data models, BC Hydro maintain	nile BC Hydro fully understands the potential risk to reliability, and the need to promptly inform the TP and as the recommendation that the Standard provide an allowance to complete the model verification within up acluding operational and environmental restrictions) that are outside the Facility owner's control.	
Section II Item 5 : Based on the drafting team responses to our comments to Draft 1 (i.e. "multiple options exist to verify the capability of the Facility"), BC Hydro's understanding is that the Standard allows (per Section II Item 5) the use of, where appropriate, an engineering review as an alternative to staged testing (first bullet) or operational data (second bullet) for model verification. Please confirm if this understanding is accurate.		
Section II Bullet 3.1 .: BC Hydro's understanding regarding the requirement to create a "simplified one-line diagram representing the Facility" is that the generic example one-line diagram provided in Attachment 2 can be used for all Facilities that fit that diagram (points A, B, C, D, E, F in particular) as determined by the modeling engineer, and this is in line with the drafting team's intent. Please confirm whether this understanding is accurate.		
the manufacturer curve may no longer accu	s that the GO/TO must always use the equipment manufacturer's curve if available. In many cases, however, rately represent the unit capability, due to various modifications throughout the lifetime of the unit. BC Hydro allow for engineering judgment/analysis to be used in determining which available data is best for the	
Likes 0		
Dislikes 0		
Response		
Donald Lock - Talen Generation, LLC - 5		
Answer	No	
Document Name		
Comment		
Talen supports the comments of the NAGF.	Also, MOD-025 should have the same capacity factor exemption as MOD-026 and MOD-027.	
Likes 0		
Dislikes 0		
Response		
Nazra Gladu - Manitoba Hydro - 1		

Answer	No
Document Name	
Comment	
Please see the responses to questions 1 ar	nd 2.
Likes 0	
Dislikes 0	
Response	
Christine Kane - WEC Energy Group, Inc	3, Group Name WEC Energy Group
Answer	No
Document Name	
Comment	
WEC Energy Group supports the MRO NSF	RF, EEI and the NAGF comments.
Likes 0	
Dislikes 0	
Response	
	Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities , Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike
Answer	No
Document Name	
Comment	
The Attachments to MOD-025 include a mix of both actions needed for compliance and optional guidance for how to comply. This mix is confusing for entities who are trying to understand the baseline for compliance, and may also confuse ERO auditors who interpret the examples as required evidence. Tacoma Power recommends moving the examples or guidance of how to comply to either the Technical Rationale or an Implementation Guide.	
Likes 0	
Dislikes 0	
Response	
Adrian Raducea - DTE Energy - Detroit E	dison Company - 5, Group Name DTE Energy - DTE Electric

Answer	Yes	
Document Name		
Comment		
Section I. 2 leaving 180 days instead of 365 days currently required creates a problem for Wind Generation based on low wind season.		
Attachment 1, Sec 3.3: How much time is considered sufficient time to demonstrate the facility can operate at that real and reactive load level?		
Attachment 1, NOTE 1: What's the criteria/scope of the required simulation/engineering analysis to determine expected capacity under less restrictive system voltage.		
Likes 0		
Dislikes 0		
Response		
James Mearns - James Mearns On Behalf of: Dennis Sismaet, Northern California Power Agency, 4, 6, 3, 5; Jeremy Lawson, Northern California Power Agency, 4, 6, 3, 5; Jeremy Lawson, Northern California Power Agency, 4, 6, 3, 5; - James Mearns		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Daniela Hammons - CenterPoint Energy Houston Electric, LLC - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Anna Todd - Southern Indiana Gas and Electric Co 1,3,5,6 - RF		
Answer	Yes	

Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Donna Wood - Tri-State G and T Associa	ntion, Inc 1	
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		
Mike Magruder - Avista - Avista Corporation - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		

Response	
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kevin Conway - Public Utility District No	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Chris Wagner - Santee Cooper - 1, Group	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Wanda Kalidaaa II O Buuruu (D.	
Wendy Kalidass - U.S. Bureau of Reclam	
Answer	Yes
Document Name	

Comment		
Likes 0		
Dislikes 0		
Response		
Thomas Foltz - AEP - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	
Answer		
Document Name		
Comment		
	ns to be more commonly used in the Reliability Standards than "applicable entity". Furthermore, suggest complete the engineering review or analysis.	
In our opinion, there is no added value to specifying a minimal Facility outage time of 180 days to be allowed to delay from verification. If the entity is unable to verify a Facility because of a planned or unplanned outage, no matter the length of the outage, the entity should be allowed to perform verification within 180 days following its return to service date.		
Indeed, a minimal outage time of 180 days will actually force the entity to plan its verification on a 9.5-year period, instead of a 10-year period, in order to avoid a situation where an outage of less than 180 days would prevent them from meeting the planned verification date.		
Likes 0		
Dislikes 0		
Response		
Michael Jones - National Grid USA - 1		
Answer		

Document Name		
Comment		
	oping steady-state composite capability curve (CCC) for the Real Power and Reactive Power. Facilities: Please consider consolidating 4.2.5.1. into 4.2.5. Suggestion: "4.2.5 Voltage source converter erminal equipment."	
Likes 0		
Dislikes 0		
Response		
Gail Elliott - Gail Elliott On Behalf of: Mic	hael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer		
Document Name		
Comment		
ITC - no Comment From response received from Standard Owners or SMEs		
Likes 0		
Dislikes 0		
Response		

5. Do you agree the language proposed in MOD-025-3 Attachment 2? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.		
Thomas Foltz - AEP - 5		
Answer	No	
Document Name		
Comment		
devices such as FACTS devices. AEP sugg	ation devices, and because of this, some of the column titles include data which would not be applicable to gests that text be added to the Attachments to clearly indicate that not all data columns will apply to every adding the phrase "only as applicable for a given device" to table headings.	
Likes 0		
Dislikes 0		
Response		
Jennie Wike - Jennie Wike On Behalf of: Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Terry Gifford, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike		
Answer	No	
Document Name		
Comment		
	estions 1 and 4, Tacoma Power recommends ensuring the term "simplified one line" is used consistently line diagram" is still referenced, and should be changed to "simplified one line".	
Likes 1	Kelley Tim On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Fou	
Dislikes 0		
Response		
Christine Kane - WEC Energy Group, Inc	c 3, Group Name WEC Energy Group	
Answer	No	
Document Name		
Comment		
WEC Energy Group supports EEI, the MRC	NSRF and NAGF comments.	
Likes 0		

Dislikes 0		
Response		
Adrian Andreoiu - BC Hydro and Power A	Authority - 1, Group Name BC Hydro	
Answer	No	
Document Name		
Comment		
BC Hydro's understanding regarding the requirement to create a "simplified one-line diagram representing the Facility" is that the generic example one-line diagram provided in Attachment 2 can be used for all Facilities that fit that diagram (points A, B, C, D, E, F in particular) as determined by the modeling engineer, and this is in line with the drafting team's intent. Please confirm whether this understanding is accurate. BC Hydro noted within the PQ Curve Data Table (template) column 1 row 3 that the Pmax was revised to Pman in this Draft 2. Please clarify whether this is a typo or was intentional, and if so please provide additional clarity on this revision.		
Likes 0		
Dislikes 0		
Response		
Mark Garza - FirstEnergy - FirstEnergy C	orporation - 4, Group Name FE Voter	
Answer	No	
Document Name		
Comment		
See our response to Question 4.		
Likes 0		
Dislikes 0		
Response		
Daniel Gacek - Exelon - 1		
Answer	No	
Document Name		
Comment		
Exelon concurs with the comments submitted by the EEI.		

Likes 0		
Dislikes 0		
Response		
Rajesh Geevarghese - Rajesh Geevarghese On Behalf of: Kinte Whitehead, Exelon, 1, 3; - Rajesh Geevarghese		
Answer	No	
Document Name		
Comment		
Exelon concurs with the comments submitte	ed by the EEI.	
Likes 0		
Dislikes 0		
Response		
Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Grou	up Name MRO NSRF	
Answer	No	
Document Name		
Comment		
The MRO NSRF is not convinced that projects purpose as outlined in the SAR's scope is being met.		
SAR Scope:		
1. Revisions to MOD-025-2 to ensure that verification activities produce data and information that can be used by Transmission Planners and Planning Coordinators for the purposes of developing accurate and reasonable plant active and reactive capability data (including possibly representation of the "composite capability curve" inclusive of capability and limiters, where applicable).		
2. Ensure that each Planning Coordinator and the area Transmission Planners develop requirements for the Planning Coordinator area real and reactive capability data verification		
3. Ensure that Generator Owners provide the data specified by the Planning Coordinator and Transmission Planners for the Planning Coordinator area		

The MRO NSRF believes data should be p area as specified in the SAR scope.	rovided as specified by the Planning Coordinator and Transmission Planners for the Planning Coordinator
examples from Attachment 2 and placing the	e MRO NSRF suggests removing the simplified one-line diagram example and all composite capability curve nem in the technical rationale document, as Reliability Standards establish enforceable requirements. Also, lated tables need to be labeled in a clearer fashion to ensure associations are not misinterpreted.
Likes 0	
Dislikes 0	
Response	
George E Brown - Pattern Operators LP	- 5
Answer	No
Document Name	
Comment	
Pattern Energy supports Midwest Reliability	y Organization's NERC Standards Review Forum's (MRO NSRF) comments.
Likes 0	
Dislikes 0	
Response	
Deanna Carlson - Cowlitz County PUD -	5
Answer	No
Document Name	
Comment	
Cowlitz County PUD No. 1 supports the co	mments submitted by Tacoma Public Utilites.
Likes 0	
Dislikes 0	
Response	
Wayne Sipperly - North American Gener	rator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF

Answer	No	
Document Name		
Comment		
The NAGF recommends that the language	for the proposed MOD-025-3 Attachment 1 be revised to address the following:	
a. Introduction, 3rd bullet - Recommend that "Documentation showing the engineering basis and verification methodology" should be created by GOs/TOs and left on file if requested by TP. Recommend not making it a mandatory submission to the TP.		
b. Section II - See comments on Attachment 1 Section II.6 to II.8 above. CCC should not be a requirement of engineering analysis.		
c. Section III - PQ data table should not have rows beyond Pmin and Pmax. Data in between Pmin and Pmax can be reasonably interpolated by TP if required.		
Likes 1	LaKenya Vannorman, N/A, Vannorman LaKenya	
Dislikes 0		
Response		
Daniela Atanasovski - APS - Arizona Pub	lic Service Co 1	
Answer	No	
Document Name		
Comment		
AZPS supports the following comments sub	mitted by EEI on behalf of its members:	
Section II: Please see EEI's comments related to the Composite Capability Curve (CCC) under our response to question 5 (Attachment 1, Parts 6-8).		
Section II, Figure 2: EEI asks the SDT to align Figure 2 with the BES definition. Figure 2 show a single IBR's capability curve, but a resource of the size shown would only be applicable if the entire plant's resources aggregate to a value greater than 75MVA, under inclusion I4 of the BES definition (See BAL-003-3 Applicability Section). Such an example might incorrectly imply to an auditor that registered GOs are responsible for providing capability curves for each individual resources rather than a capability curve that reflects the aggregated plant capability.		
Section II, PQ Curve Data Table (template): The data table template should not require data entry beyond Pmin and Pmax. Data in between Pmin and Pmax can be reasonably interpreted by TP if required.		
Likes 0		
Dislikes 0		
Response		
Natalie Johnson - Enel Green Power - 5		
Answer	No	
Document Name		

Comment		
Enel supports comments made by the MRC	NSRF.	
Likes 0		
Dislikes 0		
Response		
Pamela Frazier - Southern Company - So	outhern Company Services, Inc 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern	
Answer	No	
Document Name		
Comment		
 Att 2 Introduction. Recommend "Documentation showing the engineering basis and verification methodology" should be created by GOs/TOs and left on file if requested by TP. Recommend not making it a mandatory submission to the TP. Att 2 Section II. See comments on Att 1 Section II.6-8. CCC should not be a requirement of engineering analysis. Att 2 Section III. PQ data table should not have rows beyond Pmin and Pmax. Data in between Pmin and Pmax can be reasonably interpolated by TP if required. The PC/TP needs to have a say in the verification data requirements as indicated by the SAR Project Scope. There is an error in the PQ Curve data table on page 21 of the clean -3 draft: The 2nd column title should be P (MW) rather than Pmax (MW). 		
Likes 0		
Dislikes 0		
Response		
Casey Perry - PNM Resources - 1,3 - WECC		
Answer	No	
Document Name		
Comment		
PNM supports EEI's recommended changes to Attachment 2.		
Likes 0		
Dislikes 0		
Response		
Srikanth Chennupati - Entergy - 1,3,5,6 - SERC		
Answer	No	

Document Name	
Comment	
Entergy recommends that the language for	the proposed MOD-025-3 Attachment 2 be revised to address the following:
need other limits plotted on the curv	run studies at different MW output levels than what the GO determines to be Pmax and Pmin and we also re like OEL. It have rows beyond Pmin and Pmax. This information is already provided in composite capability curve and
Likes 0	
Dislikes 0	
Response	
Andy Fuhrman - Andy Fuhrman On Beha	lf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman
Answer	No
Document Name	
Comment	
MPC supports MRO NERC Standards Revi	ew Forum comments.
Likes 0	
Dislikes 0	
Response	
Jennifer Bray - Arizona Electric Power Co	poperative, Inc 1
Answer	No
Document Name	
Comment	
AEPC signed on to ACES comments below	
The PQ Curve Data Table (template) indicates that Range = (Pman – Pmin). This change from the previous value of Pmax is not clear. Please provide a definition of what Pman is intended to represent.	
Likes 0	
Dislikes 0	
Response	

Alan Kloster - Alan Kloster On Behalf of 5, 1; Marcus Moor, Evergy, 3, 6, 5, 1; - Al	Jennifer Flandermeyer, Evergy, 3, 6, 5, 1; Jeremy Harris, Evergy, 3, 6, 5, 1; Kevin Frick, Evergy, 3, 6, an Kloster
Answer	No
Document Name	
Comment	
Evergy supports and incorporates by refere	nce the comemnts of the Edison Electric Institute (EEI) to questions #5.
Likes 0	
Dislikes 0	
Response	
Jamison Cawley - Nebraska Public Powe	er District - 1
Answer	No
Document Name	
Comment	
NPPD supports comments submitted by Mi	RO NSRF.
Likes 0	
Dislikes 0	
Response	
Kimberly Turco - Constellation - 6	
Answer	No
Document Name	
Comment	
Constellation agrees with comments made by NAGF.	
Kimberly Turco on behalf of Constellation Segments 5 and 6	
Likes 0	
Dislikes 0	
Response	

Hillary Creurer - Hillary Creurer On Beha	lf of: Lori Frisk, Allete - Minnesota Power, Inc., 1; - Hillary Creurer	
Answer	No	
Document Name		
Comment		
Minnesota Power supports EEI's comments	S.	
Likes 0		
Dislikes 0		
Response		
Claudine Bates - Black Hills Corporation	- 6	
Answer	No	
Document Name		
Comment		
Black Hills Corporation supports the NAGF comments.		
Likes 0		
Dislikes 0		
Response		
Sheila Suurmeier - Black Hills Corporation	on - 5	
Answer	No	
Document Name		
Comment		
Black Hills Corporation supports the NAGF comments		
Likes 0		
Dislikes 0		
Response		
Micah Runner - Black Hills Corporation -	·1	
Answer	No	

Document Name	
Comment	
Black Hills Corporation supports the NAGF	comments.
Likes 0	
Dislikes 0	
Response	
Israel Perez - Israel Perez On Behalf of: Timothy Singh, Salt River Project, 3, 5, 1	Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; , 6; - Israel Perez
Answer	No
Document Name	
Comment	
SRP supports Midwest Reliability Organiza	tion's NERC Standards Review Forum's (MRO NSRF) comments.
Likes 0	
Dislikes 0	
Response	
Martin Sidor - NRG - NRG Energy, Inc 0	6
Answer	No
Document Name	
Comment	
Further clarity on aux load definition is need (as it relates to points D and E on the diagram	ded; aux load less than 1% that supports unit output should not be required to be included in the calculation am).
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA	A - Not Applicable - NA - Not Applicable
Answer	No
Document Name	

Comment		
EEI offers the following recommended chan	iges to Attachment 2:	
Section II: Please see EEI's comments related to the Composite Capability Curve (CCC) under our response to question 5 (Attachment 1, Parts 6-8).		
be applicable if the entire plant's resources Applicability Section). Such an example might	BES definition. Figure 2 shows a single IBR's capability curve, but a resource of the size shown would only aggregate to a value greater than 75MVA, under inclusion I4 of the BES definition (See BAL-003-3 ght incorrectly imply to an auditor that registered GOs are responsible for providing capability curves for ability curve that reflects the aggregated plant capability.	
Section II, PQ Curve Data Table (template): Pmax can be reasonably interpreted by TP	The data table template should not require data entry beyond Pmin and Pmax. Data in between Pmin and if required.	
Likes 0		
Dislikes 0		
Response		
Alison MacKellar - Constellation - 5		
Answer	No	
Document Name		
Comment		
Constellation agrees with comments made	by NAGF.	
Alison Mackellar on behalf of Constellation	Segments 5 and 6	
Likes 0		
Dislikes 0		
Response		
Todd Bennett - Associated Electric Cooperative, Inc 3, Group Name AECI		
Answer	No	
Document Name		
Comment		
AECI is supportive of the comments provide	ed by the NAGF.	
Likes 0		
Dislikes 0		

Response		
David Jendras Sr - Ameren - Ameren Sei	rvices - 3	
Answer	No	
Document Name		
Comment		
We would like clarification on how they cam	ne up with the composite capability curve and the PQ data table in Attachment 2.	
Likes 0		
Dislikes 0		
Response		
Patricia Lynch - NRG - NRG Energy, Inc.	- 5	
Answer	No	
Document Name		
Comment		
	tation of "all" auxiliary equipment. There should be realistic limits to the size of an auxiliary sources that are ry source connection (Point E, Station Service Transformer) provide load less than 0.5% of Pmax, reporting	
In addition, the engineering analysis option requirement needs to have better tighter criteria /guidance around it so that it would be consistent subject to acceptance criteria.		
Finally, criteria for the TO should also be included for operational /staged testing and these parties held accountable for the test preparation and test conditions that will allow generators to be able to better meet their true capability limits.		
Likes 0		
Dislikes 0		
Response		
Michael Johnson - Michael Johnson On Behalf of: Frank Lee, Pacific Gas and Electric Company, 3, 1, 5; Marco Rios, Pacific Gas and Electric Company, 3, 1, 5; Sandra Ellis, Pacific Gas and Electric Company, 3, 1, 5; - Michael Johnson, Group Name PG&E All Segments		
Answer	No	
Document Name		
Comment		

PG&E does not support the proposed modi	fications and is in alignment with the Edison Electric Institute (EEI) recommended modifications.
Likes 0	
Dislikes 0	
Response	
Jodirah Green - ACES Power Marketing	- 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators
Answer	No
Document Name	
Comment	
The PQ Curve Data Table (template) indica a definition of what Pman is intended to rep	ates that Range = (Pman – Pmin). This change from the previous value of Pmax is not clear. Please provide present.
Likes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Aut	hority - 1,3,5,6 - SERC
Answer	No
Document Name	
Comment	
	excessive data collection and engineering efforts that will most likely require contracted testing engineering erransmission Planner comparable to the effort and cost that will be required to perform the work.
Likes 0	
Dislikes 0	
Response	
Ruchi Shah - AES - AES Corporation - 5	
Answer	No
Document Name	
Comment	

