# **Comment Report**

There were 34 sets of responses, including comments from approximately 101 different people from approximately 85 companies representing 10 of the Industry Segments as shown in the table on the following pages.

# Questions

1. Do you agree with the proposed scope as described in the SAR? If you do not agree, or if you agree but have comments or suggestions for the project scope please provide your recommendation and explanation.

2. Provide any additional comments for the Standard Drafting Team to consider, if desired.

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
Midcontinent	Bobbi Welch	2	MRO,RF,SERC	ISO/RTO	Ali Miremadi	CAISO	2	WECC
ISO, Inc.				Council Standards Review Committee Project 2022-	Kennedy Meier	Electric Reliability Council of Texas, Inc.	2	Texas RE
				02	Helen Lainis	IESO	2	NPCC
				Footnote 13d SAR	Kathleen Goodman	ISO-NE	2	NPCC
					Bobbi Welch	MISO	2	RF
					Gregory Campoli	New York Independent System Operator	2	NPCC
					Elizabeth Davis	PJM	2	RF
					Charles Yeung	SPP	2	MRO
Tacoma Public Utilities	Jennie Wike	1,3,4,5,6	WECC	ECC Tacoma Power	Jennie Wike	Tacoma Public Utilities	1,3,4,5,6	WECC
(Tacoma, WA)					John Merrell	Tacoma Public Utilities (Tacoma, WA)	1	WECC
					John Nierenberg	Tacoma Public Utilities (Tacoma, WA)	3	WECC
					Hien Ho	Tacoma Public Utilities (Tacoma, WA)	4	WECC
					Terry Gifford	Tacoma Public Utilities (Tacoma, WA)	6	WECC
					Ozan Ferrin	Tacoma Public Utilities (Tacoma, WA)	5	WECC
MRO	Jou 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 Bill	S 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 Hathaway Energy - MidAmerican Energy Co.	1	MRO
Terry Harbour	MidAmerican Energy Company	1,3	MRO
Jamison Cawle	y 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 McCair	Omaha Public Power District	6	MRO
George E Brow	n 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					
Southern Company - Southern Company Services, Inc.	Pamela Frazier	1,3,5,6	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	1,2,3,4,5,6,7,8,9,10	5,7,8,9,10 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 Tonc	Michele Tondalo	United Illuminating Co.	1	NPCC
							Stephanie Ullah- Mazzuca	Orange and Rockland	1	NPCC			
								Quintin Lee	Eversource Energy	1	NPCC		
									Michael Ridolfino	Central Hudson Gas & Electric Corp.	1	NPCC	
					Randy Buswell	Vermont Electric Power Company	1	NPCC					
					James Grant	NYISO	2	NPCC					
					John Pearson	ISO New	2	NPCC					

	England, Inc.		
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
Western	Steven	10	WECC	Steve Rueckert	WECC	10	WECC
Electricity Coordinating Council	Rueckert			Phil O'Donnell	WECC	10	WECC

1. Do you agree with the proposed scope as described in the SAR? If you do not agree, or if you agree but have comments or suggestions for the project scope please provide your recommendation and explanation.

Bobbi Welch - Midcontinent ISO, Inc. - 2, Group Name ISO/RTO Council Standards Review Committee Project 2022-02 Modifications to TPL-001 Footnote 13d SAR

Answer	No
Document Name	2022-02_UCF_SAR (TPL-001-5.1 Footnote 13d)_IRC SRC_05-11-23_FINAL.docx

Comment

The **ISO/RTO Council Standards Review Committee ("SRC")**<sup>[1]</sup> acknowledges that its members are not Protection System owners. Therefore, our comments concerning project scope go to: (1) assurance that BES reliability will not decrease as a result of implementing this proposal and (2) clarity and flexibility.

# Assurance that BES reliability will be maintained

This proposal seeks to reduce the number of P5 contingencies studied under TPL-001 and thereby eliminates the requirement to initiate a corrective action plan for those contingencies that are unable to meet system performance requirements. Therefore, the SRC seeks assurance that this proposal will not reduce BES reliability. As control circuitry may include both monitored and non-monitored components, the overall Protection System design should ensure that the initiation of breaker failure protection is not disabled by a single component failure of the control circuitry which might be difficult to achieve when monitored components are excluded. Therefore, the exclusion of any non-redundant control circuitry components should be predicated on breaker failure protection remaining intact.

