Comment Report

Project Name: 2022-02 Modifications to TPL-001 and MOD-032 | Draft 2 - MOD-032-2

Comment Period Start Date: 10/6/2023 Comment Period End Date: 11/20/2023

Associated Ballots: 2022-02 Modifications to TPL-001 and MOD-032 | Draft 1 Implementation Plan AB 2 OT

2022-02 Modifications to TPL-001 and MOD-032 | Draft 1 MOD-032-2 AB 2 ST

2022-02 Modifications to TPL-001 and MOD-032 | Non-Binding Poll MOD-032-2 AB 2 NB

There were 71 sets of responses, including comments from approximately 185 different people from approximately 114 companies representing 10 of the Industry Segments as shown in the table on the following pages.

Questions

- 1. Given the explanation in the Technical Rationale and response to industry comment, do you agree with the proposed definition for DER?
- 2. Are there any other clarifications needed in the Technical Rationale?
- 3. Do you agree the modifications made in MOD-032-2 will improve system modeling and reliability?
- 4. Do you agree the modifications made in MOD-032-2 are cost effective?
- 5. Do you agree with the Implementation Plan for revised MOD-032-2?
- 6. 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
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
MRO	Anna Martinson	1,2,3,4,5,6	MRO	MRO Group	Shonda McCain	Omaha Public Power District (OPPD)	1,3,5,6	MRO
					Michael Brytowski	Great River Energy	1,3,5,6	MRO
					Jamison Cawley	Nebraska Public Power District	1,3,5	MRO
					Jay Sethi	Manitoba Hydro (MH)	1,3,5,6	MRO
					Jaimin Patal	Saskatchewan Power Corporation (SPC)	1	MRO
					Kimberly Bentley	Western Area Power Adminstration	1,6	MRO
					Marc Gomez	Southwestern Power Administration (SWPA)	1	MRO
					Fred Meyer	Algonquin Power Co.	3	MRO
					George Brown	Pattern Operators LP	5	MRO

					Larry Heckert	Alliant Energy (ALTE)	4	MRO
					Terry Harbour	MidAmerican Energy Company (MEC)	1,3	MRO
					Bryan Sherrow	Board Of Public Utilities (BPU)	1	MRO
					Seth Shoemaker	Muscatine Power & Water	1,3,5,6	MRO
					Bobbi Welch	Midcontinent ISO, Inc.	2	MRO
					Michael Ayotte	ITC Holdings	1	MRO
Public Utility District No. 1 of Chelan County	Anne Kronshage	6		Public Utility District No. 1 of Chelan County -	Anne Kronshage	Public Utility District No. 1 of Chelan County	6	WECC
				Voting Group	Diane Landry	Public Utility District No. 1 of Chelan County	1	WECC
					Rebecca Zahler	Public Utility District No. 1 of Chelan County	5	WECC
					Joyce Gundry	Public Utility District No. 1 of Chelan County	3	WECC
Midcontinent	Bobbi Welch	2	MRO,RF,SERC	ISO/RTO	Ali Miremadi	CAISO	2	WECC
ISO, Inc.				Council Standards Review Committee (IRC SRC)	Kennedy Meier	Electric Reliability Council of Texas, Inc.	2	Texas RE
				2022-02 Modifications	John Pearson	ISO New England, Inc.	2	NPCC
				to MOD-032 Draft 2	Bobbi Welch	MISO	2	RF
					Gregory Campoli	New York Independent System Operator	2	NPCC
					Elizabeth Davis	PJM	2	RF

					Charles Yeung	SPP	2	MRO
WEC Energy Group, Inc.	Christine Kane	3		WEC Energy Group	Christine Kane	WEC Energy Group	3	RF
					Matthew Beilfuss	WEC Energy Group, Inc.	4	RF
					Clarice Zellmer	WEC Energy Group, Inc.	5	RF
					David Boeshaar	WEC Energy Group, Inc.	6	RF
Jennie Wike	Jennie Wike		WECC	Tacoma Power	Jennie Wike	Tacoma Public Utilities	1,3,4,5,6	WECC
					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
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
					Nick Fogleman	Prairie Power, Inc.	1,3	SERC
					Scott Brame	North Carolina Electric Membership Corporation	3,4,5	SERC
					Kris Carper	Arizona Electric Power Cooperative, Inc.	1	WECC
					Jason Procuniar	Buckeye Power, Inc.	4	RF
					Kevin Lyons	Central Iowa Power Cooperative	1	MRO

					Amber Skillern	East Kentucky Power Cooperative	1	SERC
					Andy Fuhrman	Minnkota Power Cooperative, Inc.	1	MRO
					Bill Pezalla	Old Dominion Electric Cooperative	3,4	SERC
Eversource Energy	Joshua London	1		Eversource	Joshua London	Eversource Energy	1	NPCC
					Vicki O'Leary	Eversource Energy	3	NPCC
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
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	6	SERC