Pmax, Pmin, Qmax, and Qmin results are not adequate to be used in the models.		
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		
Adrian Raducea - DTE Energy - Detroit E	dison Company - 5, Group Name DTE Energy - DTE Electric	
Answer	Yes	
Document Name		
Comment		
The PQ data table required will add addition time.	nal MW points where Qmax and Qmin need to be determine. These additional steps will add additional test	
Likes 0		
Dislikes 0		
Response		
Junji Yamaguchi - Hydro-Quebec (HQ) -	5	
Answer	Yes	
Document Name		
Comment		
We support RSC comments		

Likes 0	
Dislikes 0	
Response	
Wendy Kalidass - U.S. Bureau of Reclam	ation - 5
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	
Nazra Gladu - Manitoba Hydro - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kevin Conway - Public Utility District No	. 1 of Pend Oreille County - 3 - WECC

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	
Cain Braveheart - Bonneville Power Adm	ninistration - 1,3,5,6 - WECC
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	
Stephen Whaite - Stephen Whaite On Be Body Member and Proxies	half of: Lindsey Mannion, ReliabilityFirst, 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot
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	
Steven Rueckert - Western Electricity Co	pordinating Council - 10, Group Name WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Dave Krueger - SERC Reliability Corpora	ation - 10

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Donna Wood - Tri-State G and T Associa	tion, Inc 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Anna Todd - Southern Indiana Gas and E	Electric Co 1,3,5,6 - RF
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Stephen Stafford - Georgia Transmission Corporation - NA - Not Applicable - SERC	
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0	
Response	
Harishkumar Subramani Vijay Kumar - Ir	ndependent Electricity System Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Steven Taddeucci - NiSource - Northern	Indiana Public Service Co 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Daniela Hammons - CenterPoint Energy	Houston Electric, LLC - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mohamed Derbas - Sempra - San Diego Gas and Electric - 1	
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; Pedro Juarez, 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 / BANC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
James Mearns - James Mearns On Beha California Power Agency, 4, 6, 3, 5; Mart	If of: Dennis Sismaet, Northern California Power Agency, 4, 6, 3, 5; Jeremy Lawson, Northern y Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Charles Yeung - Southwest Power Pool,	Inc. (RTO) - 2 - MRO,WECC, Group Name SRC 2023	
Answer	Yes	
Document Name		
Comment		

Likes 0		
Dislikes 0		
Response		
Kennedy Meier - Electric Reliability Council of Texas, Inc 2		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Gail Elliott - Gail Elliott On Behalf of: Mic	chael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer		
Document Name		
Comment		
ITC - no Comment From response received from Standard Owners or SMEs		
ITC - no Comment From response received	from Standard Owners or SMEs	
ITC - no Comment From response received Likes 0	l from Standard Owners or SMEs	
	I from Standard Owners or SMEs	
Likes 0	I from Standard Owners or SMEs	

6. Do you agree the language proposed in MOD-025-3 Attachment 3? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.		
Dennis Chastain - Tennessee Valley Autl	hority - 1,3,5,6 - SERC	
Answer	No	
Document Name		
Comment		
	xcessive data collection and engineering efforts that will most likely require contracted testing engineering Transmission Planner comparable to the effort and cost that will be required to perform the work.	
Likes 0		
Dislikes 0		
Response		
	Behalf of: Frank Lee, Pacific Gas and Electric Company, 3, 1, 5; Marco Rios, Pacific Gas and Electric as and Electric Company, 3, 1, 5; - Michael Johnson, Group Name PG&E All Segments	
Answer	No	
Document Name		
Comment		
PG&E is in agreement with the input from the those in MOD-032 and if they are duplicative	ne Edison Electric Institute (EEI) on the whether the data requirements of Attachment 3 are duplicative of e, they should be removed.	
Likes 0		
Dislikes 0		
Response		
Patricia Lynch - NRG - NRG Energy, Inc.	- 5	
Answer	No	
Document Name		
Comment		

Section II.7.2 and III.4 require the representation of "all" auxiliary equipment. There should be realistic limits to the size of an auxiliary sources that are required for reporting. If a separate auxiliary source connection (Point E, Station Service Transformer) provide load less than 0.5% of Pmax, reporting of auxiliary load should be excluded.

In addition, the engineering analysis option requirement needs to have better tighter criteria /guidance around it so that it would be consistent subject to

acceptance criteria.		
Finally, criteria for the TO should also be included for operational /staged testing and these parties held accountable for the test preparation and test		
conditions that will allow generators to be a	ble to better meet their true capability limits.	
Likes 0		
Dislikes 0		
Response		
Todd Bennett - Associated Electric Coop	perative, Inc 3, Group Name AECI	
Answer	No	
Document Name		
Comment		
AECI is supportive of the comments provide	ed by the NAGF.	
Likes 0		
Dislikes 0		
Response		
Alison MacKellar - Constellation - 5		
Answer	No	
Document Name		
Comment		
Constellation agrees with comments made	by NAGE.	
Alison Mackellar on behalf of Constellation Segments 5 and 6		
Alison Wackellar on behalf of Constellation	Segments 3 and 0	
Likes 0		
Dislikes 0		
Response		
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable		
Answer	No	
Document Name		
Comment		

	pear duplicative of those in MOD-032. If they are duplicative, they should be removed from Attachment 3 in why they are needed within both MOD-032 and MOD-025.
Likes 0	
Dislikes 0	
Response	
Martin Sidor - NRG - NRG Energy, Inc 6	
Answer	No
Document Name	
Comment	
Further clarity on aux load definition is need (as it relates to points D and E on the diagra	led; aux load less than 1% that supports unit output should not be required to be included in the calculation am).
Likes 0	
Dislikes 0	
Response	
Israel Perez - Israel Perez On Behalf of: Timothy Singh, Salt River Project, 3, 5, 1	Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; , 6; - Israel Perez
Answer	No
Document Name	
Comment	
SRP supports Midwest Reliability Organiza	tion's NERC Standards Review Forum's (MRO NSRF) comments.
Likes 0	
Dislikes 0	
Response	
Micah Runner - Black Hills Corporation -	1
Answer	No
Document Name	
Comment	

Black Hills Corporation supports the NAGF comments.		
Likes 0		
Dislikes 0		
Response		
Sheila Suurmeier - Black Hills Corporation - 5		
Answer	No	
Document Name		
Comment		
Black Hills Corporation supports NAGF comments.		
Likes 0		
Dislikes 0		
Response		
Claudine Bates - Black Hills Corporation	- 6	
Answer	No	
Document Name		
Comment		
Black Hills Corporation supports the NAGF comments.		
Likes 0		
Dislikes 0		
Response		
Hillary Creurer - Hillary Creurer On Behalf of: Lori Frisk, Allete - Minnesota Power, Inc., 1; - Hillary Creurer		
Answer	No	
Document Name		
Comment		
Minnesota Power supports EEI's comments.		

Likes 0		
Dislikes 0		
Response		
Kimberly Turco - Constellation - 6		
Answer	No	
Document Name		
Comment		
Constellation agrees with comments made by NAGF.		
Kimberly Turco on behalf of Constellation S	regimente o dina o	
Likes 0		
Dislikes 0		
Response		
Jamison Cawley - Nebraska Public Power District - 1		
Answer	No	
Document Name		
Comment		
NPPD supports comments submitted by MRO NSRF.		
Likes 0		
Dislikes 0		
Response		
Alan Kloster - Alan Kloster On Behalf of: Jennifer Flandermeyer, Evergy, 3, 6, 5, 1; Jeremy Harris, Evergy, 3, 6, 5, 1; Kevin Frick, Evergy, 3, 6, 5, 1; Marcus Moor, Evergy, 3, 6, 5, 1; - Alan Kloster		
Answer	No	
Document Name		
Comment		

Evergy supports and incorporates by reference the comemnts of the Edison Electric Institute (EEI) to questions #6.		
Likes 0		
Dislikes 0		
Response		
Andy Fuhrman - Andy Fuhrman On Beha	alf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman	
Answer	No	
Document Name		
Comment		
MPC supports MRO NERC Standards Rev	iew Forum comments.	
Likes 0		
Dislikes 0		
Response		
Srikanth Chennupati - Entergy - 1,3,5,6 -	SERC	
Answer	No	
Document Name		
Comment		
None		
Likes 0		
Dislikes 0		
Response		
Pamela Frazier - Southern Company - Southern Company Services, Inc 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company		
Answer	No	
Document Name		
Comment		
The PC/TP needs to have a say in the verif	fication data requirements as indicated by the SAR Project Scope.	

Likes 0		
Dislikes 0		
Response		
Natalie Johnson - Enel Green Power - 5		
Answer	No	
Document Name		
Comment		
Enel supports comments made by the MRO NSRF.		
Likes 0		
Dislikes 0		
Response		
Daniela Atanasovski - APS - Arizona Puk	olic Service Co 1	
Answer	No	
Document Name		
Comment		
AZPS supports the following comments submitted by EEI on behalf of its members:		
EEI questions whether the data requirements of Attachment 3 are duplicative of those in MOD-032. If they are in fact, duplicative, they should be removed from Attachment 3 prior to the next draft of MOD-025, or explain why they are needed within both MOD-032 and MOD-025.		
Likes 0		
Dislikes 0		
Response		
Wayne Sipperly - North American Generator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF		
Answer	No	
Document Name		
Comment		
The NAGF notes that the same data may already be available via MOD-032.		

Likes 1	LaKenya Vannorman, N/A, Vannorman LaKenya	
Dislikes 0		
Response		
George E Brown - Pattern Operators LP	- 5	
Answer	No	
Document Name		
Comment		
Pattern Energy supports Midwest Reliability	Organization's NERC Standards Review Forum's (MRO NSRF) comments.	
Likes 0		
Dislikes 0		
Response		
Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF		
Answer	No	
Document Name		
Comment		
The MRO NSRF is not convinced that projects purpose as outlined in the SAR's scope is being met.		
SAR Scope:		
4. Revisions to MOD-025-2 to ensure that verification activities produce data and information that can be used by Transmission Planners and Planning Coordinators for the purposes of developing accurate and reasonable plant active and reactive capability data (including possibly representation of the "composite capability curve" inclusive of capability and limiters, where applicable).		
5. Ensure that each Planning Coordinator and the area Transmission Planners develop requirements for the Planning Coordinator area real and reactive capability data verification		
6. Ensure that Generator Owners provide the data specified by the Planning Coordinator and Transmission Planners for the Planning Coordinator area		

The MRO NSRF believes data should be prarea as specified in the SAR scope.	rovided as specified by the Planning Coordinator and Transmission Planners for the Planning Coordinator
Likes 0	
Dislikes 0	
Response	
Andy Thomas - Duke Energy - 1,3,5,6 - S	ERC,RF
Answer	No
Document Name	
Comment	
or MOD-032. Does this language create re- information is not able to be 'verified	idded additional data requirements for nameplate data which can be captured or is required under VAR-002 work and duplication of efforts for limited personnel/resources, versus simplifying? Is it understood that some ' during unit operation? Examples could be: (a) transformer tap changer settings which are located on it acceptable to document 'unable to verify'? and (b) Is there guidance on leaving blanks or
Likes 0	
Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy C	corporation - 4, Group Name FE Voter
Answer	No
Document Name	
Comment	
FE supports EEI's comments which state:	ents of Attachment 3 because they appear to be duplicative of those in MOD-032.
	The of Attachment of Boodage and appear to be deprised to of these in Med code.
Likes 0	
Dislikes 0	
Response	
Donald Lock - Talen Generation, LLC - 5	
Answer	No
Document Name	

Comment		
Talen supports the comments of the NAGF.		
Likes 0		
Dislikes 0		
Response		
Christine Kane - WEC Energy Group, Inc	e 3, Group Name WEC Energy Group	
Answer	No	
Document Name		
Comment		
WEC Energy Group supports the MRO NSRF and the NAGF comments.		
Likes 0		
Dislikes 0		
Response		
Thomas Foltz - AEP - 5		
Answer	No	
Document Name		
Comment		
Please see response to Question #5.		
Likes 0		
Dislikes 0		
Response		
Junji Yamaguchi - Hydro-Quebec (HQ) - 5		
Answer	Yes	
Document Name		
Comment		

We support RSC comments		
Likes 0		
Dislikes 0		
Response		
Casey Perry - PNM Resources - 1,3 - WE	cc	
Answer	Yes	
Document Name		
Comment		
PNM supports the language contained in Af	ttachment 3.	
Likes 0		
Dislikes 0		
Response		
Deanna Carlson - Cowlitz County PUD -	5	
Answer	Yes	
Document Name		
Comment		
Deanna Carlson, Cowlitz County PUD No. 1, 5, 6/7/2023		
Likes 0		
Dislikes 0		
Response		
Rajesh Geevarghese - Rajesh Geevarghese On Behalf of: Kinte Whitehead, Exelon, 1, 3; - Rajesh Geevarghese		
Answer	Yes	
Document Name		
Comment		
Exelon concurs with the comments submitted by the EEI.		

Likes 0		
Dislikes 0		
Response		
Daniel Gacek - Exelon - 1		
Answer	Yes	
Document Name		
Comment		
Exelon concurs with the comments submitted by the EEI.		
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		
Charles Yeung - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC, Group Name SRC 2023		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Ruchi Shah - AES - AES Corporation - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Jodirah Green - ACES Power Marketing	- 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
	If of: Dennis Sismaet, Northern California Power Agency, 4, 6, 3, 5; Jeremy Lawson, Northern	
California Power Agency, 4, 6, 3, 5; Mart	y Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns	
California Power Agency, 4, 6, 3, 5; Mart	Yes Yes	
Answer		
Answer Document Name		
Answer Document Name		
Answer Document Name Comment		
Answer Document Name Comment Likes 0		
Answer Document Name Comment Likes 0 Dislikes 0		
Answer Document Name Comment Likes 0 Dislikes 0 Response Tim Kelley - Tim Kelley On Behalf of: Ch Utility District, 3, 6, 4, 1, 5; Kevin Smith,		
Answer Document Name Comment Likes 0 Dislikes 0 Response Tim Kelley - Tim Kelley On Behalf of: Ch Utility District, 3, 6, 4, 1, 5; Kevin Smith, 6, 4, 1, 5; Pedro Juarez, Sacramento Muri	Yes 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,	

Comment		
Likes 0		
Dislikes 0		
Response		
David Jendras Sr - Ameren - Ameren Services - 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mohamed Derbas - Sempra - San Diego	Gas and Electric - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Daniela Hammons - CenterPoint Energy Houston Electric, LLC - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Steven Taddeucci - NiSource - Northern Indiana Public Service Co 3	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jennifer Bray - Arizona Electric Power C	Cooperative, Inc 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Harishkumar Subramani Vijay Kumar - I	ndependent Electricity System Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Stephen Stafford - Georgia Transmissio	n Corporation - NA - Not Applicable - SERC
Answer	Yes
Document Name	
Comment	

Likes 0		
Dislikes 0		
Response		
Anna Todd - Southern Indiana Gas and E	Electric Co 1,3,5,6 - RF	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Adrian Raducea - DTE Energy - Detroit E	dison Company - 5, Group Name DTE Energy - DTE Electric	
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		

Dave Krueger - SERC Reliability Corporation - 10		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Steven Rueckert - Western Electricity Co	pordinating Council - 10, Group Name WECC	
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		
Stephen Whaite - Stephen Whaite On Behalf of: Lindsey Mannion, ReliabilityFirst, 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot Body Member and Proxies		
Answer	Yes	
Document Name		
Comment		

Likes 0		
Dislikes 0		
Response		
Mike Magruder - Avista - Avista Corporat	ion - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Adrian Andreoiu - BC Hydro and Power A	Authority - 1, Group Name BC Hydro	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Kevin Conway - Public Utility District No. 1 of Pend Oreille County - 3 - WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Nazra Gladu - Manitoba Hydro - 1		
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		
Jennie Wike - Jennie Wike On Behalf of: (Tacoma, WA), 1, 4, 5, 6, 3; Terry Gifford,	Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities , Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike	
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Wendy Kalidass - U.S. Bureau of Reclam	ation - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Decues	
Response	
Response	
•	chael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott
•	chael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott
Gail Elliott - Gail Elliott On Behalf of: Mic	chael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott
Gail Elliott - Gail Elliott On Behalf of: Mic	chael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott
Gail Elliott - Gail Elliott On Behalf of: Mic Answer Document Name	
Gail Elliott - Gail Elliott On Behalf of: Mic Answer Document Name Comment	
Gail Elliott - Gail Elliott On Behalf of: Michael Answer Document Name Comment ITC - no Comment From response received	
Gail Elliott - Gail Elliott On Behalf of: Michael Answer Document Name Comment ITC - no Comment From response received Likes 0	

	OD-025-3 addresses the issues outlined in the two SARs in a cost effective manner. Do you agree? If ave suggestions for improvement to enable more cost effective approaches, please provide your chnical or procedural justification.
Christine Kane - WEC Energy Group, In	c 3, Group Name WEC Energy Group
Answer	No
Document Name	
Comment	
WEC Energy Group supports the MRO NS	SRF and the NAGF comments.
Likes 0	
Dislikes 0	
Response	
Nazra Gladu - Manitoba Hydro - 1	
Answer	No
Document Name	
Comment	
verification process should be simplified a increases compliance costs with a minimu difficulty in obtaining some of the required burden on the generation and transmission	Owner, Transmission Owner and Transmission Planner, which is detrimental to system reliability. The nd adding more description to the process may not translate to more accuracy in the modeling. It significantly m improvement in reliability. The proposed verification process requires significant time, expertise, and information for the older plant (which may increase the risk of noon compliance). Most likely will put a lot of nowners in preparing this documentation and analysis at the same time the burden of planners reviewing this cerns and this documentation may not be used by planners for modeling purposes.
Likes 0	
Dislikes 0	
Response	
Donald Lock - Talen Generation, LLC -	5
Answer	No
Document Name	
Comment	
Talen supports the comments of the NAG	F. Also, there is no cost effectiveness if TPs discard the GO's calculations and use only as-measured VAR

test results.	
Likes 0	
Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy C	corporation - 4, Group Name FE Voter
Answer	No
Document Name	
Comment	
Until the DT provides clarification and guida	nce, FirstEnergy cannot determine the scope of this standard in a cost effective manner.
Likes 0	
Dislikes 0	
Response	
Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Gro	up Name MRO NSRF
Answer	No
Document Name	
Comment	
The MRO NSRF is not convinced that proje four, five & six.	cts purpose as outlined in the SAR's scope is being met, please see comments to questions one, two, three,
Likes 0	
Dislikes 0	
Response	
George E Brown - Pattern Operators LP	- 5
Answer	No
Document Name	
Comment	
Pattern Energy supports Midwest Reliability	Organization's NERC Standards Review Forum's (MRO NSRF) comments.

Likes 0	
Dislikes 0	
Response	
Wayne Sipperly - North American General	ator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF
Answer	No
Document Name	
Comment	
still mandatory. If so, testing at additional lo	equately assess the cost effectiveness of the proposed approach. In addition, it is unclear if a staged test is pad points (20%, 40%, 60%, 80%) will increase testing times for limited value. This increase in testing times stem as well as contractor testing costs for those entities that do not have the in-house plant expertise to test.
Likes 1	LaKenya Vannorman, N/A, Vannorman LaKenya
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Puk	olic Service Co 1
Answer	No
Document Name	
Comment	
does not agree that the proposed implemen	f MOD-025-3 addresses the issues outlined in the two SARs in a cost effective manner. However, AZPS ntation plan related to MOD-025-3 is cost effective as it accelerates the periodicity time frames currently sult in additional verifications within the first three years.
Likes 0	
Dislikes 0	
Response	
Natalie Johnson - Enel Green Power - 5	
Answer	No
Document Name	
Comment	
Enel supports comments made by the MRC) NSRF.