## **Clarity and flexibility**

Should this project move forward, the project scope should be clarified. Currently, Footnote 13d describes which non-redundant components of a Protection System are to be considered in the Planning Assessment when defining P5 contingencies. Footnote 13d does *not* dictate the corrective action plan to be implemented when performance expectations are not met (e.g., the addition of unnecessary complexity suggested in the SAR). There are multiple options to mitigate any consequences resulting from these contingencies.

In addition, the scope as written locks the SDT into implementing a pre-determined approach. The SRC recommends the Project Scope be revised to both clarify intent and provide the SDT with the flexibility to consider a range of potential solutions. One way to do this is to revise the parenthetical to more closely mirror the language in TPL-001-5.1, Footnotes 13b and 13c where the exception is clearly identified as shown below:

## Project Scope (see page 3)

Modify Footnote 13.d to expand the exclusion for single control circuitry (including auxiliary relays and lockout relays) associated with protective functions [from the dc supply through and including the trip coil(s) of the circuit breakers or other interrupting devices, required for Normal Clearing], to include any non-redundant components that are both monitored and reported at a Control Center provided breaker failure protection remains intact."

Finally, the <u>Technical Rationale</u> for TPL-001-5 must be updated to align with modifications to TPL-001, as page 9 currently includes the following assumption:

"Most, if not all, constituent parts of the control circuitry are generally unmonitored, may fail, and may remain undetected until periodic testing is conducted. ... Single control circuitry should be considered a non-redundant component of a Protection System given that Delayed Fault Clearing, including significantly delayed remote end or backup clearing, is expected when the non-redundant auxiliary or lockout relay device within the single control circuitry fails."

[1] For purposes of these comments, the IRC SRC includes the following entities: CAISO (with the exception of our response to question 1), ERCOT

(with the exception of our responses to que	stion 1), IESO, ISO-NE, MISO, NYISO, PJM and SPP.
Likes 0	
Dislikes 0	
Response	
Darcy O'Connell - California ISO - 2	
Answer	No
Document Name	
Comment	
The scope as written locks the SDT into imp intent and provide the SDT with the flexibilit	plementing a pre-determined approach. CAISO recommends the Project Scope be revised to both clarify y to consider a range of potential solutions.
In addition, the <u>Technical Rationale</u> for TPL assumption:	-001-5 must be updated to align with modifications to TPL-001, as page 9 currently includes the following
conducted Single control circuitry should	trol circuitry are generally unmonitored, may fail, and may remain undetected until periodic testing is I be considered a non-redundant component of a Protection System given that Delayed Fault Clearing, In backup clearing, is expected when the non-redundant auxiliary or lockout relay device within the single
Likes 0	
Dislikes 0	
Response	
Harishkumar Subramani Vijay Kumar - In	dependent Electricity System Operator - 2
Answer	No
Document Name	
Comment	
	of P5 contingencies studied under TPL-001 and thereby eliminates the requirement to initiate a corrective unable to meet system performance requirements.

Therefore, the proposed scope will reduce BES reliability. As control circuitry may include both monitored and non-monitored components, the overall Protection System design should ensure that the initiation of breaker failure protection is not disabled by a single component failure of the control circuitry which might be difficult to achieve when monitored components are excluded. Therefore, the exclusion of any non-redundant control circuitry components should be predicated on breaker failure protection remaining intact.

Finally, the SAR needs to be aligned with the assumption in the <u>Technical Rationale</u> for TPL-001-5 (page 9):

"Most, if not all, constituent parts of the control circuitry are generally unmonitored, may fail, and may remain undetected until periodic testing is conducted. ... Single control circuitry should be considered a non-redundant component of a Protection System given that Delayed Fault Clearing, including significantly delayed remote end or backup clearing, is expected when the non-redundant auxiliary or lockout relay device within the single control circuitry fails."

Likes 0	
Dislikes 0	
Response	
Kennedy Meier - Electric Reliability Cour	ıcil of Texas, Inc 2
Answer	No
Document Name	
Comment	

## Assurance that BES reliability will be maintained

This proposal may result in a reduction in the number of P5 contingencies studied under TPL-001 and an associated reduction in the identification of contingencies that are unable to meet system performance requirements. Therefore, ERCOT seeks assurance that this proposal will not reduce BES reliability.