						Company Generation		
					Leslie Burke	Southern Company - Southern Company Generation	5	SERC
Northeast Power Coordinating Council	Ruida Shu	1,2,3,4,5,6,7,8,9,10	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 Tondalo	United Illuminating Co.	1	NPCC
					Stephanie Ullah-Mazzuca	Orange and Rockland	1	NPCC
					Michael Ridolfino	Central Hudson Gas & Electric Corp.	1	NPCC
					Randy Buswell	Vermont Electric Power Company	1	NPCC
					James Grant	NYISO	2	NPCC
					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
				Joshua London	Eversource Energy	1	NPCC
Ryan Strom	Ryan Strom	RF	Buckeye Power Group	Carl Spaetzel	Buckeye Power, Inc.	3	RF
				Jason Procuniar	Buckeye Power, Inc.	4	RF
				Kevin Zemanek	Buckeye Power, Inc.	5	RF

Scott Brame	Scott Brame		SERC	NCEMC	Richard McCall	North Carolina Electric Membership Corporation	4	SERC
					Reid Cashion	North Carolina Electric Membership Corporation	5	SERC
					Chris Dimisa	North Carolina Electric Membership Corporation	3	SERC
Dominion - Dominion Resources, Inc.	Sean Bodkin	6		Dominion	Connie Lowe	Dominion - Dominion Resources, Inc.	3	NA - Not Applicable
					Lou Oberski	Dominion - Dominion Resources, Inc.	5	NA - Not Applicable
					Larry Nash	Dominion - Dominion Virginia Power	1	NA - Not Applicable
					Rachel Snead	Dominion - Dominion Resources, Inc.	5	NA - Not Applicable
Shannon Mickens	Shannon Mickens		MRO,SPP RE,WECC	SPP RTO	Shannon Mickens	Southwest Power Pool Inc.	2	MRO
					Sheri Maxey	Southwest Power Pool Inc.	2	MRO
					Mia Wilson	Southwest Power Pool Inc.	2	MRO
					Mason Favazza	Southwest Power Pool Inc.	2	MRO
					Scott Jordan	Southwest Power Pool Inc.	2	MRO
					Dee Edmondson	Southwest Power Pool Inc.	2	MRO

					Jim Williams	Southwest Power Pool Inc.	2	MRO
					Joshua Phillips	Southwest Power Pool, Inc. (RTO)	2	MRO
					Eddie Watson	Southwest Power Pool Inc.	2	MRO
Stephen Whaite	Stephen Whaite		RF	ReliabilityFirst Ballot Body	Lindsey Mannion	ReliabilityFirst	10	RF
				Member and Proxies	Stephen Whaite	ReliabilityFirst	10	RF
Western	Steven	10		WECC Entity	Steve Rueckert	WECC	10	WECC
Electricity Coordinating Council	Rueckert			Monitoring	Phil O'Donnell	WECC	10	WECC
Tim Kelley	Tim Kelley		WECC	SMUD and BANC	Nicole Looney	Sacramento Municipal Utility District	3	WECC
					Charles Norton	Sacramento Municipal Utility District	6	WECC
					Wei Shao	Sacramento Municipal Utility District	1	WECC
					Foung Mua	Sacramento Municipal Utility District	4	WECC
					Nicole Goi	Sacramento Municipal Utility District	5	WECC
					Kevin Smith	Balancing Authority of Northern California	1	WECC

1. Given the explanation in the Technical	Rationale and response to industry comment, do you agree with the proposed definition for DER?
Mark Garza - FirstEnergy - FirstEnergy C	orporation - 4, Group Name FE Voter
Answer	No
Document Name	
Comment	
FirstEnergy supports EEI's comments which	h state:
	R definition within this NERC Reliability Standards project. The impact of this definition will have far ct. To address this issue, we suggest that a separate NERC Reliability Standards project be developed to
We additionally do not agree or support the DERs that fall outside of the NERC registration	notion that from a NERC Reliability Standard compliance standpoint, entities should be held accountable for tion criteria.
Likes 0	
Dislikes 0	
Response	
Donald Lock - Talen Generation, LLC - 5	
Answer	No
Document Name	
Comment	
single project working within the confines of projects that are either directly, or indirectly	on for DER, nor do we agree that the definition for the term DER should be defined by the drafting team of that project as set forth by the Standard Drafting Process. We are concerned with the proliferation of NERC, related to DERs and the potential consequences of the proposed DER definition. A definition that impacts iside the scope of any individual standard and consider the impact to all of the affected NERC Reliability
We have for example a GO/GOP-registered TO. This 2.5 GW generation facility is clear definition, depending on how one interprets	I plant that feeds a DP-registered data center in behind-the-meter fashion, i.e. upstream of the POI to the rly not a Distributed Energy Resource, yet it seems to be included under the currently proposed DER the term, "parallel operation."
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 does not agree with the	e proposed definition for DER for the reasons stated by both EEI and the MRO NSRF.
Likes 0	
Dislikes 0	
Response	
Donna Wood - Tri-State G and T Associa	tion, Inc 1
Answer	No
Document Name	
Comment	
Tri-State Generation and Transmission sup	ports the MRO NSRF Comments.
Likes 0	
Dislikes 0	
Response	
Anna Martinson - MRO - 1,2,3,4,5,6 - MRO	D, Group Name MRO Group
Answer	No
Document Name	
Comment	
be defined solely by this Standard Drafting	sed definition for DER; further, the MRO NSRF does not believe that the definition for the term DER should Team within the parameters of Project 2022-02. With the proliferation of NERC projects that are either NSRF contends that a definition, for a term such as DER, which is a broadly utilized term that impacts a separate project.