Likes 0	
Dislikes 0	
Response	
Stephen Stafford - Georgia Transmissior	n Corporation - NA - Not Applicable - SERC
Answer	No
Document Name	
Comment	
 however, the PC is not added as a Item 2 in the Project Scope section It is not clear how this proposed sta 	eed to produce data that can be used ty the TP and PC and for the need for these two entities to verify data, recipient of the data in the proposed standard. is not addressed in the proposed revision. That item seems to already be provided for in MOD-032. Indard revision aligns MOD-025 with MOD-032 as stated in #7 in the Project Scope section. The proposal and to the PC as is provided for in MOD-032.
Likes 0	
Dislikes 0	
Response	
Pamela Frazier - Southern Company - So Company	uthern Company Services, Inc 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern
Answer	No
Document Name	
Comment	
 "2. Ensure that each Planning Coor and reactive capability data verifica 	e PC/TP are to develop real and reactive capability requirements and data provision specifications, but there ave them do so. See these two items in that section: dinator and the area Transmission Planners develop requirements for the Planning Coordinator area real tion." provide the data specified by the Planning Coordinator and Transmission Planners for the Planning
Likes 0	
Dislikes 0	
Response	
Srikanth Chennupati - Entergy - 1,3,5,6 -	SERC
Answer	No
Document Name	

	is still mandatory. If so, testing at additional load points (20%, 40%, 60%, 80%) will increase testing times for nes will affect how units are offered in to the system as well as contractor testing costs for those entities that do test.
Likes 0	
Dislikes 0	
Response	
Andy Fuhrman - Andy Fuhrman On Be	ehalf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman
Answer	No
Document Name	
Comment	
is available for planning models used to a party. The proposed changes do not ens	to "ensure that accurate information on Bulk Electric System (BES) Facility Real and Reactive Power capability assess BES Reliability," then more attention needs to be given to what information is needed by the modeling cure that the final consumer of the information is receiving what they need because the current standard does is to request information from the GO/TO.
Likes 0	
Dislikes 0	
Response	
Jamison Cawley - Nebraska Public Po	wer District - 1
Answer	No
Document Name	
Comment	
NPPD supports comments submitted by	MRO NSRF.
Likes 0	
Dislikes 0	
Response	<u>and the state of </u>

Comment

Kimberly Turco - Constellation - 6		
Answer	No	
Document Name		
Comment		
that needs to be collected and documented provided and potential need to hire external	will be extremely cost burdensome to the Generator Owner due to the change to the forms and required data condensed time frame to provide data to the Transmission Planner, condensed timeframe for data to be resources (contractors) to meet the additional data prescribed. In addition, as previously mentioned in the draft does not change any of the existing testing periodicities or data currently imposed by the egments 5 and 6	
Likes 0		
Dislikes 0		
Response		
Israel Perez - Israel Perez On Behalf of: C Timothy Singh, Salt River Project, 3, 5, 1	ennifer Bennett, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; 6; - Israel Perez	
Answer	No	
Document Name		
Comment		
SRP disagrees with changing verification pe	eriod from 90 days to 30. The cost to change from 90 days to 30 is unknown.	
Likes 0		
Dislikes 0		
Response		
Martin Sidor - NRG - NRG Energy, Inc 6		
Answer	No	
Document Name		
Comment		
Most MOD-025 test reports submitted to date have not been reviewed or used by the TPs or ISOs. Generator Owners have consistently seen this in different regions. ISOs mandate their own criteria for capability testing, rendering the standard ineffective. The drafting team should research the different ISO capability test requirements and establish a common method to determine Real and Reactive Power capability or remove MOD-025.		
Likes 0		

Dislikes 0	
Response	
Alison MacKellar - Constellation - 5	
Answer	No
Document Name	
Comment	
that needs to be collected and documented provided and potential need to hire external	vill be extremely cost burdensome to the Generator Owner due to the change to the forms and required data, condensed time frame to provide data to the Transmission Planner, condensed timeframe for data to be resources (contractors) to meet the additional data prescribed. In addition, as previously mentioned in the v draft does not change any of the existing testing periodicities or data currently imposed by the Segments 5 and 6
Likes 0	
Dislikes 0	
Response	
Todd Bennett - Associated Electric Coop	perative, Inc 3, Group Name AECI
Answer	No
Document Name	
Comment	
AECI is supportive of the comments provide	ed by the NAGF.
Likes 0	
Dislikes 0	
Response	
Patricia Lynch - NRG - NRG Energy, Inc.	- 5
Answer	No
Document Name	
Comment	

Submitted MOD-025 test reports to date have not been reviewed or used by the TPs or ISOs. Generator Owners have consistently seen this in different regions. ISOs mandate their own criteria for capability testing, rendering the standard ineffective. The drafting team should research the different ISO

capability test requirements and establish a	common method to determine Real and Reactive Power capability or remove MOD-025.
Likes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Autl	nority - 1,3,5,6 - SERC
Answer	No
Document Name	
Comment	
This draft of the standard still does not serv	e the intended purpose of the standard and does not justify the added costs.
Likes 0	
Dislikes 0	
Response	
Ruchi Shah - AES - AES Corporation - 5	
Answer	No
Document Name	
Comment	
The data collected and its use does not just	tify the cost of testing or documentation creation/retention.
Likes 0	
Dislikes 0	
Response	
Alan Kloster - Alan Kloster On Behalf of: 5, 1; Marcus Moor, Evergy, 3, 6, 5, 1; - Ala	Jennifer Flandermeyer, Evergy, 3, 6, 5, 1; Jeremy Harris, Evergy, 3, 6, 5, 1; Kevin Frick, Evergy, 3, 6, an Kloster
Answer	No
Document Name	
Comment	
Likes 0	

Dislikes 0	
Response	
Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF	
Answer	Yes
Document Name	
Comment	
None.	
Likes 0	
Dislikes 0	
Response	
Junji Yamaguchi - Hydro-Quebec (HQ) -	5
Answer	Yes
Document Name	
Comment	
We support RSC comments	
Likes 0	
Dislikes 0	
Response	
	lf of: Dennis Sismaet, Northern California Power Agency, 4, 6, 3, 5; Jeremy Lawson, Northern y Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns
Answer	Yes
Document Name	
Comment	
The only potential concern would be reliand power factor load rejection) should be used	ce on strictly engineering analysis for the verification. Some tie to test results (Pmax testing, De Mello zero-
Likes 0	
Dislikes 0	

Response	
Charles Yeung - Southwest Power Pool	I, Inc. (RTO) - 2 - MRO,WECC, Group Name SRC 2023
Answer	Yes
Document Name	
Comment	
	es may incur cost to comply with MOD-025, however, the cost is warranted as the need for operational ate modeling purposes and ultimately the reliable operation of the BES.
Likes 0	
Dislikes 0	
Response	
Kennedy Meier - Electric Reliability Cou	ıncil of Texas, Inc 2
Answer	Yes
Document Name	
Comment	
ERCOT joins the comments submitted by	the IRC SRC and adopts them as its own.
Likes 0	
Dislikes 0	
Response	
Wendy Kalidass - U.S. Bureau of Recla	mation - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

	Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike
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	
Kevin Conway - Public Utility District No	. 1 of Pend Oreille County - 3 - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Cain Braveheart - Bonneville Power Adm	ninistration - 1,3,5,6 - WECC
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		
Stephen Whaite - Stephen Whaite On Be Body Member and Proxies	half of: Lindsey Mannion, ReliabilityFirst , 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot	
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	
Dave Krueger - SERC Reliability Corpora	ation - 10
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Donna Wood - Tri-State G and T Associa	ation, Inc 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Adrian Raducea - DTE Energy - Detroit E	Edison Company - 5, Group Name DTE Energy - DTE Electric
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Anna Todd - Southern Indiana Gas and I	Electric Co 1,3,5,6 - RF
Answer	Yes
Document Name	

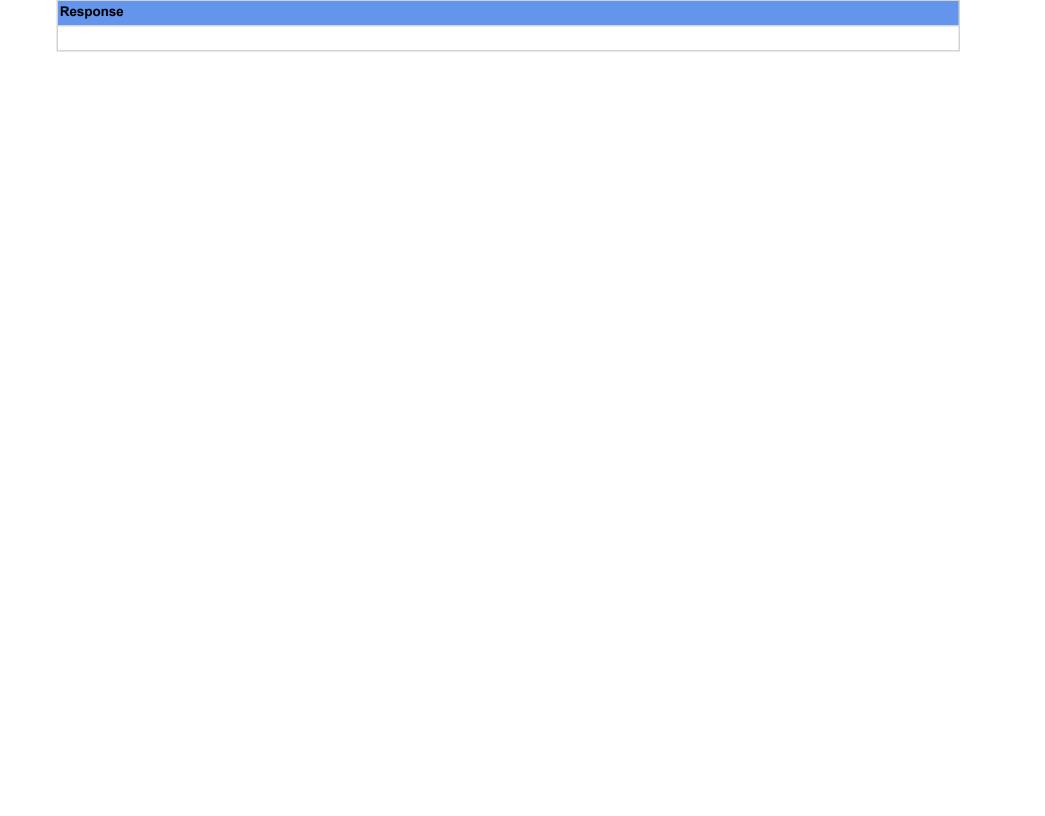
Comment		
Likes 0		
Dislikes 0		
Response		
Casey Perry - PNM Resources - 1,3 - WE	cc	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Harishkumar Subramani Vijay Kumar - In	ndependent Electricity System Operator - 2	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Jennifer Bray - Arizona Electric Power Cooperative, Inc 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Steven Taddeucci - NiSource - Northern	Indiana Public Service Co 3		
Answer	Yes		
Document Name			
Comment			
Likes 0			
Dislikes 0			
Response			
Mohamed Derbas - Sempra - San Diego	Gas and Electric - 1		
Answer	Yes		
Document Name			
Comment			
Likes 0			
Dislikes 0			
Response			
Utility District, 3, 6, 4, 1, 5; Kevin Smith,	narles 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	Yes		
Document Name			
Comment			
Likes 0			
Dislikes 0			
Response			
Jodirah Green - ACES Power Marketing	- 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators		
Answer	Yes		

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity Co	ordinating Council - 10, Group Name WECC
Answer	
Document Name	
Comment	
No Comment	
Likes 0	
Dislikes 0	
Response	
Deanna Carlson - Cowlitz County PUD - 5	5
Answer	
Document Name	
Comment	
N/A	
Deanna Carlson, Cowlitz County PUD No. 1	1, 5, 6/7/2023
Likes 0	
Dislikes 0	
Response	
Hillary Creurer - Hillary Creurer On Beha	lf of: Lori Frisk, Allete - Minnesota Power, Inc., 1; - Hillary Creurer
Answer	
Document Name	
Comment	

Minnesota Power will not be providing comments on cost-effectiveness at this time.		
Likes 0		
Dislikes 0		
Response		
Claudine Bates - Black Hills Corporation	- 6	
Answer		
Document Name		
Comment		
Black Hills Corporation will not provide com	ment on cost-effectiveness.	
Likes 0		
Dislikes 0		
Response		
Sheila Suurmeier - Black Hills Corporation	n - 5	
Answer		
Document Name		
Comment		
Black Hills Corporation will not provide com	ment for cost-effectiveness.	
Likes 0		
Dislikes 0		
Response		
Micah Runner - Black Hills Corporation -	1	
Answer		
Document Name		
Comment		
Black Hills Corporation will not provide com	ment on cost-effectiveness.	

Likes 0	
Dislikes 0	
Response	
Gail Elliott - Gail Elliott On Behalf of: Mic	chael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott
Answer	
Document Name	
Comment	
ITC - no Comment From response received	I from Standard Owners or SMEs
Likes 0	
Dislikes 0	
Response	
David Jendras Sr - Ameren - Ameren Sei	rvices - 3
Answer	
Document Name	
Comment	
No comment.	
Likes 0	
Dislikes 0	
Response	
Michael Johnson - Michael Johnson On Company, 3, 1, 5; Sandra Ellis, Pacific G	Behalf of: Frank Lee, Pacific Gas and Electric Company, 3, 1, 5; Marco Rios, Pacific Gas and Electric as and Electric Company, 3, 1, 5; - Michael Johnson, Group Name PG&E All Segments
Answer	
Document Name	
Comment	
At this time PG&E has not been able to con	nplete a cost analysis on the impact of the modifications.
Likes 0	
Dislikes 0	



8. The SDT proposes a 1-year implementation plan for MOD-025-3 Requirements R3 and R4, with an additional 2 years (3 years total) for compliance with Requirements R1 and R2. For Requirements R1 and R2 with reoccurring periodicity for existing Facilities, the Implementation Plan proposes applicable entities shall initially comply within 66 calendar months of their last performance under the respective requirements of MOD-025-2 (Requirement R1, R2, and R3). Would these proposed timeframes give enough time to put into place process, procedures or technology to meet the proposed language? If you think an alternate timeframe is needed, please propose an alternate implementation plan and time period, and provide a detailed explanation of actions planned to meet the implementation deadline.	
Dennis Chastain - Tennessee Valley Authority - 1,3,5,6 - SERC	
Answer	No
Document Name	
Comment	
example – Project 2015-10). For newly corpursuant to MOD-025-3 R1 / Attachment 1 months later? For existing GO facilities that effective date and the R1 compliance date month window, otherwise the GO would file compliance date, existing facilities that were effective date and R1 compliance date, will	confusing as written. Perhaps a timeline could be added (see the implementation plan for TPL-001-5 as an immissioned GO facilities, we interpret the draft implementation plan to require verifications performed to begin on the effective date, but the evidence would not be subject to audit until the R1 effective date 24 at are subject to MOD-025-2, any facility that reaches its 66 month (or longer) anniversary date between the (a 24 month span) would need evidence that a MOD-025-3 R1 verification was completed during the 24 as self-report for any existing facility that this was not achieved for on the R1 compliance date? Upon the R1 e subject to MOD-025-2, and were not MOD-025-3 R1 verified within the 24 month span between the be subject to the 66 month from their last MOD-025-2 verification rule? Does this essentially provide a 90 on the effective date, with compliance enforcement kicking in at 24 months?
Likes 0	
Dislikes 0	
Response	
	Behalf of: Frank Lee, Pacific Gas and Electric Company, 3, 1, 5; Marco Rios, Pacific Gas and Electric as and Electric Company, 3, 1, 5; - Michael Johnson, Group Name PG&E All Segments
Answer	No
Document Name	
Comment	
PG&E supports the input provided by the E initial periodic requirements.	dison Electric Institute (EEI) on not supporting the modifications and the EEI input on the performance of
Likes 0	
Dislikes 0	
Response	
Patricia Lynch - NRG - NRG Energy, Inc.	-5

Answer	No	
Document Name		
Comment		
According to the Initial Performance of Periodic Requirements within the implementation plan, existing entities shall comply within 66 calendar months rom last performance for next test under V3. Additionally, if the timeframe for existing units to perform testing falls between the effective date of the standard and the compliance date, the applicable entity shall comply by the Compliance date. However, this is confusing as existing resources that have been tested close to the new effective date under Version 2 may exceed the 2 year compliance date for the next iteration of testing allowed (66 months). This is not clear. It would be better to start the compliance date unilaterally for existing and new applicable units under all requirements to avoid confusion. In this way, est results performed under the new requirements would also be properly reviewed by the Transmission Planner under R3 and R4.		
ikes 0		
Dislikes 0		
Response		
David Jendras Sr - Ameren - Ameren Ser	vices - 3	
Answer	No	
Oocument Name		
Comment		
We believe that agreement with the implementation plan is dependent on the clarification mentioned in the comment for R1 and R2.		
ikes 0		
Dislikes 0		
Response		
odd Bennett - Associated Electric Cooperative, Inc 3, Group Name AECI		
Answer	No	
Document Name		
Comment		
AECI is supportive of the comments provided by the NAGF.		
ikes 0		
Dislikes 0		

Response	
Alison MacKellar - Constellation - 5	
Answer	No
Document Name	
Comment	
obligations take effect whether it is at your paper appropriately to meet compliance with requ	
Alison Mackellar on behalf of Constellation	Segments 5 and 6
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA	հ - Not Applicable - NA - Not Applicable
Answer	No
Document Name	
Comment	
comply with these Requirements. However, have completed their verification testing and technical concern until after obligations und R4 until R1, R2 and R3 tests, submissions, same time (i.e., 3 years after approval of the	implementation plan. Requirements 1 and 2 provide GOs and TOs three years before they are obligated to the three is no meaningful work that a TP could do under Requirement R3 until the responsible GOs and TOs disubmittals under Requirement R1 and R2. Additionally, GOs and TOs will not receive any notifications of ler Requirement R1 and R2 are sent to the TP under Requirement R3, meaning no work can be done under and reviews are completed. For this reason, all Requirements in MOD-025-3 should become effective at the Reliability Standard). Relative to the Initial Performance of Periodic Requirements, EEI supports the plan ply with Requirements 1 and 2 within 66 calendar months of their last performance under the respective
Likes 0	
Dislikes 0	
Response	
Martin Sidor - NRG - NRG Energy, Inc 0	5
Answer	No
Document Name	

According to the Initial Performance of Periodic Requirements within the implementation plan, existing entities shall comply within 66 calendar months from last performance for next test under V3. Additionally, if the timeframe for existing units to perform testing falls between the effective date of the standard and the compliance date, the applicable entity shall comply by the Compliance date. However, this is confusing as existing resources that have been tested close to the new effective date under Version 2 may exceed the 2 year compliance date for the next iteration of testing allowed (66 months). This is not clear.	
	ate unilaterally for existing and new applicable units under all requirements to avoid confusion. In this way, ements would also be properly reviewed by the Transmission Planner under R3 and R4.
Likes 0	
Dislikes 0	
Response	
Israel Perez - Israel Perez On Behalf of: C Timothy Singh, Salt River Project, 3, 5, 1	Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; , 6; - Israel Perez
Answer	No
Document Name	
Comment	
The valid testing agencies are hard to schevendors and the TPs will be hard pressed to	dule as it is. If you mandate that all of the units are tested in a year, there will be backlog on the side of the because the backlog validations.
Likes 0	
Dislikes 0	
Response	
Micah Runner - Black Hills Corporation -	1
Answer	No
Document Name	
Comment	
Black Hills Corporation supports the NAGF	comments.
Likes 0	
Dislikes 0	
Response	