## **Clarity and flexibility**

Should this project move forward, the project scope should be clarified. Currently, Footnote 13d describes non-redundant components of a Protection System that should be considered in the Planning Assessment when defining P5 contingencies. Footnote 13d does *not* dictate the corrective action plan to be implemented when performance expectations are not met (e.g., the addition of unnecessary complexity suggested in the SAR). There are multiple options to mitigate any consequences resulting from these contingencies.

In addition, the sc	ope as written would I	lock the SDT into imp	elementing a pre-dete	rmined approach. E	RCOT recomme	nds the Project Scop	e be revised
to							

a) allow the SDT to review the original intent of footnote 13d to ensure that intent is still applicable and is clearly conveyed, and

b) provide the SDT with the flexibility to consider a range of potential solutions based on the results of its review. As an example, one potential solution that the SDT might consider would be to clarify TPL-001-5.1, footnote 13d by revising the parenthetical in the footnote to more closely mirror the language used in the parentheticals in footnotes 13b and 13c.

Finally, the <u>Technical Rationale</u> for TPL-001-5 should be updated to align with any modifications made to TPL-001, as page 9 of the technical rationale currently includes the following assumption:

"[m]ost, if not all, constituent parts of the control circuitry are generally unmonitored, may fail, and may remain undetected until periodic testing is conducted. . . . Single control circuitry should be considered a non-redundant component of a Protection System given that Delayed Fault Clearing, including significantly delayed remote end or backup clearing, is expected when the non-redundant auxiliary or lockout relay device within the single control circuitry fails."

Likes 0	
Dislikes 0	
Response	
Srikanth Chennupati - Entergy - Entergy	Transmission - 1,3,5,6 - SERC
Answer	Yes
Document Name	
Comment	
	ovide Applicable Entities with at least 3 - 5 Years' timeframe to plan and implement necessary changes in the I – Steady State & Stability Performance Footnotes (Planning Events and Extreme Events) footnote 13 d
Likes 0	
Dislikes 0	
Response	
Jennie Wike - Tacoma Public Utilities (Ta	acoma, WA) - 1,3,4,5,6 - WECC, Group Name Tacoma Power
Answer	Yes
Document Name	
Comment	
	larification to Footnote 13d. For example, it may be helpful to specify "trip coil circuit" in the footnote so that cuit. However, Tacoma Power does not recommend expanding the Footnote 13d monitoring exception to the
Below is a suggestion for the SDT on how t	his clarification could be incorporated into the footnote:

d. A single control circuitry (including auxiliary relays and lockout relays) associated with protective functions, from the dc supply through and including the trip coil(s) of the circuit breakers or other interrupting devices, required for Normal Clearing (the trip coil **circuit** may be excluded if it is both monitored and reported at a Control Center).

Likes 0	
Dislikes 0	
Response	
Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Grou	up Name MRO NSRF
Answer	Yes
Document Name	
Comment	
Overall, the MRO NERC Standards Review 13d.	Forum (MRO NSRF) agrees with the intent of the SAR; i.e. to expand the exclusion criteria under Footnote
are independent from the circuits that initiat associated DC trip circuit because such a fa protection scheme, but instead a part of the long as the circuit that initiates breaker failu is independent of the relay trip circuit, there	AR be written to consider alternative options to achieve this same objective. To the extent the trip coil circuits e breaker failure, it is unnecessary to evaluate a P5 contingency for a trip coil failure or failure of the ailure would not prohibit the initiation of breaker failure. Technically a trip coil is not part of a relay or a relay e circuit breaker itself. Furthermore, the DC trip circuitry can be considered an extension of the breaker so re is completely independent. Given that there are redundant relays and the breaker failure initiation circuit is no reason for a single trip coil or associated DC circuit to trigger the evaluation of a P5 contingency, nder the P4 contingency that must be evaluated for any type of potential failure of the circuit breaker to trip
non-redundant trip circuit would leave a gap Therefore, monitoring is not the best criteria	charger failure where there is some time to respond until the batteries are fully discharged, a failure of a o in protection until such time as field crews could be dispatched to diagnose and correct the problem. a from which to grant an exemption. Alternatively, as long as the DC breaker failure initiation circuit is edundant DC trip circuit and associated trip coil should not trigger a P5 contingency.
Likes 0	
Dislikes 0	
Response	
Andy Fuhrman - Minnkota Power Cooper	rative Inc 1,5 - MRO
Answer	Yes
Document Name	
Comment	