Additionally, MRO NSRF has concerns that the proposed definition for DER may fall outside the purview of NERC Reliability Standards as allowed for by Section 215(a)(1) of the Federal Power Act ("The term [bulk-power system] does not include facilities used in the local distribution of electric energy.").

Likes 1	Lincoln Electric System, 5, Millard Brittany
Dislikes 0	

Response

SERC
No
NAGF does not agree with the proposed definition for DER, nor do we agree that the definition for the term of single project working within the confines of that project as set forth by the Standard Drafting proliferation of NERC projects that are either directly, or indirectly, related to DERs and the potential ion. A definition that impacts multiple standards should be developed outside the scope of any individual the affected NERC Reliability standards.
- MRO
No
em" instead of "Bulk Electric System" ting Real Power to the BPS and offsetting Real Power load.
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·
ting Real Power to the BPS and offsetting Real Power load. es connected to the Distribution Provider's system that are capable of exporting Real Power or offsetting Real
ting Real Power to the BPS and offsetting Real Power load. es connected to the Distribution Provider's system that are capable of exporting Real Power or offsetting Real
ting Real Power to the BPS and offsetting Real Power load. es connected to the Distribution Provider's system that are capable of exporting Real Power or offsetting Real
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ting Real Power to the BPS and offsetting Real Power load. es connected to the Distribution Provider's system that are capable of exporting Real Power or offsetting Real
ting Real Power to the BPS and offsetting Real Power load. es connected to the Distribution Provider's system that are capable of exporting Real Power or offsetting Real on with the Bulk Power System.

Comment	
Having two different defintions for Distribution threshold for what constitutes a DER.	on Provider makes the scope confusing. The definition is too broad and we believe that there needs to be
Likes 0	
Dislikes 0	
Response	
Kimberly Turco - Constellation - 6	
Answer	No
Document Name	
Comment	
	is going to include every DER or there will be a threshold as there are several small projects that would be NERC mandated modeling and testing requirement when their impact to the BES is marginal.
Likes 0	
Dislikes 0	
Response	
Diana Aguas - CenterPoint Energy Hous	ton Electric, LLC - 1 - Texas RE
Answer	No
Document Name	
Comment	
CenterPoint Energy Houston Electric, LLC (CEHE) does not support the development of an additional NERC Reliability Standard to define DER. CEHE finds the proposed revisions to MOD-032-2, too prescriptive and recommends that data reporting requirements for DERs listed in Attachment 1 be determined by the Planning Coordinator, in coordination with the Transmission Planner.	
Likes 0	
Dislikes 0	
Response	

Dwanique Spiller - Berkshire Hathaway - NV Energy - 5		
Answer	No	
Document Name		
Comment		
NV ENERGY does not agree with the proposed definition for DER; further, NV Energy does not believe that the definition for the term DER should be defined solely by this Standard Drafting Team within the parameters of Project 2022-02. With the proliferation of NERC projects that are either directly, or indirectly, related to DERs, NV ENERGY contends that a definition, for a term such as DER, which is a broadly utilized term that impacts multiple standards, should be developed in a separate project.		
Additionally, NV ENERGY has concerns that the proposed definition for DER may fall outside the purview of NERC Reliability Standards as allowed for by Section 215(a)(1) of the Federal Power Act ("The term [bulk-power system] does not include facilities used in the local distribution of electric energy.").		
Likes 0		
Dislikes 0		
Response		
Ryan Strom - Ryan Strom On Behalf of: Carl Spaetzel, Buckeye Power, Inc., 4, 3, 5; Jason Procuniar, Buckeye Power, Inc., 4, 3, 5; Kevin Zemanek, Buckeye Power, Inc., 4, 3, 5; - Ryan Strom, Group Name Buckeye Power Group		
Answer	No	
Document Name		
Comment		
Buckeye Power, Inc. supports the comment	s of ACES:	
We at ACES applaud the attempt made by the SDT to clearly define what is by nature a nebulous concept; however, we feel that the current definition is overly broad and will create an insurmountable compliance obstacle.		
We have an ongoing concern regarding the level upon which this will require DPs to collect DER data interconnected to distribution systems. The proposed draft establishes a zero MVA threshold for the collection of all DER data "in non-isolated parallel operation with the Bulk Power System". Per the Technical Rationale, this includes each and every residential solar and commercial rooftop solar customer on the DP's systems. This is a major		

concern given the extent it may go to exhausting the resources of our Members for the collection of DER data which may not have a material impact to the reliability of the BES.