Comment

Sheila Suurmeier - Black Hills Corporation - 5	
Answer	No
Document Name	
Comment	
Black Hills Corporation supports the NAGF	comments.
Likes 0	
Dislikes 0	
Response	
Claudine Bates - Black Hills Corporation	1 - 6
Answer	No
Document Name	
Comment	
Black Hills Corporation supports the NAGF	comments.
Likes 0	
Dislikes 0	
Response	
Kimberly Turco - Constellation - 6	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Jamison Cawley - Nebraska Public Powe	er District - 1
Answer	No
Document Name	
Comment	
NPPD suggests the implementation be phased in a manner similar to the original implementation of MOD-025, so that not all units will be become compliant with the Standard at the same time. An enforcement date that includes 100% of applicable facilities could result in an tidal wave of work that may overwhelm entities.	
Likes 0	
Dislikes 0	
Response	
Steven Taddeucci - NiSource - Northern	Indiana Public Service Co 3
Answer	No
Document Name	
Comment	
	fter approval of the standard to perform real/reactive power engineering analysis of all units in scope is of R1 and R2 should be 60 months after the effective date considering the detailed analysis.
Likes 0	
Dislikes 0	
Response	
Alan Kloster - Alan Kloster On Behalf of: Jennifer Flandermeyer, Evergy, 3, 6, 5, 1; Jeremy Harris, Evergy, 3, 6, 5, 1; Kevin Frick, Evergy, 3, 6, 5, 1; Marcus Moor, Evergy, 3, 6, 5, 1; - Alan Kloster	
Answer	No
Document Name	
Comment	
Evergy supports and incorporates by reference the comemnts of the Edison Electric Institute (EEI) to questions #8.	
Likes 0	
Dislikes 0	
Response	

Srikanth Chennupati - Entergy - 1,3,5,6 -	SERC
Answer	No
Document Name	
Comment	
It should be phase in implementation	on either a 5-year implementation period or allow updates based upon current MOD-025 testing plans.
Likes 0	
Dislikes 0	
Response	
Casey Perry - PNM Resources - 1,3 - WE	cc
Answer	No
Document Name	
Comment	
PNM supports with EEI comments.	
Likes 0	
Dislikes 0	
Response	
Pamela Frazier - Southern Company - So	outhern Company Services, Inc 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern
Answer	No
Document Name	
Comment	
Per this implementation plan, a GO will have 2 years after approval of the standard to perform real/reactive power engineering analysis of all units in scope. We do not believe this is a sufficient window of time for such a large undertaking. Considering most standards requiring detailed analysis have a 5-year phase in period, we believe 5 years of phase-in should be the minimum time allotted.	
Likes 0	
Dislikes 0	
Response	

Daniela Atanasovski - APS - Arizona Public Service Co 1		
Answer	No	
Document Name		
Comment		
AZPS supports the following comments submitted by EEI on behalf of its members: EEI does not support the proposed staged implementation plan. Requirements 1 and 2 provide GOs and TOs three years before they are obligated to comply with these Requirements. However, there is no meaningful work that a TP could do under Requirement R3 until the responsible GOs and TOs have completed their verification testing and submittals under Requirement R1 and R2. Additionally, GOs and TOs will not receive any notifications of technical concern until after obligations under Requirement R1 and R2 are sent to the TP under Requirement R3, meaning no work can be done under		
same time (i.e., 3 years after approval of the	and reviews are completed. For this reason, all Requirements in MOD-025-3 should become effective at the e Reliability Standard). Relative to the Initial Performance of Periodic Requirements, EEI supports the plan oly with Requirements 1 and 2 within 66 calendar months of their last performance under the respective	
Likes 0		
Dislikes 0		
Response		
Wayne Sipperly - North American Genera	ator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF	
Answer	No	
Document Name		
Comment		
Per the proposed MOD-025-3 implementation plan, the NAGF notes that a GO will have 2 years after approval of the standard to perform real/reactive power engineering analysis of all its units in scope. We do not believe this is a sufficient window of time for such a large undertaking. Considering most standards requiring detailed analysis have a 5-year phase in period, we believe 5 years of phase-in should be the minimum time allotted. In addition, the NAGF recommends that an example timeline be included given the different timeframes identified in the proposed MOD-025-3 implementation plan.		
Likes 1	LaKenya Vannorman, N/A, Vannorman LaKenya	
Dislikes 0		
Response	Response	
Rajesh Geevarghese - Rajesh Geevarghe	ese On Behalf of: Kinte Whitehead, Exelon, 1, 3; - Rajesh Geevarghese	
Answer	No	
Document Name		

Comment	
Exelon concurs with the comments submitte	ed by the EEI.
Likes 0	
Dislikes 0	
Response	
Andy Thomas - Duke Energy - 1,3,5,6 - S	ERC,RF
Answer	No
Document Name	
Comment	
and procedures, and perform the recomme	ovide GOs sufficient time for such an enormous effort. The time required to review, modify existing processes inded analyses for all units in scope will require a longer phase-in. Duke Energy recommends a 2-year rements R3 and R4, with an additional 3 years (5 years total) for compliance with Requirements R1 and R2.
Likes 0	
Dislikes 0	
Response	
Daniel Gacek - Exelon - 1	
Answer	No
Document Name	
Comment	
Exelon concurs with the comments submitte	ed by the EEI.
Likes 0	
Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy C	corporation - 4, Group Name FE Voter
Answer	No
Document Name	
Comment	

FirstEnergy recommends coordinating the Implementation of R3 and R4 with R1 and R2's implementation and further suggest a 24-month implementation to ensure sufficient time for the GO and/or the TO to verify the data needed under this standard.	
Likes 0	
Dislikes 0	
Response	
Donald Lock - Talen Generation, LLC - 5	
Answer	No
Document Name	
Comment	
Talen supports the comments of the NAGF	
Likes 0	
Dislikes 0	
Response	
Christine Kane - WEC Energy Group, Inc	3, Group Name WEC Energy Group
Answer	No
Document Name	
Comment	
WEC Energy Group supports the NAGF an	d EEI comments.
Likes 0	
Dislikes 0	
Response	
Junji Yamaguchi - Hydro-Quebec (HQ) -	5
Answer	Yes
Document Name	
Comment	
We support RSC comments	

Likes 0	
Dislikes 0	
Response	
Deanna Carlson - Cowlitz County PUD - 5	
Answer	Yes
Document Name	
Comment	
Deanna Carlson, Cowlitz County PUD No.	1, 5, 6/7/2023
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	
Charles Yeung - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC, Group Name SRC 2023	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Ruchi Shah - AES - AES Corporation - 5	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jodirah Green - ACES Power Marketing	- 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
	If of: Dennis Sismaet, Northern California Power Agency, 4, 6, 3, 5; Jeremy Lawson, Northern
California Power Agency, 4, 6, 3, 5; Mart	y Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns
California Power Agency, 4, 6, 3, 5; Mart Answer	
	y Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns
Answer	y Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns
Answer Document Name	y Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns
Answer Document Name	y Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns
Answer Document Name Comment	y Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns
Answer Document Name Comment Likes 0	y Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns
Answer Document Name Comment Likes 0 Dislikes 0	y Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns
Answer Document Name Comment Likes 0 Dislikes 0 Response Tim Kelley - Tim Kelley On Behalf of: Ch Utility District, 3, 6, 4, 1, 5; Kevin Smith,	y Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns
Answer Document Name Comment Likes 0 Dislikes 0 Response Tim Kelley - Tim Kelley On Behalf of: Ch Utility District, 3, 6, 4, 1, 5; Kevin Smith, 6, 4, 1, 5; Pedro Juarez, Sacramento Muri	Yes 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, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung

Comment	
Likes 0	
Dislikes 0	
Response	
Mohamed Derbas - Sempra - San Diego Gas and Electric - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Daniela Hammons - CenterPoint Energy	Houston Electric, LLC - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Hillary Creurer - Hillary Creurer On Behalf of: Lori Frisk, Allete - Minnesota Power, Inc., 1; - Hillary Creurer	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Jennifer Bray - Arizona Electric Power	er Cooperative, Inc 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Joshua London - Eversource Energy	v - 1, Group Name Eversource
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Andy Fuhrman - Andy Fuhrman On E	Behalf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Harishkumar Subramani Vijay Kuma	r - Independent Electricity System Operator - 2
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Stephen Stafford - Georgia Transmissior	Corporation - NA - Not Applicable - SERC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Natalie Johnson - Enel Green Power - 5	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Anna Todd - Southern Indiana Gas and E	lectric Co 1,3,5,6 - RF
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Adrian Raducea - DTE Energy - Detroit Edison Company - 5, Group Name DTE Energy - DTE Electric		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
George E Brown - Pattern Operators LP	- 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Donna Wood - Tri-State G and T Associa	tion, Inc 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Dave Krueger - SERC Reliability Corporation - 10		
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	
Stephen Whaite - Stephen Whaite On Be Body Member and Proxies	half of: Lindsey Mannion, ReliabilityFirst , 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot
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	

Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kevin Conway - Public Utility District No	. 1 of Pend Oreille County - 3 - WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Nazra Gladu - Manitoba Hydro - 1		
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		
Jennie Wike - Jennie Wike On Behalf of: Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Wendy Kalidass - U.S. Bureau of Reclama	ation - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thomas Foltz - AEP - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer	
Document Name	
Comment	
ITC - no Comment From response received	from Standard Owners or SMEs
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity Co	ordinating Council - 10, Group Name WECC
Answer	
Document Name	
Comment	
No Comment	
Likes 0	
Dislikes 0	
Response	

9. Do you agree the language proposed in PRC-019-3 Requirement R1? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.		
Thomas Foltz - AEP - 5		
Answer	No	
Document Name		
Comment		
"Protective functions" would likely include embedded systems which infers an understanding of the decision trees and logical operators of every device in scope. This level of understanding may only be fully grasped by the manufacturers themselves, and may also include proprietary information that the OEMs may not wish to share. This puts the TO and GO at risk for having an understanding of the underlying logic that may be fully grasped or known only by the manufacturers themselves, and obtaining this information from the OEM has already proven to be very difficult in practice. AEP disagrees with the removal of "or stability limits" from R1.1.2., which seems to be driven from the text within the SAR which states "Manual SSSL"		
that the SSSL is always outside the thermal	AVR is in manual operation mode" which we disagree with as well. *The author seems to incorrectly assume capability curve, which is not correct.*	
Regarding the SDT's response in their previous consideration of comments document, where they state "The SDT believes that the scope for coordination requirements are limited to the functions and capabilities described in the standard or in industry guidance within Section E." AEP believes that care should be taken to ensure that all scope, function and capability limitations are clearly provided within the standard itself, and that no important content is perhaps provided only within the external "associated documents" of Section E.		
Likes 0		
Dislikes 0		
Response		
Christine Kane - WEC Energy Group, Inc 3, Group Name WEC Energy Group		
Answer	No	
Document Name		
Comment		
WEC Energy Group supports the MRO NSRF and the NAGF comments.		
Likes 0		
Dislikes 0		
Response		
Nazra Gladu - Manitoba Hydro - 1		
Answer	No	

Document Name			
Comment			
Manitoba Hydro agrees with the removal of stability limits however, MH recommends further wording changes for R1 and to remove "equipment capabilities "as a requirement of the control and protection coordination.			
Manitoba Hydro agrees with that a coordination of control and protection elements should take place if equipment capabilities change and should be lotted (if known) as part of Attachment 1; however, the standard should focus on control and protection coordination.			
Manitoba Hydro would also like to have the standard reflect how to handle instances when the equipment capabilities are not known, such as volts per ertz limitations for older generators? Clear definitions and operating ranges need to be provided for equipment capabilities in Appendix A.			
Manitoba Hydro grees with the removal of the	Manitoba Hydro grees with the removal of the 5/6 year window and the removal of the steady state limit.		
manitoba Hydro has no issues with going back to the original use of "Protection System" which will include protection functions that reside in control devices.			
Likes 0			
Dislikes 0			
Response			
Donald Lock - Talen Generation, LLC - 5			
Answer	No		
Document Name			
Comment			
Talen supports the comments of the NAGF.			
Likes 0			
Dislikes 0			
Response			
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter			
Answer	No		
Document Name			
Comment			
While we support EEI's comments, FirstEneunits.	ergy also request clarification on if the coordination for Requirement 1 would be required of individual IBR		
Likes 0			

Dislikes 0		
Response		
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC		
Answer	No	
Document Name		
Comment		
WECC has concerns with footnotes containing the word "shall." This language should be reserved for Requirements. WECC also believes it is unwise to use the IEEE definition of IBR resourse. There are references in the definition that provide exemptions. IBR Resourse depends on the IEEE definition of "IBR Unit" which depends on the capability and performance of "type testing" the device. This complex linkage of definitions in the IEEE standard could have the potential of removing inverters that are not type tested or satisfactorily type tested from applicability of the standard. WECC encourages the SDT and NERC to work on clearly defining what is meant by IBR resource as used in the standard.		
Likes 0		
Dislikes 0		
Response		
Dave Krueger - SERC Reliability Corpora	tion - 10	
Answer	No	
Document Name		
Comment		
On behalf of the SERC Generator Working Group: the standard should not mix control and protection coordination. Control functions in power plant controllers and IBR units are often proprietary and not always easily obtainable. The term "control functions" may be to broad of an expression that may leave companies falling out of compliance for subjective reasons. Suggest wording to be changed to "if any limiters are programmed in these control devices, the equipment should be limited before it trips"		
always easiliy obtainable. The term "contro subjective reasons. Suggest wording to be	tection coordination. Control functions in power plant controllers and IBR units are often proprietary and not I functions" may be to broad of an expression that may leave companies falling out of compliance for	
always easiliy obtainable. The term "contro subjective reasons. Suggest wording to be	tection coordination. Control functions in power plant controllers and IBR units are often proprietary and not I functions" may be to broad of an expression that may leave companies falling out of compliance for	
always easiliy obtainable. The term "contro subjective reasons. Suggest wording to be it trips"	tection coordination. Control functions in power plant controllers and IBR units are often proprietary and not I functions" may be to broad of an expression that may leave companies falling out of compliance for changed to "if any limiters are programmed in these control devices, the equipment should be limited before	
always easiliy obtainable. The term "control subjective reasons. Suggest wording to be it trips" Likes 1	tection coordination. Control functions in power plant controllers and IBR units are often proprietary and not I functions" may be to broad of an expression that may leave companies falling out of compliance for changed to "if any limiters are programmed in these control devices, the equipment should be limited before	
always easiliy obtainable. The term "control subjective reasons. Suggest wording to be it trips" Likes 1 Dislikes 0	tection coordination. Control functions in power plant controllers and IBR units are often proprietary and not I functions" may be to broad of an expression that may leave companies falling out of compliance for changed to "if any limiters are programmed in these control devices, the equipment should be limited before	
always easiliy obtainable. The term "control subjective reasons. Suggest wording to be it trips" Likes 1 Dislikes 0	tection coordination. Control functions in power plant controllers and IBR units are often proprietary and not I functions" may be to broad of an expression that may leave companies falling out of compliance for changed to "if any limiters are programmed in these control devices, the equipment should be limited before LaKenya Vannorman, N/A, Vannorman LaKenya	
always easiliy obtainable. The term "control subjective reasons. Suggest wording to be it trips" Likes 1 Dislikes 0 Response	tection coordination. Control functions in power plant controllers and IBR units are often proprietary and not I functions" may be to broad of an expression that may leave companies falling out of compliance for changed to "if any limiters are programmed in these control devices, the equipment should be limited before LaKenya Vannorman, N/A, Vannorman LaKenya	

Comment		
Pattern Energy supports Midwest Reliability Organization's NERC Standards Review Forum's (MRO NSRF) comments.		
Likes 0		
Dislikes 0		
Response		
Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF		
Answer	No	
Document Name		
Comment		

The MRO NSRF does not agree with Requirement R1 language, which is defined in §4. Applicability of the proposed standard.

§4.2.4 Inverter-based resource (IBR) generating plant/Facility greater than 75

MVA (gross nameplate rating) including:

- **4.2.4.1** Individual IBR units;
- 4.2.4.2 Collector bus(es) and collector feeder(s);
- **4.2.4.3** Static or dynamic reactive compensating devices;
- 4.2.4.4 Main power transformer (MPT);1
- 4.2.4.5 Generator step-up (GSU) transformer(s);2

Inverter-based resource (IBR) is not a defined term. Using undefined terms that are subject to interpretation is not an acceptable practice in a 'zero-defect' enforcement environment. For example, on March 28, 2023, NERC released a recap of technical session's Inverter-Based Resource Panel. In this panel's Quick Reference Guide (https://www.nerc.com/pa/Documents/IBR Quick%20Reference%20Guide.pdf) a definition is outlined for IBR as follows:

In most cases, inverter-based generating resources refer to Type 3 and Type 4 wind power plants and solar photovoltaic (PV) resources. Battery energy storage is also considered an inverter-based resource. Many transmission-connected reactive devices, such as STATCOMs and SVCs, are also inverter-based. Similarly, HVDC circuits also interface with the ac network though converters. Inverter-based resources are being interconnected at the bulk power system (BPS) level as well as at the distribution level; however, this reference guide focuses specifically on BPS-connected inverter-based resource efforts.

f a responsible entity were to define IBR us SDT?	ing the aforementioned definition and exclude Type I & II wind turbine generators is this the intention of the
	es that IBR unit is defined by IEEE Std. 2800. It is not acceptable to define a term using an external source ocedure. Second, IEEE Std. 2800 is not a public document.
functions in power plant controllers are ofter	he term "control functions". This standard should not mix control and protection "coordination." Control in proprietary and not always obtainable. Furthermore, the term "control functions" is a broad expression that to for compliance on a subjective basis. Wording should be revised that if any limiters are programmed in a limit before it trips.
are not limited to those listed in Attachment 1." The MRO NSRF disagrees nterpretation by both responsible entities ar	with "include, but are not limited to those listed in Attachment 1" language as it is open ended and subject to deforcement authorities. The MRO NSRF suggests the language is changed to "Equipment capabilities, are those listed in Attachment 1."
control functions, and protective functions ic	or the applicable Facilities are those listed in Attachment 1."
Likes 2	Lincoln Electric System, 5, Millard Brittany; Wike Jennie On Behalf of: Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merre
Dislikes 0	
Response	
Wayne Sipperly - North American Genera	ator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF
Answer	No
Document Name	
Comment	
(PPC) and Inverter-Based Resources (IBR) proad expression that will leave GOs/TOs s	1 & 1.2.2 should not mix control and protection "coordination." Control functions in Power Plant Controllers units are often proprietary and not always easily obtainable. Furthermore, the term "control functions" is a usceptible to falling out of compliance on a subjective basis. Recommend that the wording be revised such a control devices, the equipment should limit before it trips."
Likes 0	
Dislikes 0	
Response	

Daniela Atanasovski - APS - Arizona Public Service Co 1		
Answer	No	
Document Name		
Comment		
AZPS supports the following comments sub	omitted by EEI on behalf of its members:	
Comments: EEI does not support the proposed language in PRC-019-3, Requirement R1 because the last sentence in Requirement R1 is open ended and without limits and needs to be removed. (i.e., "but are not limited to those listed in Attachment 1") Such a statement does not conform to a NERC Results Based Reliability Standard. To address this concern, we ask the SDT to remove this language. (See below)		
R1. Each Generator Owner and Transmission Owner with applicable Facilities Shall Coordinate the voltage and regulating system controls with the applicable equipment capabilities and settings of the applicable Protection System devices and functions. Equipment capabilities, control functions, and protection functions for the applicable Facilities include, but are not limited to those listed in Attachment 1 .		
We are also concerned that the language contained in parts 1.2.1 & 1.2.2, where control and protection is intermingled, creates ambiguity for entities regarding what is exactly intended. We are also concerned that this Reliability Standard inappropriately mixes control and protection "coordination." Control functions in Power Plant Controllers and IBR units are often proprietary and not always easily obtainable by protection engineers. We further note that the term "control functions" is a broad expression that will leave GOs/TOs susceptible to falling out of compliance on a subjective basis. For this reason, we ask the SDT to develop a definition for control functions to address this concern either within PRC-019 or more broadly within the NERC Glossary of Terms.		
Consideration should also be given to revision control devices, the equipment should limit	ing language within R1 (parts 1.2.1 & 1.2.2) to make it clear that if any limiters are programmed in these before it trips.	
Likes 0		
Dislikes 0		
Response		
Natalie Johnson - Enel Green Power - 5		
Answer	No	
Document Name		
Comment		
Enel supports comments made by the MRC	NSRF.	
Likes 0		
Dislikes 0		
Response		
Pamela Frazier - Southern Company - So Company	outhern Company Services, Inc 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern	