No comments.
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Likes 0

Dislikes 0		
Response		
Duane Franke - Manitoba Hydro - 1,3,5,6 - MRO		
Answer	Yes	
Document Name		
Comment		
Manitoba Hydro (MH) agrees with the scope 13 under NERC Project 2015-10 Single Poi	e of the SAR which aligns with what we have proposed back in 2018 when changes were made to footnote nts of Failure TPL-001.	
Likes 0		
Dislikes 0		
Response		
Michelle Amarantos - APS - Arizona Publ	lic Service Co 1,3,5,6	
Answer	Yes	
Document Name		
Comment		
AZPS agrees with the proposed scope of th	e SAR.	
AZPS supports the following comments that	t were submitted by EEI on behalf of their members:	
The issue identified in this SAR addresses an unforeseen problem within Footnote 13 that was originally developed in response to FERC Order 754. While the Project 2015-10 Standards Drafting Team (SDT) developed improvements to the TPL-001 Reliability Standard that will resolve many single point of failure issues, it placed unintended limits on entities. For example, Footnote 13d provides exception language for a single trip coil that is monitored and reported, it did not allow entities to also provide an exception for the wiring from the control house to the trip coil, which is also monitored and reported with that trip coil monitoring alarm. Additionally, the proposed changes that would be required by registered entities as the result of Footnote 13d, would be costly, inconsistent with the other parts of Footnote 13, and are unjustifiable considering the other exception language already allowed in Footnote 13 parts a, b & c.		
Likes 0		
Dislikes 0		
Response		
Ben Hammer - Western Area Power Adm	inistration - 1,6 - MRO,WECC	
Answer	Yes	
Document Name		

Comment	
WAPA agrees with the scope of the SAR ar drafting process.	nd encourages the proposed addition to the existing Project 2022-02 Modifications to TPL-001 and MOD-032
Likes 0	
Dislikes 0	
Response	
Diana Aguas - CenterPoint Energy Houst	ton Electric, LLC - 1 - Texas RE
Answer	Yes
Document Name	
Comment	
CenterPoint Energy Houston Electric, LLC ( Electric Institute (EEI).	CEHE) agrees with the proposed scope of the SAR and supports the comments as submitted by the Edison
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	
Leslie Hamby - Southern Indiana Gas and	d Electric Co 3,5,6 - RF
Answer	Yes
Document Name	

Comment	
Southern Indiana Gas & Electric Company as submitted by the Edison Electric Institute	(SIGE) agrees with the proposed scope of the TPL-001-5.1 Footnote 13.d SAR and supports the comments e (EEI).
Likes 0	
Dislikes 0	
Response	
Joseph Amato - Berkshire Hathaway Ene	ergy - MidAmerican Energy Co 1,3
Answer	Yes
Document Name	
Comment	
MidAmerican supports the MRO NSRF com	iments.
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 scope of	the SAR.
Likes 0	
Dislikes 0	
Response	
David Jendras Sr - Ameren - Ameren Ser	rvices - 1,3,6
Answer	Yes
Document Name	
Comment	

Ameren agrees with the scope of the SAR and agrees that a definition for DERs should be included.		
Likes 0		
Dislikes 0		
Response		
Alan Kloster - Evergy - 1,3,5,6 - MRO		
Answer	Yes	
Document Name		
Comment		
Evergy supports and incorporates by refere	nce the comments of the Edison Electric Institute (EEI) for question #1.	
Likes 0		
Dislikes 0		
Response		
Mark Gray - Edison Electric Institute - NA	A - Not Applicable - NA - Not Applicable	
Answer	Yes	
Document Name		
Comment		
developed in response to FERC Order 754. Reliability Standard that will resolve many s exception language for a single trip coil that house to the trip coil, which is also monitore required by registered entities as the result	R. The issue identified in this SAR addresses an unforeseen problem within Footnote 13 that was originally While the Project 2015-10 Standards Drafting Team (SDT) developed improvements to the TPL-001 ingle point of failure issues, it placed unintended limits on entities. For example, Footnote 13d provides is monitored and reported, it did not allow entities to also provide an exception for the wiring from the control ed and reported with that trip coil monitoring alarm. Additionally, the proposed changes that would be of Footnote 13d, would be costly, inconsistent with the other parts of Footnote 13, and are unjustifiable lineady allowed in Footnote 13 parts a, b & c.	
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	Yes	
Document Name		