Additionally, there is a seemingly interchangeable use of the terms Distributed Energy Resource (DER) and Inverter Based Resource (IBR) to describe the same types of assets. It is our opinion that a singular definition should be developed to define these resource types. Given the currently proposed changes to the NERC Rules of Procedure (specifically Appendices 5A and 5B), we believe that the term IBR should be utilized in lieu of DER. Moreover, it is our opinion that the newly proposed GO-IBR and GOP-IBR registrations should be utilized when developing MOD-032-2. In short, we believe that the NERC registration criteria are well reasoned and were intentionally developed to only include those entities and/or resources that could have a material impact to the BES.

		t the proposed MOD-032-2 Reliability Standard be modified to include a non-zero MVA threshold. We believe ct data from NERC registered entities.
Likes 0		
Dislikes 0		
Response		
Ruchi Shah - AES - AES	Corporation - 5	
Answer		No
Document Name		
Comment		
However, with the introduction where the term DER is cuite definition of DER that is not because the second	ction of a new defi rrently utilized. AE ot specific to MOD	od Drafting Team's research into the various DER definitions adopted across the industry and regions. Inition from NERC, this will create additional confusion for entities, especially those that operate in regions ES Clean Energy recommends that the Standard Drafting Team take an approach of proposing a broader 0-032 and will be applicable to other on-going DER related standard projects before moving forward with Project 2020-06 where definitions of IBRs were proposed for industry feedback.
Likes 0		
Dislikes 0		
Response		
Kacie Fischer - Kacie Fis	scher On Behalf	of: Byron Booker, Oncor Electric Delivery, 1; - Kacie Fischer
Answer		No
Document Name		
Comment		
 2 too vague becar Oncor's view of D distributed general utility system." The From Oncor's explored more than ten coupling. Is there any MW seems. 	use it does not con ER is consistent wation units connection is definition can be perience, the total MW of the installance	LC ("Oncor") considers the DER definition used in the Technical Rationale for Reliability Standard MOD-032- ntain a voltage class threshold for an energy resource to be considered a DER. with ERCOT's definition of DER, which is: "An electrical generating facility consisting of one or more on-site ted at a voltage less than or equal to 60 kilovolts (kV), which may be connected in parallel operation to the e found here: https://www.ercot.com/files/docs/2017/03/24/DER OnePager FINAL.pdf capacity of the installation's on-site distributed generation units may exceed ten megawatts (MW); however, ation's capacity will be allowed to export into the grid at any point in time at the point of common Generator and energy storage technologies to be taken into account when the end-use customer is served prefer a MW size threshold be specified in the definition.
1		

Dislikes 0		
Response		
Selene Willis - Edison International - Sou	rthern California Edison Company - 5	
Answer	No	
Document Name		
Comment		
"See comments submitted by the Edison Electric Institute"		
Likes 0		
Dislikes 0		
Response		
David Rivera - New York Power Authority	<i>y</i> - 3	
Answer	No	
Document Name		
Comment		
essential for better interpretations. The curr	m's effort to define ' DER ' and aligning it with IEEE 1547, but we believe a more detailed definition is ent proposed definition seems too narrow, given the use of the term DER across multiple NERC standards. iiled DER definition with examples to avoid potential misinterpretations as DER which is not solely for	
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 comments submitted by ACE	ES and the MRO NERC Standards Review Forum.	
Likes 0		

Dislikes 0		
Response		
Bill Garvey - Dominion - Dominion Virginia Power - 3		
Answer	No	
Document Name		
Comment		
Dominion Energy supports EEI comments		
Likes 0		
Dislikes 0		
Response		
Hillary Creurer - Allete - Minnesota Powe	er, Inc 1	
Answer	No	
Document Name		
Comment		
Minnesota Power supports MRO's NERC S	tandards Review Forum's (NSRF) comments.	
Likes 0		
Dislikes 0		
Response		
Andy Thomas - Duke Energy - 1,3,5,6 - S	ERC,RF	
Answer	No	
Document Name		
Comment		
See comments submitted by the Edison Electric Institute for Duke Energy's official response.		
Likes 0		
Dislikes 0		
Response		

Shannon Mickens - Shannon Mickens On Behalf of: Joshua Phillips, Southwest Power Pool, Inc. (RTO), 2; - Shannon Mickens, Group Name SPP RTO		
Answer	No	
Document Name		
Comment		
	eates propose language in the Technical Rationale that suggests including the prosed definition in the Rules proper alignment with the NERC Glossary of Terms.	
Likes 0		
Dislikes 0		
Response		
LaTroy Brumfield - American Transmission Company, LLC - 1		
Answer	No	
Document Name		
Comment		

ATC agrees that there is a need for a NERC DER definition, but ATC does not support the SDT's proposed definition for DER.