Answer	No	
Document Name		
Comment		
Section B, R1 1.2.1 & 1.2.2: This standard should not mix control and protection "coordination." Control functions in Power Plant Controllers and IBR units are often proprietary and not always easily obtainable. Furthermore, the term "control functions" is a broad expression that will leave GOs/TOs susceptible to falling out of compliance on a subjective basis. Wording should be revised that if any limiters are programmed in these control devices, the equipment should limit before it trips.		
Likes 0		
Dislikes 0		
Response		
Srikanth Chennupati - Entergy - 1,3,5,6 -	SERC	
Answer	No	
Document Name		
Comment		
None		
Likes 0		
Dislikes 0		
Response		
Andy Fuhrman - Andy Fuhrman On Beha	ılf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman	
Answer	No	
Document Name		
Comment		
MPC supports MRO NERC Standards Review Forum comments.		
Likes 0		
Dislikes 0		
Response		

Alan Kloster - Alan Kloster On Behalf of: Jennifer Flandermeyer, Evergy, 3, 6, 5, 1; Jeremy Harris, Evergy, 3, 6, 5, 1; Kevin Frick, Evergy, 3, 6, 5, 1; Marcus Moor, Evergy, 3, 6, 5, 1; - Alan Kloster	
Answer	No
Document Name	
Comment	
Evergy supports and incorporates by refere	ence the comemnts of the Edison Electric Institute (EEI) to questions #9.
Likes 0	
Dislikes 0	
Response	
Jamison Cawley - Nebraska Public Powe	er District - 1
Answer	No
Document Name	
Comment	
NPPD supports comments submitted by MI	RO NSRF.
Likes 0	
Dislikes 0	
Response	
Kimberly Turco - Constellation - 6	
Answer	No
Document Name	
Comment	
	f protective function as it is not a defined term, this could inadvertently expand the scope of PRC-019. Attachment 1 but suggests a definition should be made. Constellation further agrees with NAGF comments on Segments 5 and 6
Likes 0	
Dislikes 0	

Response		
Hillary Creurer - Hillary Creurer On Beha	lf of: Lori Frisk, Allete - Minnesota Power, Inc., 1; - Hillary Creurer	
Answer	No	
Document Name		
Comment		
Minnesota Power supports MRO's NERC Standards Review Forum (NSRF) comments		
Likes 0		
Dislikes 0		
Response		
Claudine Bates - Black Hills Corporation	- 6	
Answer	No	
Document Name		
Comment		
Black Hills Corporation supports the NAGF comments.		
Likes 0		
Dislikes 0		
Response		
Sheila Suurmeier - Black Hills Corporation - 5		
Answer	No	
Document Name		
Comment		
Black Hills Corporation supports NAGF comments.		
Likes 0		
Dislikes 0		
Response		

Micah Runner - Black Hills Corporation - 1		
Answer	No	
Document Name		
Comment		
Black Hills Corporation supports the NAGF	comments.	
Likes 0		
Dislikes 0		
Response		
Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez		
Answer	No	
Document Name		
Comment		
SRP prefers IBR's have their own set of standards versus incorporating them into current standards.		
Likes 0		
Dislikes 0		
Response		
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable		
Answer	No	
Document Name		
Comment		
EEI does not support the proposed language	ie in PRC-019-3. Requirement R1 because the last sentence in Requirement R1 is open ended and without	

EEI does not support the proposed language in PRC-019-3, Requirement R1 because the last sentence in Requirement R1 is open ended and without limits and needs to be removed. (i.e., "but are not limited to those listed in Attachment 1") Such a statement does not conform to a NERC Results Based Reliability Standard. To address this concern, we ask the SDT to remove this language. (See below)

R1. Each Generator Owner and Transmission Owner with applicable Facilities Shall Coordinate the voltage and regulating system controls with the applicable equipment capabilities and settings of the applicable Protection System devices and functions. Equipment capabilities, control functions, and protection functions for the applicable Facilities include:

The language contained in parts 1.2.1 & 1.2.2, where control and protection is intermingled, creates ambiguity for entities regarding what is exactly intended. Also this Reliability Standard inappropriately mixes control and protection "coordination." Control functions in Power Plant Controllers and IBR units are often proprietary and not always easily obtainable by protection engineers. Additionally, the term "control functions" is a broad expression that will leave GOs/TOs susceptible to falling out of compliance on a subjective basis. For this reason, the SDT should develop a definition for control

functions to address this concern either within PRC-019 or more broadly within the NERC Glossary of Terms.	
Consideration should also be given to re control devices, the equipment should lir	vising language within R1 (parts 1.2.1 & 1.2.2) to make it clear that if any limiters are programmed in these nit before it trips.
Likes 0	
Dislikes 0	
Response	
Alison MacKellar - Constellation - 5	
Answer	No
Document Name	
Comment	
coordination requirements. Alison Mackellar on behalf of Constellation Likes 0	on Segments 5 and 6
Dislikes 0	
Response	
Todd Bennett - Associated Electric Co	poperative, Inc 3, Group Name AECI
Answer	No
Document Name	
Comment	
AECI is supportive of the comments prov	vided by the NAGF.
Likes 0	
Dislikes 0	
Response	
David Jendras Sr - Ameren - Ameren	Services - 3

Answer	No	
Document Name		
Comment		
Rather than using Footnote 6, Ameren suggests creating a NERC defined term of inverter-based resources. The definition should also be included in the standard. Please clarify Section 1.2 and what should be done if voltage control mode is not used. Ameren also has concern with the phrase "but are not limited to those listed in attachment 1" because an IBR manufacturer may have a control function that acts like a limiter but they will say no when asked if they have a limiter.		
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; Pedro Juarez, 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 / BANC		
Answer	No	
Document Name		
Comment		
SMUD and BANC disagree with the language proposed in PRC-019-3 Requirement R1 because the term Inverter-based Resource (IBR) is not adequately defined. The Standards Drafting Team (SDT) should create a formal definition and not attempt to define it in the Applicability section. The reference to IEEE Std. 2800 in footnote 6 to define an "IBR unit" should also be avoided as IEEE Standards are not free to registered entities and could be changed by the IEEE at any time, outside of the NERC Standards development process. NERC Project 2022-02 is creating a formal definition for Distributed Energy Resource (DER), so it makes sense that the term IBR also be defined. In addition, footnotes in standards should not be used to include part of the requirement to meet compliance. Specifically in Requirement R1: "Each Generator Owner and Transmission Owner with applicable Facilities shall coordinate[3] the voltage regulating system controls," and footnote 3 in R1: "Protection System as-left settings shall be utilized in compliance evidence for a protection and control coordination study." If something shall be		
used for compliance evidence, it should be in the main body of the Standard Requirement and not hidden in the footnotes.		
Likes 0		
Dislikes 0		
Response		
Patricia Lynch - NRG - NRG Energy, Inc.	- 5	
Answer	No	
Document Name		
Comment		

Revise 1.1.2. wording to the following: "The applicable in-service protective functions are set to operate to isolate or de-energize equipment to prevent damage or limit the extent of damage when operating conditions exceed equipment capabilities."		
Likes 0		
Dislikes 0		
Response		
Ruchi Shah - AES - AES Corporation - 5		
Answer	No	
Document Name		
Comment		
Coordination should be more specifically defined so that entities are able to achieve what the SDT is looking for. It is unclear what the SDT is expecting for coordination between the control functions and protective functions, as well as considering how the protective functions monitor different physical locations within a plant. Documentation on how to perform the coordination and what is expected must be developed in the industry before it is reasonable to expect entities to comply. Presently, this documentation does not exist.		
Likes 0		
Dislikes 0		
Response		
Response		
Daniel Gacek - Exelon - 1		
	Yes	
Daniel Gacek - Exelon - 1	Yes	
Daniel Gacek - Exelon - 1 Answer	Yes	
Daniel Gacek - Exelon - 1 Answer Document Name		
Daniel Gacek - Exelon - 1 Answer Document Name Comment		
Daniel Gacek - Exelon - 1 Answer Document Name Comment Exelon concurs with the comments submitt		
Daniel Gacek - Exelon - 1 Answer Document Name Comment Exelon concurs with the comments submitt Likes 0		
Daniel Gacek - Exelon - 1 Answer Document Name Comment Exelon concurs with the comments submitt Likes 0 Dislikes 0		
Daniel Gacek - Exelon - 1 Answer Document Name Comment Exelon concurs with the comments submitt Likes 0 Dislikes 0	ed by the EEI.	
Daniel Gacek - Exelon - 1 Answer Document Name Comment Exelon concurs with the comments submitt Likes 0 Dislikes 0 Response	ed by the EEI.	
Daniel Gacek - Exelon - 1 Answer Document Name Comment Exelon concurs with the comments submitt Likes 0 Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - S	ed by the EEI. ERC,RF	

None.		
Likes 0		
Dislikes 0		
Response		
Rajesh Geevarghese - Rajesh Geevarghe	ese On Behalf of: Kinte Whitehead, Exelon, 1, 3; - Rajesh Geevarghese	
Answer	Yes	
Document Name		
Comment		
Exelon concurs with the comments submitte	ed by the EEI.	
Likes 0		
Dislikes 0		
Response		
Deanna Carlson - Cowlitz County PUD -	5	
Answer	Yes	
Document Name		
Comment		
Deanna Carlson, Cowlitz County PUD No. 1, 5, 6/7/2023		
Likes 0		
Dislikes 0		
Response		
Casey Perry - PNM Resources - 1,3 - WECC		
Answer	Yes	
Document Name		
Comment		
PNM supports the changes proposed in PR	C-019-3, Requirement R1.	

Likes 0	
Dislikes 0	
Response	
Junji Yamaguchi - Hydro-Quebec (HQ) -	5
Answer	Yes
Document Name	
Comment	
We support RSC comments	
Likes 0	
Dislikes 0	
Response	
	Behalf of: Frank Lee, Pacific Gas and Electric Company, 3, 1, 5; Marco Rios, Pacific Gas and Electric as and Electric Company, 3, 1, 5; - Michael Johnson, Group Name PG&E All Segments
Answer	Yes
Document Name	
Comment	
	Electric Institute (EEI) related to the open ended structure of Requirement R1 and the concerns related to ation to create a definition for control functions.
Likes 0	
Dislikes 0	
Response	
Wendy Kalidass - U.S. Bureau of Reclamation - 5	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Jennie Wike - Jennie Wike On Behalf of (Tacoma, WA), 1, 4, 5, 6, 3; Terry Gifford	: Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities I, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Chris Wagner - Santee Cooper - 1, Grou	p Name Santee Cooper
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kevin Conway - Public Utility District No	o. 1 of Pend Oreille County - 3 - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC	
Answer	Yes

Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro		
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		
Stephen Whaite - Stephen Whaite On Behalf of: Lindsey Mannion, ReliabilityFirst , 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot Body Member and Proxies		
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		
Donna Wood - Tri-State G and T Associa	tion, Inc 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Adrian Raducea - DTE Energy - Detroit E	dison Company - 5, Group Name DTE Energy - DTE Electric	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Anna Todd - Southern Indiana Gas and Electric Co 1,3,5,6 - RF		
Answer	Yes	

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Stephen Stafford - Georgia Transmission	n Corporation - NA - Not Applicable - SERC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Harishkumar Subramani Vijay Kumar - Ir	ndependent Electricity System Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Joshua London - Eversource Energy - 1, Group Name Eversource	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response		
Jennifer Bray - Arizona Electric Power Cooperative, Inc 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Steven Taddeucci - NiSource - Northern Indiana Public Service Co 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Daniela Hammons - CenterPoint Energy	Houston Electric, LLC - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Martin Sidor - NRG - NRG Energy, Inc		
Answer	Yes	
Document Name		

Comment	
Likes 0	
Dislikes 0	
Response	
Mohamed Derbas - Sempra - San Diego	Gas and Electric - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
	If of: Dennis Sismaet, Northern California Power Agency, 4, 6, 3, 5; Jeremy Lawson, Northern y Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jodirah Green - ACES Power Marketing	- 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response		
Dennis Chastain - Tennessee Valley Authority - 1,3,5,6 - SERC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Charles Yeung - Southwest Power Pool,	Inc. (RTO) - 2 - MRO,WECC, Group Name SRC 2023	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kennedy Meier - Electric Reliability Council of Texas, Inc 2		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Gail Elliott - Gail Elliott On Behalf of: Mid	chael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer		
Document Name		

Comment	
ITC - no Comment From response received from Standard Owners or SMEs	
Likes 0	
Dislikes 0	
Response	

10. Do you agree the language proposed appropriate, technical or procedural just	l in PRC-019-3 Requirement R2? If you do not agree, please provide your recommendation and, if ification.
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	
Charles Yeung - Southwest Power Pool,	Inc. (RTO) - 2 - MRO,WECC, Group Name SRC 2023
Answer	No
Document Name	
Comment	
	Draft 1, the associated coordination documentation should be updated <i>prior</i> to a return to service, <i>not</i> seems impossible to make coordinated changes prior to implementation of systems without appropriate
Likes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Autl	hority - 1,3,5,6 - SERC
Answer	No
Document Name	
Comment	
	R2 – "Within 90 calendar days following the identification or implementation of systems, equipment or setting . Not allowing an entity to correct "identified" miscoordination or errors significantly increases non-compliance

What is the purpose of the 90-day limit after return-to-service (RTS) to update associated coordination documentation? Per the Technical Rationale "this 90 calendar day period allows time for documentation to be updated for minor discrepancies in firmware, settings or equipment changes that do not

risk.

result in a miscoordination" but "entities are still required to perform a coordination study in accordance with R1 prior to the implementation of these changes." If a PRC-019 coordination study is still required, what difference does it make whether the updates are performed within the 90 calendar days after RTS or beyond that timeframe? Or is this 90-day limit actually a 90-day allowance to correct as-left vs. as-studied discrepancies post-implementation? If so, please make this distinction clear since Requirement R2 seems to suggest that there is a 90-day limit to make any setting changes.		
Likes 0		
Dislikes 0		
Response		
Jodirah Green - ACES Power Marketing	- 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	No	
Document Name		
Comment		
How will entities verify that changes will NOT affect the coordination? While the intent of this language identified in the April 2023 PRC-019-3 Technical Rationale document is laudable, the current verbiage seems to require that the GO/TO "prove the negative". We suggest modifying the language in R2 as follows: "Each Generator Owner and Transmission Owner shall review the coordination described in Requirement R1 prior to implementation of systems, equipment, or settings changes that could affect the coordination described in Requirement R1. If changes are identified that will affect the coordination described in Requirement R1, each Generator Owner and Transmission Owner shall perform the coordination described in Requirement R1 prior to implementation." While this proposed modification may seem minor on the surface, we believe that it allows greater flexibility for the entity when reviewing changes that may impact coordination while also meeting the stated intent of the SDT. In other words, we believe that the current verbiage necessitates that the entity attempt to "prove the negative" by generating evidence "that a particular change made to systems, equipment, or settings will not affect the coordination". Whereas we believe that the verbiage we proposed will only require evidence that the entity perform a coordination study whenever an impact to coordination is identified.		
Likes 0		
Dislikes 0		
Response		
	Behalf of: Frank Lee, Pacific Gas and Electric Company, 3, 1, 5; Marco Rios, Pacific Gas and Electric as and Electric Company, 3, 1, 5; - Michael Johnson, Group Name PG&E All Segments	
Answer	No	
Document Name		
Comment		

: PG&E is in agreement with the input from the Edison Electric Institute (EEI) that the Requirement R2 language is opened ended and their suggest modifications to address this.		
Likes 0		
Dislikes 0		
Response		
Todd Bennett - Associated Electric Coop	perative, Inc 3, Group Name AECI	
Answer	No	
Document Name		
Comment		
AECI is supportive of the comments provide	ed by the NAGF.	
Likes 0		
Dislikes 0		
Response		
Alison MacKellar - Constellation - 5		
Answer	No	
Document Name		
Comment		
Constellation does not agree with the expanded scope as it will essentially double the work as the Generator Owner will now need to perform a coordination study prior to syncing to grid and then perform a second coordination study following commissioning testing (following tuning). It is impractical to install or reprogram a relay or AVR, identify the as-left settings, then wait a month or two before restarting the unit to have a contractor reperform or update the PRC-019 study. PRC-019 should provide latitude for the coordination study based on analysis of intended settings, then allow for issuance of a revised report within 90 days of implementation if there are any deviations between intended and as-left settings identified.		
Alison Mackellar on behalf of Constellation	Segments 5 and 6	
Likes 0		
Dislikes 0		
Response		
Mark Gray - Edison Electric Institute - NA		
Answer	No	

Document Name		
Comment		
EEI does not support the current open ended language (i.e., "but are not limited to those listed below") used in Requirement R2. Additionally, the language in Requirement R2 should be clearer as to when a new coordination study is required. For this reason, we offer the following proposed changes to Requirement R2 (see bold face changes): R2. Each Generator Owner and Transmission Owner shall perform the coordination described in Requirement R1, for an aggregate Facility		
nameplate capability change of 10 % or more, prior to implementation of systems, equipment, or settings changes when such changes have a direct impact on the existing coordination as described in Requirement R1. Associated coordination documentation shall be updated within 90 calendar days after the return to in-service date. These possible systems, equipment, or settings changes include the following: [Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]		
Likes 0		
Dislikes 0		
Response		
Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez		
Answer	No	
Document Name		
Comment		
SRP prefers IBR's have their own set of sta	ndards versus incorporating them into current standards.	
Likes 0		
Dislikes 0		
Response		
Micah Runner - Black Hills Corporation -	1	
Answer	No	
Document Name		
Comment		
Black Hills Corporation supports the NAGF comments.		
Likes 0		
Dislikes 0		

Response		
Sheila Suurmeier - Black Hills Corporation	on - 5	
Answer	No	
Document Name		
Comment		
Black Hills Corporation supports the NAGF	comments.	
Likes 0		
Dislikes 0		
Response		
Claudine Bates - Black Hills Corporation	- 6	
Answer	No	
Document Name		
Comment		
Black Hills Corporation supports the NAGF	comments.	
Likes 0		
Dislikes 0		
Response		
Hillary Creurer - Hillary Creurer On Beha	lf of: Lori Frisk, Allete - Minnesota Power, Inc., 1; - Hillary Creurer	
Answer	No	
Document Name		
Comment		
Minnesota Power supports MRO's NERC Standards Review Forum (NSRF) comments		
Likes 0		
Dislikes 0		
Response		

Kimberly Turco - Constellation - 6	
Answer	No
Document Name	
Comment	
coordination study prior to syncing to grid a impractical to install or reprogram a relay or perform or update the PRC-019 study. PRC	nded scope as it will essentially double the work as the Generator Owner will now need to perform a nd then perform a second coordination study following commissioning testing (following tuning). It is r AVR, identify the as-left settings, then wait a month or two before restarting the unit to have a contractor re-C-019 should provide latitude for the coordination study based on analysis of intended settings, then allow for of implementation if there are any deviations between intended and as-left settings identified.
Kimberly Turco on behalf of Constellation S	Segments 5 and 6
Likes 0	
Dislikes 0	
Response	
Jamison Cawley - Nebraska Public Powe	er District - 1
Answer	No
Document Name	
Comment	
NPPD supports comments submitted by MR	RO NSRF.
Likes 0	
Dislikes 0	
Response	
Steven Taddeucci - NiSource - Northern	Indiana Public Service Co 3
Answer	No
Document Name	
Comment	
The inclusion of WDD with control control	manuage as actions about the most and HDD manageting Facility paying plant controller firm the second secon

The inclusion of "IBR unit control system firmware or settings changes" and "IBR generating Facility power plant controller firmware or settings changes" will possibly require information only known by the manufacturer. NIPSCO recommends 180 calendar days instead of 90 calendar days be allowed to obtain this information.