Comment	
NPCC RSC agrees and supports the propo	sed scope as described in the SAR.
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	Yes
Document Name	
Comment	
consistent with Protection System design a	e Footnote 13.d exception to apply to any monitored and reported components of the control circuitry to be nd operational functionality will allow the DP, GO, and TO to achieve the required transmission performance efficient manner." is unclear since TPL-001 is only applicable to the TP and PC.
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity Co	oordinating Council - 10, Group Name WECC
Answer	Yes
Document Name	
Comment	
	or the need. The proposal is to expand the monitoring exception to the entire DC trip Circuit and not just the e DC source so it doessn't seem to make sence to omit the circuitry between the Source and the tirp coil.
Likes 0	
Dislikes 0	
Response	
Daniel Gacek - Exelon - 1,3	
Answer	Yes
Document Name	

Comment		
Exelon supports the scope of the SAR and concurs with the comments submitted by the EEI.		
Likes 0		
Dislikes 0		
Response		
Stacy Engelmann - City of College Statio	n - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thomas Foltz - AEP - 3,5,6		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Donna Wood - Tri-State G and T Association, Inc 1,3,5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		

Response			
Gary Trezza - Long Island Power Authori	Gary Trezza - Long Island Power Authority - 1 - NPCC		
Answer	Yes		
Document Name			
Comment			
Likes 0			
Dislikes 0			
Response			
Rachel Coyne - Texas Reliability Entity, I	nc 10		
Answer	Yes		
Document Name			
Comment			
Likes 0			
Dislikes 0			
Response			
Allie Gavin - International Transmission	Company Holdings Corporation - 1 - MRO,RF		
Answer	Yes		
Document Name			
Comment			
Likes 0			
Dislikes 0			
Response			
Lori Frisk - Allete - Minnesota Power, Inc	1		
Answer	Yes		
Document Name			

Comment		
Likes 0		
Dislikes 0		
Response		
Andrea Jessup - Bonneville Power Admi	nistration - 1,3,5,6 - WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Chantal Mazza - Hydro-Quebec (HQ) - 1 -	NPCC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Alain Mukama - Hydro One Networks, Ind	c 1,3	
Answer		
Document Name		
Comment		
Currently this SAR is focused on TPL-001-5 which is not applicable to Hydro One.		
Likes 0		
Dislikes 0		

R	e	S	р	ο	n	S	е	
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2. Provide any additional comments for the Standard Drafting Team to consider, if desired.		
Alain Mukama - Hydro One Networks, Inc	1,3	
Answer		
Document Name		
Comment		
N/A		
Likes 0		
Dislikes 0		
Response		
Daniel Gacek - Exelon - 1,3		
Answer		
Document Name		
Comment		
Exelon supports the concerns expressed in	the comments submitted by the EEI.	
Likes 0		
Dislikes 0		
Response		
Steven Rueckert - Western Electricity Co	ordinating Council - 10, Group Name WECC	
Answer		
Document Name		
Comment		
No additional Comments.		
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	
Document Name	
Comment	
No further comments	
Likes 0	
Dislikes 0	
Response	
Marc Sedor - Seminole Electric Cooperat	ive, Inc 1,3,4,5,6
Answer	
Document Name	
Comment	
TPL-001-5.1 IRPWG SAR	
Recommend that a MW limit is included for definition for generation facilities?	the size of the equipment that will be required to be modeled. Will it follow the 75MW limit listed in the BES
TPL-001-5.1 SPIDERWG SAR	
Recommend defining a MW limit. Will it follo	w the 75MW limit listed in the BES definition for generation facilities?
	anning Assessments should include DERs that can potentially impact Transmission System performance ning a MW limit as it pertains to the generation facilities size.
MOD-032-1 SAR	
Recommend SAR define what is retail scale	and utility scale. How low of a MW value is the team looking at with the retail scale reference, e.g., 75 MW?
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA	- Not Applicable - NA - Not Applicable
Answer	
Document Name	
Comment	

While EEI supports the Scope of this SAR, we note that the technical expertise necessary to effectively address the concerns identified require protection system and associated control circuitry expertise. Unfortunately, the current proposed makeup of the Project 2022-02 SDT was developed to address different issues. Although we agree that the proposed makeup of SDT members is correct for the intended scope of the existing SARs, additional SDT members with the necessary expertise should be added to this SDT or this SAR should be separated out into a separate NERC project.