Defining DER within the confines of a single NERC project (i.e., NERC Project 2022-02) could limit the definition's use within other ongoing and future DER standard drafting efforts. With the number of NERC projects under modification and existing Standards that are either directly or indirectly related to DERs, ATC believes that a definition for a term such as DER, which is a broadly utilized term that impacts multiple standards, should be developed outside the scope of any individual standard, and should consider the impact to any affected NERC Reliability standards.

If the SDT does go forward with a NERC Glossary of Terms definition for DER, the NERC definition of DER should not involve itself in facilities that do not fall under the purview and regulation of NERC (e.g., local distribution facilities).

ATC believes that the text "Distribution Provider's system" should not be referenced in the DER definition as it refers to the NERC glossary definition of Distribution Provider, not the NERC registered entity and in some cases this is different.

If the term "Distribution Provider" is used, ATC also suggests that there should be a clearer distinction between Distribution Provider as a NERC glossary term and Distribution Provider as a NERC registered entity.

As an alternative, the SDT could replace "connected to the DP's system" with "not directly connected to a bulk power system."

Additionally, ATC requests that the standard explicitly allows the PC to determine thresholds (ex: MW or MVA) for both the collection of DER data and for the modeling of DERs. Alternatively, thresholds for DER data collection and for DER data modeling could be included in the standard. Thresholds for DER data collection and for DER data modeling could also be included in the DER definition but this may be less appropriate/ flexible for future use.

DER thresholds greater than zero MW are needed to manage the potentially large administrative burden on NERC Registered Entities such as the TOs, TPs, and DPs.

ATC encourages a new NERC Registered DPs with DER.	Entity for DER (ex: DP-DER or IBR-DER) to bring DER data reporting accountability to those unregistered
Likes 0	
Dislikes 0	
Response	
Alan Kloster - Alan Kloster On Behalf of Tiffany Lake, Evergy, 3, 5, 1, 6; - Alan Klo	: Jeremy Harris, Evergy, 3, 5, 1, 6; Kevin Frick, Evergy, 3, 5, 1, 6; Marcus Moor, Evergy, 3, 5, 1, 6; oster
Answer	No
Document Name	
Comment	
Evergy supports and incorporates by refere	ence the comments of the Edison Electric Institute (EEI), NAGF and MRO NSRF for question #1.
Likes 0	
Dislikes 0	
Response	
Alison MacKellar - Constellation - 5	
Answer	No
Document Name	
Comment	
	is going to include every DER or there will be a threshold as there are several small projects that would be NERC mandated modeling and testing requirement when their impact to the BES is marginal. Segments 5 and 6
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	

team of single project working within the conproliferation of NERC projects that are either definition that impacts multiple standards shaped Reliability standards. In addition, the NAGF is concerned with the Rationale. Regions or even states have the	ed definition for DER, nor do we agree that the definition for the term DER should be defined by the drafting infines of that project as set forth by the Standard Drafting Process. The NAGF is concerned with the er directly, or indirectly, related to DERs and the potential consequences of the proposed DER definition. A hould be developed outside the scope of any individual standard and consider the impact to all of the affected in the inconsistency of DER term used across the industry as stated in the examples provided in the Technical ir own definition of DERs which may impact a Generator Owner's ability to comply with both NERC and other nended that NERC perform outreach to regions and/or states to try to ensure some consistency on how the	
Likes 0		
Dislikes 0		
Response		
Ben Hammer - Western Area Power Adm	inistration - 1	
Answer	No	
Document Name		
Comment		
of NERC projects that are either directly, or multiple standards, should be developed in Additionally, the proposed definition for DEF	lefined solely by this Standard Drafting Team within the parameters of Project 2022-02. With the proliferation indirectly, related to DERs. A definition, for a term such as DER, which is a broadly utilized term that impacts a separate project. R may fall outside the purview of NERC Reliability Standards as allowed for by Section 215(a)(1) of the system] does not include facilities used in the local distribution of electric energy.").	
Likes 0		
Dislikes 0		
Response		
Kenya Streeter - Edison International - Southern California Edison Company - 1,3,5,6		
Answer	No	
Document Name		
Comment		
See comments submitted by the Edison Ele	ectric Institute	
Likes 0		
Dislikes 0		