Likes 0		
Dislikes 0		
Response		
Alan Kloster - Alan Kloster On Behalf of: 5, 1; Marcus Moor, Evergy, 3, 6, 5, 1; - Ala	Jennifer Flandermeyer, Evergy, 3, 6, 5, 1; Jeremy Harris, Evergy, 3, 6, 5, 1; Kevin Frick, Evergy, 3, 6, an Kloster	
Answer	No	
Document Name		
Comment		
Evergy supports and incorporates by refere	nce the comemnts of the Edison Electric Institute (EEI) to questions #10.	
Likes 0		
Dislikes 0		
Response		
Andy Fuhrman - Andy Fuhrman On Beha	lf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman	
Answer	No	
Document Name		
Comment		
MPC supports MRO NERC Standards Review Forum comments.		
Likes 0		
Dislikes 0		
Response		
Harishkumar Subramani Vijay Kumar - Independent Electricity System Operator - 2		
Answer	No	
Document Name		
Comment		
The associated coordination documentation should be updated prior to a return to service, not within 90 days after a return to service		
Likes 0		
Dislikes 0		

Response	
Srikanth Chennupati - Entergy - 1,3,5,6 -	SERC
Answer	No
Document Name	
Comment	
Firmware changes should not be re	equired a coordination study to be performed.
Likes 0	
Dislikes 0	
Response	
Pamela Frazier - Southern Company - So Company	outhern Company Services, Inc 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern
Answer	No
Document Name	
Comment	
 limiter settings. The 90-day grace period or its equifield change. As noted in the SAR, a miscoordination." There are fundamental differences Standards need to account for thes Unexpected field changes can and because of the quantity of small ind 	valent should be restored. At a minimum, PRC-019 needs to retain a grace period to triage an unexpected "The original SDT has confirmed that the 90-day time frame was for scenarios in which an entity discovered in dispersed power producing resources as identified through inclusion I4 of the BES definition and NERC e differences. will occur at dispersed power producing resources as identified through inclusion I4 of the BES definition lividual generators at these types of generation facilities. make mistakes and ship equipment with different software, firmware settings, controls or equipment
Likes 0	
Dislikes 0	
Response	
Stephen Stafford - Georgia Transmission Corporation - NA - Not Applicable - SERC	
Answer	No
Document Name	
Comment	

Similar to R1, clarify that R2 is applicable for Generator Owners or Transmission Owners that own an applicable facility. We suggest the underlined

statement be added: "Each Generator Own Requirement R1".	er and Transmission Owner with applicable facilities shall perform the coordination described in	
Likes 0		
Dislikes 0		
Response		
Natalie Johnson - Enel Green Power - 5		
Answer	No	
Document Name		
Comment		
Enel supports comments made by the MRC	NSRF.	
Likes 0		
Dislikes 0		
Response		
Daniela Atanasovski - APS - Arizona Puk	olic Service Co 1	
Answer	No	
Document Name		
Comment		
AZPS recommends that Requirement 2 (bullet 5) only apply to IBR unit control system firmware or settings changes that effect the protection of the unit. AZPS also recommends that the language "Within 90 calendar days following the identification or implementation of systems, equipment or setting changes that will affect the coordination described in R1, each Generator and Transmission Owner with applicable Facilities shall perform the coordination as described in Requirement R1."		
AZPS also supports the following comments submitted by EEI on behalf of its members:		
EEI does not support the current open ended language (i.e., "but are not limited to those listed below") used in Requirement R2. We also have concerns that the language in Requirement R2 could be clearer as to when a new coordination study is required. For this reason, we offer the following proposed changes to Requirement R2 (see bold face changes):		
R2. Each Generator Owner and Transmission Owner shall perform the coordination described in Requirement R1, for an aggregate Facility nameplate capability change of 10 % or more, prior to implementation of systems, equipment, or settings changes when such changes have a direct impact on the existing that will affect the coordination as described in Requirement R1. Associated coordination documentation shall be updated within 90 calendar days after the return to in-service date. These possible systems, equipment, or settings changes include, but are not limited to, the following: [Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]		

Likes 0

Dislikes 0		
Response		
Wayne Sipperly - North American Generator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF		
Answer	No	
Document Name		
Comment		
The NAGF notes that a full coordination study should not be required for IBR or PPC firmware changes unless there is a specific addition of new limiter and/or protection settings/functionality.		
Likes 0		
Dislikes 0		
Response		
Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF		
Answer	No	
Document Name		
Comment		

The MRO NSRF provides the following comments related to Requirement R2.:

- The 90-day grace period or its equivalent should be restored. At a minimum, PRC-019 needs to retain a grace period to triage an unexpected field change. As noted in the SAR, "The original SDT has confirmed that the 90-day time frame was for scenarios in which an entity discovered a miscoordination."
- There are fundamental differences in dispersed power producing resources as identified through inclusion I4 of the BES definition and NERC Standards need to account for these differences.
- Unexpected field changes can and will occur at dispersed power producing resources as identified through inclusion I4 of the BES definition because of the quantity of small individual generators at these types of generation facilities.
- }Manufacturer can and do at times make mistakes and ship equipment with different software, firmware settings, controls or equipment different than was specified.
- NERC can and does require extensive inverter parameter changes to solve newly identified events such as the Odessa events, the new NERC Alert (R-2023-03-14) on Essential Actions.
- Zero defect for large populations is not effective or efficient approach.
- Consider each wind / solar farm may have 100 200 individual inverters with 500 parameters per inverter, or 50,000 to 100,000 chances for an

 error every day. Alternately, NERC could begin creating non-zero defect standards / requirements with the ability to self-log / self-report, self-correct and keep regulatory records for small issues (1%, 2%, or 5). Something like a six-sigma versus zero defect. 		
Likes 1	Kelley Tim On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Fou	
Dislikes 0		
Response		
George E Brown - Pattern Operators LP - 5		
Answer	No	
Document Name		
Comment		
Pattern Energy supports Midwest Reliability	Organization's NERC Standards Review Forum's (MRO NSRF) comments.	
Likes 0		
Dislikes 0		
Response		
Dave Krueger - SERC Reliability Corporation - 10		
Answer	No	
Document Name		
Comment		
On behalf of the SERC Generator Working	Group	
a new study shouldn't have to be resubmitte	ed for firmware updates that don't affect controls. Suggest specifying that in the requirement.	
Likes 1	LaKenya Vannorman, N/A, Vannorman LaKenya	
Dislikes 0		
Response		
Steven Rueckert - Western Electricity Co	ordinating Council - 10, Group Name WECC	
Answer	No	
Document Name		
Comment		

See comment above. WECC believes footnand control coordination studies", thus remo	ote 3 should be eliminated, or changed to "Any as-left protection system setting may be utilized in protection bying the implication that a coordination study is required as part of PRC-019.
Likes 0	
Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy C	Corporation - 4, Group Name FE Voter
Answer	No
Document Name	
Comment	
	nal edits in bold for Requirement R2: A full coordination study should not be required for IBR or PPC addition of new limiter settings or changes to reactions of the existing limiters .
Likes 0	
Dislikes 0	
Response	
Donald Lock - Talen Generation, LLC - 5	
Answer	No
Document Name	
Comment	
Talen supports the comments of the NAGF	
Likes 0	
Dislikes 0	
Response	
Christine Kane - WEC Energy Group, Inc	: 3, Group Name WEC Energy Group
Answer	No
Document Name	
Comment	

WEC Energy Group supports the MRO NSRF and the NAGF comments.		
Likes 0		
Dislikes 0		
Response		
Thomas Foltz - AEP - 5		
Answer	No	
Document Name		
Comment		
"Power plant controller firmware or settings position that 90 days is an extremely aggre possibly be known only by the manufacture be allowed to document a plan to obtain thi	s as expressed in Response #9, the inclusion of "IBR unit control system firmware or settings changes" and changes" may prove problematic. The challenges illustrated in our response to Question #9 support our ssive timeframe for the Generator Owner or Transmission Owner to obtain information and insight that might r, and potentially including proprietary information. Rather than 90 days, AEP recommends that a) 180 days is additional information from the manufacturer and b) an additional 90 days to perform the coordination per change, perhaps it would consider allowing for a longer provision period, as agreed upon by the requestor	
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; Pedro Juarez, 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 / BANC		
Answer	Yes	
Document Name		
Comment		
NO (the voting button could not be changed). SMUD and BANC agree with the comments provided by MRO NSRF that the 90-day grace period or its equivalent should be restored.		
Likes 0		
Dislikes 0		
Response		

Junji Yamaguchi - Hydro-Quebec (HQ) -	5
Answer	Yes
Document Name	
Comment	
We support RSC comments	
Likes 0	
Dislikes 0	
Response	
Jennifer Bray - Arizona Electric Power C	ooperative, Inc 1
Answer	Yes
Document Name	
Comment	
Rationale document is laudable, the current as follows: "Each Generator Owner and Transmission equipment, or settings changes that could a described in Requirement R1, each General implementation." While this proposed modification may seem may impact coordination while also meeting. In other words, we believe that the current or change made to systems, equipment, or see Whereas we believe that the verbiage we proordination is identified.	T affect the coordination? While the intent of this language identified in the April 2023 PRC-019-3 Technical t verbiage seems to require that the GO/TO "prove the negative". We suggest modifying the language in R2 Owner shall review the coordination described in Requirement R1 prior to implementation of systems, affect the coordination described in Requirement R1. If changes are identified that will affect the coordination of owner and Transmission Owner shall perform the coordination described in Requirement R1 prior to a minor on the surface, we believe that it allows greater flexibility for the entity when reviewing changes that go the stated intent of the SDT. Werbiage necessitates that the entity attempt to "prove the negative" by generating evidence "that a particular
Likes 0	
Dislikes 0	
Response	
Casey Perry - PNM Resources - 1,3 - WE	cc
Answer	Yes

Document Name	
Comment	
PNM supports the changes proposed in PR	C-019-3, Requirement R2.
Likes 0	
Dislikes 0	
Response	
Adrian Raducea - DTE Energy - Detroit E	dison Company - 5, Group Name DTE Energy - DTE Electric
Answer	Yes
Document Name	
Comment	
	e changes", but it only associates the term with IBR control systems. In the bullet corresponding to protective nges are mentioned. Should protective functions include firmware changes? since most of the ware.
Likes 0	
Dislikes 0	
Response	
Deanna Carlson - Cowlitz County PUD -	5
Answer	Yes
Document Name	
Comment	
Deanna Carlson, Cowlitz County PUD No.	1, 5, 6/7/2023
Likes 0	
Dislikes 0	
Response	
Rajesh Geevarghese - Rajesh Geevarghe	ese On Behalf of: Kinte Whitehead, Exelon, 1, 3; - Rajesh Geevarghese
Answer	Yes

Document Name		
Comment		
Exelon concurs with the comments submitted by the EEI.		
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		
Daniel Gacek - Exelon - 1		
Answer	Yes	
Document Name		
Comment		
Exelon concurs with the comments submitted	ed by the EEI.	
Exelon concurs with the comments submitted Likes 0	ed by the EEI.	
	ed by the EEI.	
Likes 0	ed by the EEI.	
Likes 0 Dislikes 0	ed by the EEI.	
Likes 0 Dislikes 0	ed by the EEI.	
Likes 0 Dislikes 0 Response	ed by the EEI. Yes	
Likes 0 Dislikes 0 Response Nazra Gladu - Manitoba Hydro - 1		

Manitoba Hydro agrees that it is now written that clears up the language that a process needs to be in place that a protection and control coordination occurs prior the unit being placed in service and is documented.		
Manitoba Hydro agrees with the timelines given that during commissioning, in an ideal world, the as left settings from the exciter would verified with the compliance documentation before the unit is placed in service, however since this is very difficult to do, the 90 day window is there to verify the as left settings with the compliance documentation.		
Manitoba Hydro agrees that if you do a firmware upgrade for an IBR, all that is required is that you check the as left settings with the coordination, ensure they are the same and document the dates of the firmware change and that it didn't change the settings.		
Likes 0		
Dislikes 0		
Response		
Ruchi Shah - AES - AES Corporation - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Patricia Lynch - NRG - NRG Energy, Inc.	- 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
James Mearns - James Mearns On Behalf of: Dennis Sismaet, Northern California Power Agency, 4, 6, 3, 5; Jeremy Lawson, Northern California Power Agency, 4, 6, 3, 5; Harty Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns		
Answer	Yes	
Document Name		

Comment		
Likes 0		
Dislikes 0		
Response		
David Jendras Sr - Ameren - Ameren Ser	vices - 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mohamed Derbas - Sempra - San Diego (Gas and Electric - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Martin Sidor - NRG - NRG Energy, Inc 6		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Daniela Hammons - CenterPoint Energy		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Anna Todd - Southern Indiana Gas and E	Electric Co 1,3,5,6 - RF	
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		
Stephen Whaite - Stephen Whaite On Behalf of: Lindsey Mannion, ReliabilityFirst, 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot Body Member and Proxies		
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		
Adrian Andreoiu - BC Hydro and Power	Authority - 1, Group Name BC Hydro	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Kovin Conway Public Hillity District No	1 of Bond Oroillo County 3 WECC
Kevin Conway - Public Utility District No	-
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	
Jennie Wike - Jennie Wike On Behalf of: (Tacoma, WA), 1, 4, 5, 6, 3; Terry Gifford	Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Wendy Kalidass - U.S. Bureau of Reclam	nation - 5
Answer	Yes
Document Name	

Comment		
Likes 0		
Dislikes 0		
Response		
Gail Elliott - Gail Elliott On Behalf of: Mic	hael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer		
Document Name		
Comment		
ITC - no Comment From response received from Standard Owners or SMEs		
Likes 0		
Dislikes 0		
Response		

11. Do you agree the language proposed in PRC-019-3 Attachment 1? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.	
Thomas Foltz - AEP - 5	
Answer	No
Document Name	
Comment	
We believe this information is helpful and re the proposed revisions to the standard (incl	
	tion of Comments document that they had removed all reference to "protection functions", however one rates "NOTE: This standard does not require the installation or activation of any of the limiter or protection R."
Likes 0	
Dislikes 0	
Response	
Christine Kane - WEC Energy Group, Inc	c 3, Group Name WEC Energy Group
Answer	No
Document Name	
Comment	
WEC Energy Group supports the MRO NSI	RF and the NAGF comments.
Likes 0	
Dislikes 0	
Response	
Nazra Gladu - Manitoba Hydro - 1	
Answer	No
Document Name	
Comment	
Voltage dependent protection functions nee	eds to be clarified what is the safe voltage limit. Currently voltage based functions are coordinated at 1 p.u.

and this coordination will hold little value wh	en an event such a loss of field occurs and the voltage will drop.	
	do not have equipment capability information provided such as volts per hertz capability due to the age of ard needs to be clarified what to do if this information if not provided.	
Likes 0		
Dislikes 0		
Response		
Donald Lock - Talen Generation, LLC - 5		
Answer	No	
Document Name		
Comment		
Talen supports the comments of the NAGF.		
Likes 0		
Dislikes 0		
Response		
Mark Garza - FirstEnergy - FirstEnergy C	orporation - 4, Group Name FE Voter	
Answer	No	
Document Name		
Comment		
FirstEnergy supports EEI's comments which	n state:	
Section A: EEI does not agree that the plant's "Distributed control system (DCS) should be included in a protection coordination because protection engineers have no control or input into those systems rendering any effort to provide reliable coordination with voltage/VAR limit settings in those systems nearly impossible.		
	as "Reactive compensating devices voltage control functions" and "IBR unit momentary cessation in this list. Momentary cessation is not a protection function and has been liberally renamed; this is a loss-of-	
Likes 0		
Dislikes 0		
Response		

Dave Krueger - SERC Reliability Corporation - 10		
Answer	No	
Document Name		
Comment		
On behalf of the SERC Generator Working	Group:	
In section B		
Mixes control functions (like momentary ces	ssation) and protection functions. Also, "associated control/protection functions" terms are to vague/broad	
Likes 1	LaKenya Vannorman, N/A, Vannorman LaKenya	
Dislikes 0		
Response		
George E Brown - Pattern Operators LP	- 5	
Answer	No	
Document Name		
Comment		
Pattern Energy supports Midwest Reliability Organization's NERC Standards Review Forum's (MRO NSRF) comments.		
Likes 0		
Dislikes 0		
Response		
Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF		
Answer	No	
Document Name		
Comment		
The MDO NCDE does not agree with the us	on of the undefined term inverter hand we cause (IDD) along a surround to make a O. Further	

The MRO NSRF does not agree with the use of the undefined term Inverter-based resource (IBR), please see response to question 9. Further, "Reactive compensating devices voltage control functions" and "IBR unit momentary cessation protection function" are neither limiters or protection functions and need to be removed, perhaps the SDT should consider current (i). The term "control function" is used throughout Attachment 1, Section B and should be removed or changed to "limiters". The term "protective function" should be change to "Protection System setting". Utilizing a defined term clearly articulates what needs to be coordinated.

Further, Attachment 1 uses "include but are not limited to" throughout. The MRO NSRF disagrees with "include but are not limited to" language as it is

open ended and subject to interpretation by its entirety in Attachment 1.	both responsible entities and enforcement authorities. The MRO NSRF suggests removing the language in
Likes 1	Kelley Tim On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Fou
Dislikes 0	
Response	
Wayne Sipperly - North American Genera	ator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF
Answer	No
Document Name	
Comment	
independent of protection engineers' input a b. Section B - See response to Question momentary cessation protection function" si control function. The proposed revision adds "and associate examples or requirements, such that GOs/T not even make sense in all listed examples. Likes 0 Dislikes 0	istributed control system (DCS) voltage/VAR limit settings" bullet. These DCS limits are often set completely and are at the discretion of controls engineers and/or plant operations personnel. 9 above. Items such as "Reactive compensating devices voltage control functions" and "IBR unit hould be removed from this list. Momentary cessation is not a protection function; rather it is a loss-of-d control function" to the end of each bulleted example. A NERC standard should not list such vague TOs are susceptible to falling out of compliance on a subjective basis. Furthermore, the control function does are reached, what is an associated control function for Transformer overvoltage protection function?
Response	
Daniela Atanasovski - APS - Arizona Pub	olic Service Co 1
Answer	No
Document Name	
Comment	
AZPS supports the following comments sub	omitted by EEI on behalf of its members:

EEI does not support the open ended language used in both Sections A and B of Attachment 1. Specifically, the ending phrase of both Section A and B state "include but are not limited to" does not conform to a Results Based Reliability Standard and needs to be removed. Such language places responsible entities compliance subject to the individual interpretation of an auditor rather than the clear language that should be included in a NERC Reliability Standard.

We are concerned with the inclusion of bullet 8 which includes Distributed Control Systems (DCS). Generally, protection engineers have no insights into the programing of these systems and these setting are subject to change without their knowledge. For this reason, we seek more clarity regarding the need for the inclusion of systems, noting that given the above limitations any effort to and protection coordination studies noting provide reliable coordination with voltage/VAR limit settings in those systems is unlikely to be successful.