TPL-001-5.1 IRPWB SAR - Planning Coordinators, Transmission Planners, and Generator Owners of inverter-based resources

**TPL-001-5.1 SPIDERWG SAR** – Planning Coordinators and Transmission Planners, i.e., the applicable entities for this standard. Additionally, Distribution Providers, Generator Owners, and DER aggregators participating in markets- i.e., not an applicable entity to this standard, would be useful to include.

**MOD-032-1 SAR** - Transmission Planner, Planning Coordinator, Distribution Provider While not a Functional Entity per the NERC Functional Model, the "MOD-032 Designees" that are designated by the ERO to develop interconnection-wide base cases (i.e., the Regional Entities), will also be affected by these changes and should be considered for appointment to the Standard Drafting Team.

Likes 0	
Dislikes 0	
Response	
Kennedy Meier - Electric Reliability Cour	icil of Texas, Inc 2
Answer	
Document Name	
Comment	
For this response, ERCOT joins the comme own.	ents submitted by the ISO/RTO Council (IRC) Standards Review Committee (SRC) and adopts them as its
Likes 0	
Dislikes 0	
Response	
Alan Kloster - Evergy - 1,3,5,6 - MRO	
Answer	
Document Name	
Comment	
Evergy supports and incorporates by refere	nce the comments of the Edison Electric Institute for question #2.
Likes 0	
Dislikes 0	

Response	
Wayne Sipperly - North American Genera	ator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF
Answer	
Document Name	
Comment	
The NAGF has no additional comments.	
Likes 0	
Dislikes 0	
Response	
Darcy O'Connell - California ISO - 2	
Answer	
Document Name	
Comment	
CAISO agrees with comments submitted by comments.	the ISO/RTO Counsel (IRC) Standards Review Committee with exception of Q1, where CAISO provided
Likes 0	
Dislikes 0	
Response	
Bobbi Welch - Midcontinent ISO, Inc 2, Footnote 13d SAR	Group Name ISO/RTO Council Standards Review Committee Project 2022-02 Modifications to TPL-001
Answer	
Document Name	
Comment	
The SRC supports having the same SDT ac the efficiency of the standards development	dress this SAR as part of existing <b>Project 2022-02: Modifications to TPL-001-5 and MOD-032</b> to enhance process.
Likes 0	
Dislikes 0	

Response	
Joseph Amato - Berkshire Hathaway Ene	ergy - MidAmerican Energy Co 1,3
Answer	
Document Name	
Comment	
MidAmerican supports the MRO NSRF com	iments.
Likes 0	
Dislikes 0	
Response	
Leslie Hamby - Southern Indiana Gas and	d Electric Co 3,5,6 - RF
Answer	
Document Name	
Comment	
While Southern Indiana Gas & Electric Com relay; this change could force upgrades to p Edison Electric Institute (EEI).	pany (SIGE) supports the proposed scope, trip coil monitoring is typically done through microprocessor protection systems at an unknown scale. Additionally, SIGE supports the comments as submitted by the
Likes 0	
Dislikes 0	
Response	
Andy Thomas - Duke Energy - 1,3,5,6 - S	ERC,RF
Answer	
Document Name	
Comment	
None.	
Likes 0	
Dislikes 0	
Response	