Response	
David Jendras Sr - Ameren - Ameren Se	rvices - 3
Answer	No
Document Name	
Comment	
Ameren supports EEI's comments on this p	project
Likes 0	
Dislikes 0	
Response	
Sean Bodkin - Dominion - Dominion Res	ources, Inc 6, Group Name Dominion
Answer	No
Document Name	
Comment	
resource located on the distribution system	The current proposed definition appears to conflict with how FERC has previously defined DER: "any any subsystem thereof or behind a customer meter", which may include, but not limited to, "electric storage response, energy efficiency, thermal storage, and electric vehicles and their supply equipment"
Likes 0	
Dislikes 0	
Response	
	: Chris Dimisa, North Carolina Electric Membership Corporation, 4, 3, 5; Reid Cashion, North Carolina 5; Richard McCall, North Carolina Electric Membership Corporation, 4, 3, 5; - Scott Brame, Group
Answer	No
Document Name	
Comment	
NCEMC supports comment of ACES.	
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		
Sheila Suurmeier - Black Hills Corporation	on - 5	
Answer	No	
Document Name		
Comment		
TPL-001 and MOD-032. Black Hills Corpora	e development of a DER definition within the NERC Reliability Standards Project 2022-02 Modifications to ation agrees with EEI and NAGF comments that the inclusion of the proposed DER definition will affect had DER definition should be defined outside the scope of a single standard.	
Likes 0		
Dislikes 0		
Response		
Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt		
Answer	No	
Document Name		
Comment		
Black Hills Corporation does not support the development of a DER definition within the NERC Reliability Standards Project 2022-02 Modifications to TPL-001 and MOD-032. Black Hills Corporation agrees with EEI and NAGF comments that the inclusion of the proposed DER definition will affect multiple other NERC standards and as such a DER definition should be defined outside the scope of a single standard.		
Likes 0		
Dislikes 0		

Response	
Claudine Bates - Black Hills Corporation - 6	
Answer	No
Document Name	
Comment	
TPL-001 and MOD-032. Black Hills Corpora	e development of a DER definition within the NERC Reliability Standards Project 2022-02 Modifications to ation agrees with EEI and NAGF comments that the inclusion of the proposed DER definition will affect a DER definition should be defined outside the scope of a single standard.
Likes 0	
Dislikes 0	
Response	
Carly Miller - Carly Miller On Behalf of: N	licah Runner, Black Hills Corporation, 5, 6, 1, 3; - Carly Miller
Answer	No
Document Name	
Commont	
Comment	
Black Hills Corporation does not support the TPL-001 and MOD-032. Black Hills Corporation	e development of a DER definition within the NERC Reliability Standards Project 2022-02 Modifications to ation agrees with EEI and NAGF comments that the inclusion of the proposed DER definition will affect a DER definition should be defined outside the scope of a single standard.
Black Hills Corporation does not support the TPL-001 and MOD-032. Black Hills Corporation	ation agrees with EEI and NAGF comments that the inclusion of the proposed DER definition will affect
Black Hills Corporation does not support the TPL-001 and MOD-032. Black Hills Corpora multiple other NERC standards and as such	ation agrees with EEI and NAGF comments that the inclusion of the proposed DER definition will affect
Black Hills Corporation does not support the TPL-001 and MOD-032. Black Hills Corpora multiple other NERC standards and as sucl	ation agrees with EEI and NAGF comments that the inclusion of the proposed DER definition will affect
Black Hills Corporation does not support the TPL-001 and MOD-032. Black Hills Corpora multiple other NERC standards and as sucl Likes 0 Dislikes 0	ation agrees with EEI and NAGF comments that the inclusion of the proposed DER definition will affect
Black Hills Corporation does not support the TPL-001 and MOD-032. Black Hills Corpora multiple other NERC standards and as sucl Likes 0 Dislikes 0	ation agrees with EEI and NAGF comments that the inclusion of the proposed DER definition will affect
Black Hills Corporation does not support the TPL-001 and MOD-032. Black Hills Corpora multiple other NERC standards and as sucl Likes 0 Dislikes 0 Response	ation agrees with EEI and NAGF comments that the inclusion of the proposed DER definition will affect
Black Hills Corporation does not support the TPL-001 and MOD-032. Black Hills Corpora multiple other NERC standards and as sucl Likes 0 Dislikes 0 Response Kinte Whitehead - Exelon - 3	ation agrees with EEI and NAGF comments that the inclusion of the proposed DER definition will affect in a DER definition should be defined outside the scope of a single standard.
Black Hills Corporation does not support the TPL-001 and MOD-032. Black Hills Corpora multiple other NERC standards and as such Likes 0 Dislikes 0 Response Kinte Whitehead - Exelon - 3 Answer	ation agrees with EEI and NAGF comments that the inclusion of the proposed DER definition will affect in a DER definition should be defined outside the scope of a single standard.
Black Hills Corporation does not support the TPL-001 and MOD-032. Black Hills Corpora multiple other NERC standards and as such Likes 0 Dislikes 0 Response Kinte Whitehead - Exelon - 3 Answer Document Name	ation agrees with EEI and NAGF comments that the inclusion of the proposed DER definition will affect in a DER definition should be defined outside the scope of a single standard. No
Black Hills Corporation does not support the TPL-001 and MOD-032. Black Hills Corpora multiple other NERC standards and as sucleikes 0 Dislikes 0 Response Kinte Whitehead - Exelon - 3 Answer Document Name Comment	ation agrees with EEI and NAGF comments that the inclusion of the proposed DER definition will affect in a DER definition should be defined outside the scope of a single standard. No