The items such as "Reactive compensating devices voltage control functions" and "IBR unit momentary cessation protection function" should be removed from the Section B list. Momentary cessation is not a protection function and has been liberally renamed within IBR systems moreover this is a loss-of-control function, not a protection function.

We seeks clarity on the addition of "and associated control function" to the end of each bulleted item under Section B. As mentioned earlier in our comments, control functions are undefined and add substantial ambiguity to this Reliability Standard and should be removed unless defined. Furthermore, the addition of "and control function" to every item is unclear and should be explained. For example, what is an associated control function for Transformer overvoltage protection function?

Likes 0	
Dislikes 0	
Response	
Natalie Johnson - Enel Green Power - 5	
Answer	No
Document Name	
Comment	
Enel supports comments made by the MRC	NSRF.
Likes 0	
Dislikes 0	
Response	
Pamela Frazier - Southern Company - So Company	outhern Company Services, Inc 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern
Answer	No
Document Name	
Commont	

- Attachment 1, Section A: Recommend removal of "Distributed control system (DCS) voltage/VAR limit settings." These DCS limits are often set completely independent of protection engineers' input and are at the discretion of controls engineers and/or plant operations personnel.
- Attachment 1, Section B: See first note above. Items such as "Reactive compensating devices voltage control functions" and "IBR unit momentary cessation protection function" should be removed from this list. Momentary cessation is not a protection function and has been liberally renamed; this is a loss-of-control function.
- Attachment 1, Section B: This revision adds "and associated control function" to the end of each bulleted example. A NERC standard should not list such vague examples or requirements, such that GOs/TOs are susceptible to falling out of compliance on a subjective basis. Furthermore, the control function does not even make sense in all listed examples. For example, what is an associated control function for

Transformer overvoltage protection	Transformer overvoltage protection function?	
Likes 0		
Dislikes 0		
Response		
Srikanth Chennupati - Entergy - 1,3,5,6 - SERC		
Answer	No	
Document Name		
Comment		
None		
Likes 0		
Dislikes 0		
Response		
Andy Fuhrman - Andy Fuhrman On Beha	ulf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman	
	, , ,,	
Answer	No	
Answer Document Name		
Document Name Comment Regarding Attachment 1, Section 1, it is und	No clear if alarming related to a DCS voltage/VAR limit setting would be considered a "protection function". For nat is sourced from the DCS, and this alarm is not coordinated per PRC-019, and the alarm may lead the	
Comment Regarding Attachment 1, Section 1, it is undexample, if an operator receives an alarm the operator to act, would the set point of this alarm.	Clear if alarming related to a DCS voltage/VAR limit setting would be considered a "protection function". For nat is sourced from the DCS, and this alarm is not coordinated per PRC-019, and the alarm may lead the larm need to be coordinated per PRC-019? On, is there a nominal voltage level, for example generator bus voltage or auxiliary/station service bus	
Document Name Comment Regarding Attachment 1, Section 1, it is undexample, if an operator receives an alarm the operator to act, would the set point of this alarm is considered a protection function.	Clear if alarming related to a DCS voltage/VAR limit setting would be considered a "protection function". For nat is sourced from the DCS, and this alarm is not coordinated per PRC-019, and the alarm may lead the larm need to be coordinated per PRC-019? On, is there a nominal voltage level, for example generator bus voltage or auxiliary/station service bus the protection function?	
Document Name Comment Regarding Attachment 1, Section 1, it is undexample, if an operator receives an alarm the operator to act, would the set point of this all of the set point of the set po	Clear if alarming related to a DCS voltage/VAR limit setting would be considered a "protection function". For nat is sourced from the DCS, and this alarm is not coordinated per PRC-019, and the alarm may lead the larm need to be coordinated per PRC-019? On, is there a nominal voltage level, for example generator bus voltage or auxiliary/station service bus the protection function?	
Comment Regarding Attachment 1, Section 1, it is undexample, if an operator receives an alarm the operator to act, would the set point of this along the set point of the set p	Clear if alarming related to a DCS voltage/VAR limit setting would be considered a "protection function". For nat is sourced from the DCS, and this alarm is not coordinated per PRC-019, and the alarm may lead the larm need to be coordinated per PRC-019? On, is there a nominal voltage level, for example generator bus voltage or auxiliary/station service bus the protection function?	
Document Name Comment Regarding Attachment 1, Section 1, it is undexample, if an operator receives an alarm the operator to act, would the set point of this aligned and the set point of the s	Clear if alarming related to a DCS voltage/VAR limit setting would be considered a "protection function". For nat is sourced from the DCS, and this alarm is not coordinated per PRC-019, and the alarm may lead the larm need to be coordinated per PRC-019? On, is there a nominal voltage level, for example generator bus voltage or auxiliary/station service bus the protection function?	
Document Name Comment Regarding Attachment 1, Section 1, it is undexample, if an operator receives an alarm the operator to act, would the set point of this aligned and the set point of the s	Clear if alarming related to a DCS voltage/VAR limit setting would be considered a "protection function". For nat is sourced from the DCS, and this alarm is not coordinated per PRC-019, and the alarm may lead the larm need to be coordinated per PRC-019? On, is there a nominal voltage level, for example generator bus voltage or auxiliary/station service bus the protection function?	
Document Name Comment Regarding Attachment 1, Section 1, it is undexample, if an operator receives an alarm the operator to act, would the set point of this aligned and the set point of the s	Clear if alarming related to a DCS voltage/VAR limit setting would be considered a "protection function". For nat is sourced from the DCS, and this alarm is not coordinated per PRC-019, and the alarm may lead the larm need to be coordinated per PRC-019? On, is there a nominal voltage level, for example generator bus voltage or auxiliary/station service bus the protection function? Review Forum comments.	

Document Name	
Comment	
Eversource supports the comments submit	ted by EEI.
Likes 0	
Dislikes 0	
Response	
Alan Kloster - Alan Kloster On Behalf of: 5, 1; Marcus Moor, Evergy, 3, 6, 5, 1; - Al	: Jennifer Flandermeyer, Evergy, 3, 6, 5, 1; Jeremy Harris, Evergy, 3, 6, 5, 1; Kevin Frick, Evergy, 3, 6, an Kloster
Answer	No
Document Name	
Comment	
Evergy supports and incorporates by refere	ence the comemnts of the Edison Electric Institute (EEI) to questions #11.
Likes 0	
Dislikes 0	
Response	
Steven Taddeucci - NiSource - Northern	Indiana Public Service Co 3
Answer	No
Document Name	
Comment	
The example diagrams that were removed	should be returned along with the addition of new examples specifically for IBRs.
Likes 0	
Dislikes 0	
Response	
Jamison Cawley - Nebraska Public Powe	er District - 1
Answer	No
Document Name	
Comment	

NPPD supports comments submitted by MF	RO NSRF.
Likes 0	
Dislikes 0	
Response	
Kimberly Turco - Constellation - 6	
Answer	No
Document Name	
Comment	
Constellation aligns comments with NAGF.	
Kimberly Turco on behalf of Constellation S	Segments 5 and 6
Likes 0	
Dislikes 0	
Response	
Hillary Creurer - Hillary Creurer On Beha	lf of: Lori Frisk, Allete - Minnesota Power, Inc., 1; - Hillary Creurer
Answer	No
Document Name	
Comment	
Minnesota Power supports MRO's NERC S	Standards Review Forum (NSRF) comments
Likes 0	
Dislikes 0	
Response	
Claudine Bates - Black Hills Corporation	- 6
Answer	No
Document Name	
Comment	

Black Hills Corporation supports the NAGF	comments.
Likes 0	
Dislikes 0	
Response	
Sheila Suurmeier - Black Hills Corporation	on - 5
Answer	No
Document Name	
Comment	
Black Hills Corporation supports the NAGF	comments.
Likes 0	
Dislikes 0	
Response	
Micah Runner - Black Hills Corporation -	·1
Answer	No
Document Name	
Comment	
Black Hills Corporation supports the NAGF	comments.
Likes 0	
Dislikes 0	
Response	
Israel Perez - Israel Perez On Behalf of: Timothy Singh, Salt River Project, 3, 5, 1	Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; , 6; - Israel Perez
Answer	No
Document Name	
Comment	
SRP prefers IBR's have their own set of sta	andards versus incorporating them into current standards.

Likes 0		
Dislikes 0		
Response		
Mark Gray - Edison Electric Institute - NA	\ - Not Applicable - NA - Not Applicable	
Answer	No	
Document Name		
Comment		
EEI does not support the open ended language used in both Sections A and B of Attachment 1. Specifically, the ending phrase of both Section A and B state "include but are not limited to" does not conform to a Results Based Reliability Standard and needs to be removed. Such language places responsible entities compliance subject to the individual interpretation of an auditor rather than the clear language that should be included in a NERC Reliability Standard. We do not support the inclusion of bullet 8 under Section A of Attachment 1, which includes Distributed Control Systems (DCS). Generally, protection rengineers have no insights into the programing of these systems and those setting are subject to change without their knowledge. For this reason, we seek more clarity regarding the need for the inclusion of these systems, noting that given the above limitations any effort to include these settings into protection coordination studies is unlikely to yield any long term beneficial results. Section B Bulleted Items: Items such as "Reactive compensating devices voltage control functions" and "IBR unit momentary cessation protection function" should be removed from the Section B list. Momentary cessation is not a protection function and has been liberally renamed within IBR systems moreover this is a loss-of-control function, not a protection function. We seeks clarity on the addition of "and associated control function" to the end of each bulleted item under Section B. As mentioned earlier in our comments, control functions are undefined and add substantial ambiguity to this Reliability Standard and should be removed unless defined. Furthermore, the addition of "and control function" to every item is unclear and should be explained. For example, what is an associated control function for Transformer overvoltage protection function?		
Likes 0		
Dislikes 0		
Response		
Alison MacKellar - Constellation - 5		
Answer	No	
Document Name		
Comment		
Constellation agrees with comments made by NAGF.		
Alison Mackellar on behalf of Constellation Segments 5 and 6		
Likes 0		

Dislikes 0	
Response	
Todd Bennett - Associated Electric Coop	perative, Inc 3, Group Name AECI
Answer	No
Document Name	
Comment	
AECI is supportive of the comments provide	ed by the NAGF.
Likes 0	
Dislikes 0	
Response	
Ruchi Shah - AES - AES Corporation - 5	
Answer	No
Document Name	
Comment	
elements is shown. Additionally, legacy plan	to Question 9 response regarding more guidance is needed on how coordination between all of these nts may no longer have inverter OEMs in business for consultation. Therefore, collecting details that were not plant was commissioned, such as momentary cessation, is impossible. The SDT should consider legacy le.
Likes 0	
Dislikes 0	
Response	
Daniel Gacek - Exelon - 1	
Answer	Yes
Document Name	
Comment	
Exelon concurs with the comments submitted	ed by the EEI.
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		
Rajesh Geevarghese - Rajesh Geevarghe	ese On Behalf of: Kinte Whitehead, Exelon, 1, 3; - Rajesh Geevarghese	
Answer	Yes	
Document Name		
Comment		
Exelon concurs with the comments submitte	ed by the EEI.	
Likes 0		
Dislikes 0		
Response		
Deanna Carlson - Cowlitz County PUD - 5		
Answer	Yes	
Document Name		
Comment		
Deanna Carlson, Cowlitz County PUD No.	1, 5, 6/7/2023	
Likes 0		
Dislikes 0		
Response		

Anna Todd - Southern Indiana Gas and I	Electric Co 1,3,5,6 - RF
Answer	Yes
Document Name	
Comment	
SIGE supports comments submitted by the	EEI.
Likes 0	
Dislikes 0	
Response	
Casey Perry - PNM Resources - 1,3 - WE	CC
Answer	Yes
Document Name	
Comment	
PNM supports the changes proposed in PR	RC-019-3, Attachment 1
Likes 0	
Dislikes 0	
Response	
Junji Yamaguchi - Hydro-Quebec (HQ) -	5
Answer	Yes
Document Name	
Comment	
We support RSC comments	
Likes 0	
Dislikes 0	
Response	
David Jendras Sr - Ameren - Ameren Se	rvices - 3

Answer	Yes
Document Name	
Comment	
Ameren believes that control functions that	limit voltage/MVAR should not be changed without being studied for coordination.
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	Yes
Document Name	
Comment	
comments provided by the MRO NSRF, in t	d). Attachment 1 uses "include but are not limited to" throughout. SMUD and BANC agree with the that the "include but are not limited to" language is open ended and subject to interpretation by both rities. This language should be removed in its entirety from Attachment 1.
Likes 0	
Dislikes 0	
Response	
Michael Johnson - Michael Johnson On Behalf of: Frank Lee, Pacific Gas and Electric Company, 3, 1, 5; Marco Rios, Pacific Gas and Electric Company, 3, 1, 5; Sandra Ellis, Pacific Gas and Electric Company, 3, 1, 5; - Michael Johnson, Group Name PG&E All Segments	
Answer	Yes
Document Name	
Comment	
PG&E agrees with the proposed language i	in Attachment 1.
Likes 0	
Dislikes 0	
Response	

Wendy Kalidass - U.S. Bureau of Reclam	nation - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jennie Wike - Jennie Wike On Behalf of: (Tacoma, WA), 1, 4, 5, 6, 3; Terry Gifford	Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities , Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Chris Wagner - Santee Cooper - 1, Group	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kevin Conway - Public Utility District No	
Answer	Yes
Document Name	
Comment	

Likes 0		
Dislikes 0		
Response		
Cain Braveheart - Bonneville Power Adm	inistration - 1,3,5,6 - WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Adrian Andreoiu - BC Hydro and Power A	Authority - 1, Group Name BC Hydro	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mike Magruder - Avista - Avista Corporation - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Stephen Whaite - Stephen Whaite On Be Body Member and Proxies	half of: Lindsey Mannion, ReliabilityFirst, 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot
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	
Donna Wood - Tri-State G and T Associa	tion, Inc 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Adrian Raducea - DTE Energy - Detroit E	dison Company - 5, Group Name DTE Energy - DTE Electric
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Stephen Stafford - Georgia Transmissior	Corporation - NA - Not Applicable - SERC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Harishkumar Subramani Vijay Kumar - In	dependent Electricity System Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jennifer Bray - Arizona Electric Power C	ooperative, Inc 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Daniela Hammons - CenterPoint Energy Houston Electric, LLC - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Martin Sidor - NRG - NRG Energy, Inc 0	6	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mohamed Derbas - Sempra - San Diego	Gas and Electric - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
James Mearns - James Mearns On Beha California Power Agency, 4, 6, 3, 5; Marty	lf of: Dennis Sismaet, Northern California Power Agency, 4, 6, 3, 5; Jeremy Lawson, Northern y Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns	
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Patricia Lynch - NRG - NRG Energy, Inc.	- 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jodirah Green - ACES Power Marketing -	- 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Autl	hority - 1,3,5,6 - SERC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Charles Yeung - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC, Group Name SRC 2023	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kennedy Meier - Electric Reliability Coul	ncil of Texas, Inc 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gail Elliott - Gail Elliott On Behalf of: Mic	chael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott
Answer	
Document Name	
Comment	
ITC - no Comment From response received	d from Standard Owners or SMEs
Likes 0	
Dislikes 0	
Response	

12. The SDT believes the language of PRC-019-3 addresses the issues outlined in the two SARs 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. Ruchi Shah - AES - AES Corporation - 5	
Document Name	
Comment	
As the desired coordination is unclear, it is	difficult to determine what the cost will be.
Likes 0	
Dislikes 0	
Response	
Todd Bennett - Associated Electric Coop	perative, Inc 3, Group Name AECI
Answer	No
Document Name	
Comment	
AECI is supportive of the comments provide	ed by the NAGF.
Likes 0	
Dislikes 0	
Response	
Alison MacKellar - Constellation - 5	
Answer	No
Document Name	
Comment	

As stated above, Constellation does not agree with the expanded scope as it will essentially double the work as the Generator Owner will now need to perform a coordination study prior to syncing to grid and then perform a second coordination study following commissioning testing (following tuning). External vendors are routinely hired to perform the coordination studies and therefore this proposed change significantly increases the cost to the Generator Owner.

Alison Mackellar on behalf of Constellation Segments 5 and 6

Likes 0		
Dislikes 0		
Response		
Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez		
Answer	No	
Document Name		
Comment		
SRP prefers IBR's have their own set of sta	andards versus incorporating them into current standards.	
Likes 0		
Dislikes 0		
Response		
Hillary Creurer - Hillary Creurer On Beha	ılf of: Lori Frisk, Allete - Minnesota Power, Inc., 1; - Hillary Creurer	
Answer	No	
Document Name		
Comment		
Minnesota Power supports MRO's NERC Standards Review Forum (NSRF) comments		
Likes 0		
Dislikes 0		
Response		
Kimberly Turco - Constellation - 6		
Answer	No	
Document Name		
Comment		

As stated above, Constellation does not agree with the expanded scope as it will essentially double the work as the Generator Owner will now need to perform a coordination study prior to syncing to grid and then perform a second coordination study following commissioning testing (following tuning). External vendors are routinely hired to perform the coordination studies and therefore this proposed change significantly increases the cost to the Generator Owner.