Diana Aguas - CenterPoint Energy Houst	ton Electric, LLC - 1 - Texas RE		
Answer			
Document Name			
Comment			
CEHE supports the additional comments su to be included in the Standards Drafting tea	ibmitted by the Edison Electric Institute (EEI) regarding the need for technical experts in protection systems m for this project.		
Likes 0			
Dislikes 0			
Response			
Ben Hammer - Western Area Power Adm	inistration - 1,6 - MRO,WECC		
Answer			
Document Name	2022-02_Unoffical Comment Form _SAR (TPL-001-5.1)_WAPA.docx		
Comment			
WAPA suggests that the revised Footnote 13d language proposed in the SAR is unwieldy and difficult to apply. [Proposed in SAR, page 3 of 8] d. A single control circuitry (including auxiliary relays and lockout relays) associated with protective functions, from the dc supply through and including the trip coil(s) of the circuit breakers or other interrupting devices, required for Normal Clearing (any non-redundant components of the control circuitry may be excluded if they are both monitored and reported at a Control Center).; START STRIKETHROUGH (the trip coil may be			
excluded if it is both monitored and reported After all, the intent of the SAR is to facilitate	an exception for control circuity that contains non-redundant components if the control circuitry is monitored h non-redundant component in the control circuitry. Therefore, WAPA proposes simpler language to be the		
d. A single control circuitry (including auxilia	rry relays and lockout relays) associated with protective functions, from the dc supply through and including r interrupting devices, required for Normal Clearing <b>(an exception is a single control circuitry that is both</b> <b>ter);</b>		
START STRIKETHROUGH (the trip coil ma	ay be excluded if it is both monitored and reported at a Control Center). END STIKETHROUGH		
This proposed language omits ambiguity an	id is more consistent with the prior subparts of Footnote 13.		
Likes 0			
Dislikes 0			
Response			

Duane Franke - Manitoba Hydro - 1,3,5,6	- MRO
Answer	
Document Name	
Comment	
Manitoba Hydro would like to recommend th	ne following rephrasing to footnote 13 of Table 1 (new text in red, text to be removed was deleted).
13. For purposes of this standard, non-redu	indant components of a Protection System to consider are as follows:
	<b>tribution circuits</b> associated with protective functions required for Normal Clearing (an exception is a single <b>ircuits</b> that are both monitored and reported at a Control Center for both low voltage and open circuit);
	tective functions, from the protection relay through and including the trip coil(s) of the circuit breakers or nal Clearing (the trip <b>circuit and</b> coil may be excluded if both <b>are</b> monitored and reported at a Control
e. A single auxiliary tripping or lockout r	elay associated with protection tripping.
Rationale:	
	w exceptions for DC Distribution and components of the trip circuit (if monitored) which are low probability ose to place auxiliary trip relays and lockout relays on their own line to make it 100% clear that they must be component of a Protection System.
Likes 0	
Dislikes 0	
Response	
Andy Fuhrman - Minnkota Power Cooper	rative Inc 1,5 - MRO
Answer	
Document Name	
Comment	
MPC supports comments submitted by the	MRO NERC Standards Review Forum (NSRF).
Likes 0	
Dislikes 0	
Response	

Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Grou	Ip Name MRO NSRF
Answer	
Document Name	
Comment	
	(MRO NSRF) supports the proposed scope of this SAR and supports combining this SAR with existing 5 and MOD-032 to enhance the efficiency of the standards development process.
	nay reach industry consensus more quickly than the balance of the project, SRC recommends the SDT parate from that described in the original SARs.
System expertise on the SDT, as owners of DP and/or GO representation on the SDT, or	de Transmission Owner, Generator Owner and/or Distribution Provider representatives with Protection Protection System control circuitry. Although several of the prior SARs for Project 2022-02 sought to include only the Footnote 13d SAR mentions the need to include a Transmission Owner (TO) representative (page sider the need to expand the team to include adequate representation.
<ul> <li>TPL-001 SPIDERWG SAR: Plannin Distribution Providers, Generator O useful to include.</li> <li>MOD-032 SAR: Transmission Plannin TPL-001-5 Footnote 13d SAR: Base</li> </ul>	Coordinators, Transmission Planners, and Generator Owners of inverter-based resources. In Coordinators and Transmission Planners, i.e. the applicable entities for this standard. Additionally, wners, and DER aggregators participating in markets- i.e. not an applicable entity to this standard, would be her, Planning Coordinator, Distribution Provider. ed on the scope of this SAR there would not be any changes to the applicability of TPL-001-5.1, which is itor and Transmission Planner. However, it should be noted that Footnote 13 directly affects Protection nsibility of the DP, GO, and TO.
Likes 0	
Dislikes 0	
Response	
Srikanth Chennupati - Entergy - Entergy	Transmission - 1,3,5,6 - SERC
Answer	
Document Name	
Comment	
None	
Likes 0	
Dislikes 0	

R	e	S	p	ο	n	S	е	
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