Response		
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable		
Answer	No	
Document Name		
Comment		
As stated in our draft 1 comments, EEI does not support the development of a DER definition within this NERC Reliability Standards project. The impact of this definition will have far reaching impacts that go beyond this project. To address this issue, we suggest that a separate NERC Reliability Standards project be developed to address this definition. We additionally do not agree or support the notion that from a NERC Reliability Standard compliance standpoint, entities should be held accountable for DERs that fall outside of the NERC registration criteria.		
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		

We at ACES applaud the attempt made by the SDT to clearly define what is by nature a nebulous concept; however, we feel that the current definition is overly broad and will create an insurmountable compliance obstacle.

We have an ongoing concern regarding the level upon which this will require DPs to collect DER data interconnected to distribution systems. The proposed draft establishes a zero MVA threshold for the collection of all DER data "in non-isolated parallel operation with the Bulk Power System". Per the Technical Rationale, this includes each and every residential solar and commercial rooftop solar customer on the DP's systems. This is a major concern given the extent it may go to exhausting the resources of our Members for the collection of DER data which may not have a material impact to the reliability of the BES.

Additionally, there is a seemingly interchangeable use of the terms Distributed Energy Resource (DER) and Inverter Based Resource (IBR) to describe the same types of assets. It is our opinion that a singular definition should be developed to define these resource types. Given the currently proposed changes to the NERC Rules of Procedure (specifically Appendices 5A and 5B), we believe that the term IBR should be utilized in lieu of DER. Moreover, it is our opinion that the newly proposed GO-IBR and GOP-IBR registrations should be utilized when developing MOD-032-2. In short, we believe that the NERC registration criteria are well reasoned and were intentionally developed to only include those entities and/or resources that could have a material impact to the BES.

In conclusion, it is our recommendation that the proposed MOD-032-2 Reliability Standard be modified to include a non-zero MVA threshold. We believe that the DP should only be required to collect data from NERC registered entities.

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:	
We at ACES applaud the attempt made by the SDT to clearly define what is by nature a nebulous concept; however, we feel that the current definition is overly broad and will create an insurmountable compliance obstacle.	
We have an ongoing concern regarding the level upon which this will require DPs to collect DER data interconnected to distribution systems. The proposed draft establishes a zero MVA threshold for the collection of all DER data "in non-isolated parallel operation with the Bulk Power System". Per the Technical Rationale, this includes each and every residential solar and commercial rooftop solar customer on the DP's systems. This is a major concern given the extent it may go to exhausting the resources of our Members for the collection of DER data which may not have a material impact to the reliability of the BES.	
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In conclusion, it is our recommendation that the proposed MOD-032-2 Reliability Standard be modified to include a non-zero MVA threshold. We believe that the DP should only be required to collect data from NERC registered entities.	
ikes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Authority - 1,3,5,6 - SERC	
Answer	No
Document Name	

The drafting team should consider defining	"Transmission connected DERs" (100 kV and above) and "Distribution connected DERs" (below 100 kV).
Glossary of Terms defines a Generator Ow	generators and energy storage technologies", implying that a Generator Owner is involved. The NERC ner as the "Entity that owns and maintains generating Facility(ies)". Would it be more practical to acquire an the DP/TO; particularly in instances where the GO is a NERC registered entity?
Likes 0	
Dislikes 0	
Response	
Marty Hostler - Northern California Power	er Agency - 3,4,5,6
Answer	No
Document Name	
Comment	
already restated them.	y ACES, EEI, MRO, NAGF, and Talen but are not going to restate each item specifically, as others have ors" and before "energy storage technologies".
Likes 0	
Dislikes 0	
Response	
Jeremy Lawson - Northern California Po	wer Agency - 3,4,5,6
Answer	No
Document Name	
Comment	
Hi, please reference comments by Marty Hostler, NCPA Compliance Manager.	
Thank you,	
Jeremy Lawson, P.E.	
Generation Services Director of Engineering	

Comment

Northern California Power Agency	
Likes 0	
Dislikes 0	
Response	
Joseph OBrien - NiSource - Northern Ind	liana Public Service Co 6
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Rachel Coyne - Texas Reliability Entity, I	nc 10
Answer	Yes
Document Name	
Comment	
page 2 of the technical rationale, it states "I use of the DP term in the DER definition do	Texas RE noticed a potential contradiction within the technical rationale and would like it clarified. On t should be clear that MOD-032 2 applicability and compliance obligations refer to NERC registered DPs; the es not in itself imply any compliance." This seems to be contradicted on page 3, where it states: "The NERC P is defined by providing the distribution function (this includes entities that may not be NERC-registered
Likes 0	
Dislikes 0	
Response	
John Pearson - ISO New England, Inc 2	2
Answer	Yes
Document Name	
Comment	