Kimberly Turco on behalf of Constellation Segments 5 and 6		
Likes 0		
Dislikes 0		
Response		
Jamison Cawley - Nebraska Public Powe	er District - 1	
Answer	No	
Document Name		
Comment		
NPPD supports comments submitted by MI	RO NSRF.	
Likes 0		
Dislikes 0		
Response		
Andy Fuhrman - Andy Fuhrman On Beha	alf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman	
Answer	No	
Document Name		
Comment		
MPC supports MRO NERC Standards Review Forum comments.		
Likes 0		
Dislikes 0		
Response		
Srikanth Chennupati - Entergy - 1,3,5,6 - SERC		
Answer	No	
Document Name		
Comment		
GO/GOPs will need more informati	on to adequately assess the cost effectiveness of the proposed approach.	
Likes 0		

Dislikes 0	
Response	
Pamela Frazier - Southern Company - Southern Company Services, Inc 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company	
Answer	No
Document Name	
Comment	
See comments and suggested improvement	nt items noted in Southern Company responses to the previous questions.
Likes 0	
Dislikes 0	
Response	
Natalie Johnson - Enel Green Power - 5	
Answer	No
Document Name	
Comment	
Enel supports comments made by the MRC	NSRF.
Likes 0	
Dislikes 0	
Response	
Wayne Sipperly - North American Genera	ator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF
Answer	No
Document Name	
Comment	
GO/GOPs will need more information to add	equately assess the cost effectiveness of the proposed approach.
Likes 1	LaKenya Vannorman, N/A, Vannorman LaKenya
Dislikes 0	
Response	

Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Grou	up Name MRO NSRF	
Answer	No	
Document Name		
Comment		
The MRO NSRF believes that the proposed language, as noted in our responses to questions nine, 10 & 11, is not clearly articulating what is and is not in scope. The intention of this standard is to ensure Protection System setting that respond to electrical quantities and limiters that affect these electrical quantities are coordinated to ensure no unnecessary Protection System activations occur; it seems that the scope has expanded well beyond the intention.		
Likes 0		
Dislikes 0		
Response		
George E Brown - Pattern Operators LP	- 5	
Answer	No	
Document Name		
Comment		
Pattern Energy supports Midwest Reliability	Organization's NERC Standards Review Forum's (MRO NSRF) comments.	
Likes 0		
Dislikes 0		
Response		
Andy Thomas - Duke Energy - 1,3,5,6 - S	ERC,RF	
Answer	No	
Document Name		
Comment		
NERC does not provide guidance for IBR OEM to comply with regulatory standards.		
Likes 0		
Dislikes 0		
Resnonse		

Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter		
Answer	No	
Document Name		
Comment		
Until the Drafting Team provides clarification	n and guidance, FirstEnergy cannot determine the scope of this standard in a cost-effective manner.	
Likes 0		
Dislikes 0		
Response		
Donald Lock - Talen Generation, LLC - 5		
Answer	No	
Document Name		
Comment		
Talen supports the comments of the NAGF		
Likes 0		
Dislikes 0		
Response		
Christine Kane - WEC Energy Group, Inc	c 3, Group Name WEC Energy Group	
Answer	No	
Document Name		
Comment		
WEC Energy Group supports the MRO NS	RF and the NAGF comments.	
Likes 0		
Dislikes 0		
Response		

Alan Kloster - Alan Kloster On Behalf of: Jennifer Flandermeyer, Evergy, 3, 6, 5, 1; Jeremy Harris, Evergy, 3, 6, 5, 1; Kevin Frick, Evergy, 3, 6, 5, 1; Marcus Moor, Evergy, 3, 6, 5, 1; - Alan Kloster

Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Pul	olic Service Co 1
Answer	Yes
Document Name	
Comment	
None	
Likes 0	
Dislikes 0	
Response	
Deanna Carlson - Cowlitz County PUD -	5
Deanna Carlson - Cowlitz County PUD - Answer	5 Yes
Answer	
Answer Document Name	Yes
Answer Document Name Comment	Yes
Answer Document Name Comment Deanna Carlson, Cowlitz County PUD No.	Yes
Answer Document Name Comment Deanna Carlson, Cowlitz County PUD No. Likes 0	Yes
Answer Document Name Comment Deanna Carlson, Cowlitz County PUD No. Likes 0 Dislikes 0	Yes
Answer Document Name Comment Deanna Carlson, Cowlitz County PUD No. Likes 0 Dislikes 0	Yes
Answer Document Name Comment Deanna Carlson, Cowlitz County PUD No. Likes 0 Dislikes 0 Response	Yes
Answer Document Name Comment Deanna Carlson, Cowlitz County PUD No. Likes 0 Dislikes 0 Response Nazra Gladu - Manitoba Hydro - 1	Yes 1, 5, 6/7/2023

These changes will increase the workload, processes and evidence collected.	
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	
Charles Yeung - Southwest Power Pool,	Inc. (RTO) - 2 - MRO,WECC, Group Name SRC 2023
Answer	Yes
Document Name	
Dodamont Hamo	
Comment	
Comment	
Comment Likes 0 Dislikes 0	
Comment Likes 0	
Comment Likes 0 Dislikes 0 Response	
Comment Likes 0 Dislikes 0	
Comment Likes 0 Dislikes 0 Response Dennis Chastain - Tennessee Valley Aut Answer	hority - 1,3,5,6 - SERC Yes
Comment Likes 0 Dislikes 0 Response Dennis Chastain - Tennessee Valley Aut Answer Document Name	
Comment Likes 0 Dislikes 0 Response Dennis Chastain - Tennessee Valley Aut Answer	
Comment Likes 0 Dislikes 0 Response Dennis Chastain - Tennessee Valley Aut Answer Document Name Comment	
Comment Likes 0 Dislikes 0 Response Dennis Chastain - Tennessee Valley Aut Answer Document Name Comment Likes 0	
Comment Likes 0 Dislikes 0 Response Dennis Chastain - Tennessee Valley Aut Answer Document Name Comment	

Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Patricia Lynch - NRG - NRG Energy, Inc.	- 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
	lf of: Dennis Sismaet, Northern California Power Agency, 4, 6, 3, 5; Jeremy Lawson, Northern y Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns	
Answer	Yes	
Document Name		
Comment		
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	Yes	

Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mohamed Derbas - Sempra - San Diego	Gas and Electric - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Martin Sidor - NRG - NRG Energy, Inc 0	3	
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		
Daniela Hammons - CenterPoint Energy Houston Electric, LLC - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Steven Taddeucci - NiSource - Northern	Indiana Public Service Co 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Jennifer Bray - Arizona Electric Power Cooperative, Inc 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
	ndependent Electricity System Operator - 2	
Answer	Yes	
Document Name		

Comment		
Likes 0		
Dislikes 0		
Response		
Casey Perry - PNM Resources - 1,3 - WE	cc	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Stephen Stafford - Georgia Transmission	n Corporation - NA - Not Applicable - SERC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Anna Todd - Southern Indiana Gas and Electric Co 1,3,5,6 - RF		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Adrian Raducea - DTE Energy - Detroit Edison Company - 5, Group Name DTE Energy - DTE Electric		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Donna Wood - Tri-State G and T Associ	iation, Inc 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Dave Krueger - SERC Reliability Corpor	ration - 10	
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		
Stephen Whaite - Stephen Whaite On Be Body Member and Proxies	half of: Lindsey Mannion, ReliabilityFirst , 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot	
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		
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Kovin Conway Public Hillity District No	1 of Bond Oroillo County 3 WECC
Kevin Conway - Public Utility District No	-
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	
Jennie Wike - Jennie Wike On Behalf of: (Tacoma, WA), 1, 4, 5, 6, 3; Terry Gifford	Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Wendy Kalidass - U.S. Bureau of Reclam	nation - 5
Answer	Yes
Document Name	

Comment		
Likes 0		
Dislikes 0		
Response		
	Behalf of: Frank Lee, Pacific Gas and Electric Company, 3, 1, 5; Marco Rios, Pacific Gas and Electric as and Electric Company, 3, 1, 5; - Michael Johnson, Group Name PG&E All Segments	
Answer		
Document Name		
Comment		
At this time PG&E has not been able to com	nplete a cost analysis on the impact of the modifications.	
Likes 0		
Dislikes 0		
Response		
David Jendras Sr - Ameren - Ameren Ser	vices - 3	
Answer		
Document Name		
Comment		
No comment.		
Likes 0		
Dislikes 0		
Response		
Gail Elliott - Gail Elliott On Behalf of: Mic	hael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer		
Document Name		
Comment		
ITC - no Comment From response received	from Standard Owners or SMEs	

Likes 0		
Dislikes 0		
Response		
Micah Runner - Black Hills Corporation -	1	
Answer		
Document Name		
Comment		
Black Hills Corporation will not provide com	ment on cost-effectiveness.	
Likes 0		
Dislikes 0		
Response		
Sheila Suurmeier - Black Hills Corporation	on - 5	
Answer		
Document Name		
Comment		
Black Hills Corporation will not provide comment for cost-effectiveness.		
Likes 0		
Dislikes 0		
Response		
Claudine Bates - Black Hills Corporation - 6		
Answer		
Document Name		
Comment		
Black Hills Corporation will not provide comment on cost-effectiveness.		
Likes 0		
Dislikes 0		

Response		
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC		
Answer		
Document Name		
Comment		
No Comment		
Likes 0		
Dislikes 0		
Response		

13. The SDT proposes a 1-year implementation plan for PRC-019-3 Requirement R2, with an additional 1 years (2 years total) for compliance with Requirements R1. The reoccurring 5-year periodicity of Requirement R1 has been removed. Would these proposed timeframes give enough time to put into place process, procedures or technology to meet the proposed language? If you think an alternate timeframe is needed, please propose an alternate implementation plan and time period.		
Wendy Kalidass - U.S. Bureau of Reclam	nation - 5	
Answer	No	
Document Name		
Comment		
Reclamation recommends a 2-year implem	entation plan for both requirements R1 and R2.	
Likes 0		
Dislikes 0		
Response		
Christine Kane - WEC Energy Group, Inc 3, Group Name WEC Energy Group		
Answer	No	
Document Name		
Comment		
WEC Energy Group supports the MRO NSRF comments.		
Likes 0		
Dislikes 0		
Response		
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC		
Answer	No	
Document Name		
Comment		
BPA supports comments submitted by the	US Bureau of Reclamation that a 2-year Implementation Plan be applied to PRC-019-3 for both R1 and R2.	
Likes 0		
Dislikes 0		

Response	
Mark Garza - FirstEnergy - FirstEnergy C	Corporation - 4, Group Name FE Voter
Answer	No
Document Name	
Comment	
Until the Drafting Team provides clarificatio	n and guidance, FirstEnergy cannot determine the implementation scope of this standard.
Likes 0	
Dislikes 0	
Response	
George E Brown - Pattern Operators LP	- 5
Answer	No
Document Name	
Comment	
Pattern Energy supports Midwest Reliability	y Organization's NERC Standards Review Forum's (MRO NSRF) comments.
Likes 0	
Dislikes 0	
Response	
Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Gro	up Name MRO NSRF
Answer	No
Document Name	
Comment	
The MRO NSRF believes that the implement PRC-019-3 study in accordance with that described by the study in accordance with that described by the study in accordance with the study in accorda	ntation plan needs to account for the original 5-year periodicity and allow existing entities to perform the ate (original 5-year periodicity).
Likes 0	
Dislikes 0	

Response		
Adrian Raducea - DTE Energy - Detroit E	dison Company - 5, Group Name DTE Energy - DTE Electric	
Answer	No	
Document Name		
Comment		
Recommend a 1-year implementation plan and an additional 2 years (3 years total) for compliance with R1. This will allow a better opportunity to perform any physical modifications required during scheduled outages.		
Likes 0		
Dislikes 0		
Response		
Natalie Johnson - Enel Green Power - 5		
Answer	No	
Document Name		
Comment		
Enel supports comments made by the MRC	NSRF.	
Likes 0		
Dislikes 0		
Response		
Pamela Frazier - Southern Company - Southern Company Services, Inc 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company		
Answer	No	
Document Name		
Comment		
Southern Company believes that the implementation plan needs to account for the original 5-year periodicity and allow existing entities to perform the PRC-019-3 study in accordance with that date (original 5-year periodicity).		
Likes 0		

Dislikes 0		
Response		
Srikanth Chennupati - Entergy - 1,3,5,6 -	SERC	
Answer	No	
Document Name		
Comment		
 Entergy do not agree with the 1-year implementation plan for R1. Should DCS settings require review or updating in the existing reports generated for PRC-019-2, the 1- year Implementation plan does not provide enough time for a vendor to generate the test report, complete Site reviews of the report, address/incorporate comments, generate the Engineering change to create and complete the associated Engineering Report. Recommend a 2- year implementation requirement for R1 		
Likes 0		
Dislikes 0		
Response		
Andy Fuhrman - Andy Fuhrman On Beha	ılf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman	
Answer	No	
Document Name		
Comment		
MPC supports MRO NERC Standards Review Forum comments.		
Likes 0		
Dislikes 0		
Response		
Jamison Cawley - Nebraska Public Power District - 1		
Answer	No	
Document Name		
Comment		
NPPD supports comments submitted by MRO NSRF.		
Likes 0		
Dislikes 0		

Response		
Hillary Creurer - Hillary Creurer On Beha	ılf of: Lori Frisk, Allete - Minnesota Power, Inc., 1; - Hillary Creurer	
Answer	No	
Document Name		
Comment		
Minnesota Power supports MRO's NERC S	Standards Review Forum (NSRF) comments	
Likes 0		
Dislikes 0		
Response		
Israel Perez - Israel Perez On Behalf of: Timothy Singh, Salt River Project, 3, 5, 1	Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; , 6; - Israel Perez	
Answer	No	
Document Name		
Comment		
SRP prefers IBR's have their own set of sta	andards versus incorporating them into current standards.	
Likes 0		
Dislikes 0		
Response		
David Jendras Sr - Ameren - Ameren Se	rvices - 3	
Answer	No	
Document Name		
Comment		
Ameren will wait to comment on the implem	nentation plan until the changes discussed in Question 9 are addressed by the drafting team.	
Likes 0		
Dislikes 0		
Response		

Ruchi Shah - AES - AES Corporation - 5		
Answer	No	
Document Name		
Comment		
Much like how the initial effective version of the standard had a staged implementation plan with increasing percentages of each entity's Facilities needing to reach compliance, this implementation plan needs the same staging. This is especially the case for IBRs, as their burden for demonstration of compliance is increased and the guidance for reaching compliance is still lacking.		
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		
Daniel Gacek - Exelon - 1		
Answer	Yes	
Document Name		
Comment		
Exelon concurs with the comments submitted by the EEI.		
Likes 0		
Dislikes 0		
Response		

Rajesh Geevarghese - Rajesh Geevarghese On Behalf of: Kinte Whitehead, Exelon, 1, 3; - Rajesh Geevarghese		
Answer	Yes	
Document Name		
Comment		
Exelon concurs with the comments submitted by the EEI.		
Likes 0		
Dislikes 0		
Response		
Deanna Carlson - Cowlitz County PUD -	5	
Answer	Yes	
Document Name		
Comment		
Deanna Carlson, Cowlitz County PUD No.	1, 5, 6/7/2023	
Likes 0		
Dislikes 0		
Response		
Wayne Sipperly - North American Genera	ator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF	
Answer	Yes	
Document Name		
Comment		
The NAGF supports the proposed PRC-019-3 implementation plan.		
Likes 0		
Dislikes 0		
Response		
Daniela Atanasovski - APS - Arizona Public Service Co 1		
Answer	Yes	

Document Name	
Comment	
None	
Likes 0	
Dislikes 0	
Response	
Casey Perry - PNM Resources - 1,3 - WE	cc
Answer	Yes
Document Name	
Comment	
PNM supports the implementation plan time	eline as proposed.
Likes 0	
Dislikes 0	
Response	
Kimberly Turco - Constellation - 6	
Kimberly Turco - Constellation - 6 Answer	Yes
	Yes
Answer	Yes
Answer Document Name Comment	Yes icity from the last protection study performed in order to align with historical work completed under PRC-019-
Answer Document Name Comment Constellation agrees with the 6 year period	icity from the last protection study performed in order to align with historical work completed under PRC-019-
Answer Document Name Comment Constellation agrees with the 6 year period 2	icity from the last protection study performed in order to align with historical work completed under PRC-019-
Answer Document Name Comment Constellation agrees with the 6 year period 2 Kimberly Turco on behalf of Constellation S	icity from the last protection study performed in order to align with historical work completed under PRC-019-
Answer Document Name Comment Constellation agrees with the 6 year period 2 Kimberly Turco on behalf of Constellation S Likes 0	icity from the last protection study performed in order to align with historical work completed under PRC-019-
Answer Document Name Comment Constellation agrees with the 6 year period 2 Kimberly Turco on behalf of Constellation S Likes 0 Dislikes 0	icity from the last protection study performed in order to align with historical work completed under PRC-019-
Answer Document Name Comment Constellation agrees with the 6 year period 2 Kimberly Turco on behalf of Constellation S Likes 0 Dislikes 0	icity from the last protection study performed in order to align with historical work completed under PRC-019-

Document Name	
Comment	
Constellation agrees with the 6 year periodi 2.	city from the last protection study performed in order to align with historical work completed under PRC-019-
Alison Mackellar on behalf of Constellation	Segments 5 and 6
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA	∖ - Not Applicable - NA - Not Applicable
Answer	Yes
Document Name	
Comment	
Upon review of the Applicability Section of F still needed. As an example, both 4.2.4 (Inv	
Dislikes 0	
Response	
Response	
Todd Bennett - Associated Electric Coop	perative, Inc 3, Group Name AECI
Answer	Yes
Document Name	
Comment	
AECI is supportive of the comments provide	ed by the NAGF.

Likes 0	
Dislikes 0	
Response	
	Behalf of: Frank Lee, Pacific Gas and Electric Company, 3, 1, 5; Marco Rios, Pacific Gas and Electric Gas and Electric Company, 3, 1, 5; - Michael Johnson, Group Name PG&E All Segments
Answer	Yes
Document Name	
Comment	
PG&E supports the Implementation Plan a	s proposed.
Likes 0	
Dislikes 0	
Response	
Thomas Foltz - AEP - 5	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jennie Wike - Jennie Wike On Behalf of (Tacoma, WA), 1, 4, 5, 6, 3; Terry Gifford	: Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities I, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike
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		
Nazra Gladu - Manitoba Hydro - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kevin Conway - Public Utility District No	. 1 of Pend Oreille County - 3 - WECC	
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	
Adrian Andreoiu - BC Hydro and Power	Authority - 1, Group Name BC Hydro
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	
Stephen Whaite - Stephen Whaite On Be Body Member and Proxies	half of: Lindsey Mannion, ReliabilityFirst , 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot
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	
Dave Krueger - SERC Reliability Corpora	ation - 10
Answer	Yes
Document Name	
Comment	
Likes 1	LaKenya Vannorman, N/A, Vannorman LaKenya
Dislikes 0	
Response	
Donna Wood - Tri-State G and T Associa	ation, Inc 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Anna Todd - Southern Indiana Gas and Electric Co 1,3,5,6 - RF	
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Stephen Stafford - Georgia Transmissior	Corporation - NA - Not Applicable - SERC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Harishkumar Subramani Vijay Kumar - In	dependent Electricity System Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jennifer Bray - Arizona Electric Power C	ooperative, Inc 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Joshua London - Eversource Energy - 1,	, Group Name Eversource	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Alan Kloster - Alan Kloster On Behalf of: 5, 1; Marcus Moor, Evergy, 3, 6, 5, 1; - Al	: Jennifer Flandermeyer, Evergy, 3, 6, 5, 1; Jeremy Harris, Evergy, 3, 6, 5, 1; Kevin Frick, Evergy, 3, 6, an Kloster	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Steven Taddeucci - NiSource - Northern		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Claudine Bates - Black Hills Corporation		
Answer	Yes	
Document Name		
Comment		

Likes 0		
Dislikes 0		
Response		
Sheila Suurmeier - Black Hills Corporatio	on - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Micah Runner - Black Hills Corporation -	1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Daniela Hammons - CenterPoint Energy Houston Electric, LLC - 1		
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	
Mohamed Derbas - Sempra - San Diego	Gas and Electric - 1
Answer	Yes
Document Name	
Comment	
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, 100 icipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
	lf of: Dennis Sismaet, Northern California Power Agency, 4, 6, 3, 5; Jeremy Lawson, Northern y Hostler, Northern California Power Agency, 4, 6, 3, 5; - James Mearns
Answer	Yes
Document Name	

Comment		
Likes 0		
Dislikes 0		
Response		
Patricia Lynch - NRG - NRG Energy, Inc.	- 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Jodirah Green - ACES Power Marketing -	- 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Dennis Chastain - Tennessee Valley Authority - 1,3,5,6 - SERC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Charles Yeung - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC, Group Name SRC 2023		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kennedy Meier - Electric Reliability Council of Texas, Inc 2		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC		
Answer		
Document Name		
Comment		
No Comment.		
Likes 0		
Dislikes 0		
Response		
Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott		
Answer		
Document Name		

Comment		
ITC - no Comment From response received from Standard Owners or SMEs		
Likes 0		
Dislikes 0		
Response		
Martin Sidor - NRG - NRG Energy, Inc 6		
Answer		
Document Name		
Comment		
According to the Initial Performance of Periodic Requirements within the implementation plan, existing entities shall comply within 66 calendar months from last performance for next test under V3. Additionally, if the timeframe for existing units to perform testing falls between the effective date of the standard and the compliance date, the applicable entity shall comply by the Compliance date. However, this is confusing as existing resources that have been tested close to the new effective date under Version 2 may exceed the 2 year compliance date for the next iteration of testing allowed (66 months). This is not clear. It would be better to start the compliance date unilaterally for existing and new applicable units under all requirements to avoid confusion. In this way, test results performed under the new requirements would also be properly reviewed by the Transmission Planner under R3 and R4.		
Likes 0		
Dislikes 0		
Response		
Michael Jones - National Grid USA - 1		
Answer		
Document Name		
Comment		
Additinal Comment: Please consider ensuring that the Facilities section is aligned with the BES definition.		
Likes 0		
Dislikes 0		
Response		