The number of different DER definitions is confusing and difficult to work with. We agree with the proposed definition but it doesn't appear to be used consistently throughout the standard.	
Likes 0	
Dislikes 0	
Response	
Alyssia Rhoads - Public Utility District N	o. 1 of Snohomish County - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Anne Kronshage - Public Utility District I	No. 1 of Chelan County - 6, Group Name Public Utility District No. 1 of Chelan County - Voting Group
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	
Utility District, 3, 6, 4, 1, 5; Kev	nalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal rin Smith, Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, nento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim d BANC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thomas Foltz - AEP - 5	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Martin Sidor - NRG - NRG Ener	·gy, Inc 6
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Eric Sutlief - CMS Energy - Cor	nsumers Energy Company - 3,4,5 - RF

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Robert Follini - Avista - Avista Corporation	on - 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Glen Farmer - Avista - Avista Corporation	n - 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	
Joshua London - Eversource Energy - 1, Group Name Eversource	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Israel Perez - Israel Perez On Behalf of: I Johnson, Salt River Project, 3, 1, 6, 5; Ti	Mathew Weber, Salt River Project, 3, 1, 6, 5; Sarah Blankenship, Salt River Project, 3, 1, 6, 5; Thomas mothy Singh, Salt River Project, 3, 1, 6, 5; - Israel Perez
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Leslie Hamby - Southern Indiana Gas an	d Electric Co 3,5,6 - RF
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Greg Davis - Georgia Transmission Corp	poration - 1

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
(Tacoma, WA), 1, 4, 5, 6, 3; John Nierenb	Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities erg, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike, Group Name Tacoma Power
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Pub	olic Service Co 1
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	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Helen Lainis - Independent Electricity System Operator - 2	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Bobbi Welch - Midcontinent ISO, Inc 2, Group Name ISO/RTO Council Standards Review Committee (IRC SRC) 2022-02 Modifications to MOD-032 Draft 2	
Answer	Yes
Document Name	
Comment	
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	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	
Constantin Chitescu - Ontario Power Ge	neration Inc 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Apollonia Gonzales - PNM Resources - P	Public Service Company of New Mexico - NA - Not Applicable - WECC
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	
Document Name	
Comment	

RF recommends revising the proposed definition to explicitly include behind the meter resources:	
"Generators and energy storage technologies connected to the Distribution Provider's system, either directly or behind the meter of an end use customer, that are capable of providing Real Power in non-isolated parallel operation with the Bulk Electric System."	
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC Entity Monitoring	
Answer	
Document Name	
Comment	
The apparent use of a defined term for a registered entity (functional entity) may cause confusion in the industry. WECC appreciates the idea of trying to illustrate what the entity functions may be regardless of the determination for registration	
Likes 0	
Dislikes 0	
Response	

2. Are there any other clarifications needed in the Technical Rationale?		
Jeremy Lawson - Northern California Power Agency - 3,4,5,6		
Answer	No	
Document Name		
Comment		
Hi, please reference comments by Marty Ho	ostler, NCPA Compliance Manager.	
Thank you,		
Jeremy Lawson, P.E.		
Generation Services Director of Engineering		
Northern California Power Agency		
Likes 0		
Dislikes 0		
Response		
Jennifer Bray - Arizona Electric Power Cooperative, Inc 1		
Answer	No	
Document Name		
Comment		
AEPC signed on to ACES comments:		
While we do not agree with some of the SDT's viewpoints about the level of DER data required, we do appreciate the high level of effort made by the SDT to develop the Technical Rationale.		
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	
While we do not agree with some of the SDT's viewpoints about the level of DER data required, we do appreciate the high level of effort made by the SDT to develop the Technical Rationale.	
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable	
Answer	No
Document Name	
Comment	

While EEI finds the Technical Rationale to be clear, we have concerns with the following statements and positions contained in the Technical Rationale:

Page 1; Rationale for Applicability Section:

EEI does not agree that TOs (or registered DPs) should be required to coordinate with the owners of distribution facilities that do not have an associated NERC-registered DP to ensure the availability of necessary data, either through interconnection agreements or other binding contracts. TOs and DPs have no ability to control interconnection agreements on other entity's system or the ability to obtain data from non-registered entities or facilities used in the local distribution of electric energy.

EEI is also concerned that the SDT acknowledges that data collection for DERs connected to unregistered entities is a problem and suggests that NERC should expand DP registration criteria or develop a DER-only DP registration criteria to address this gap but still believes there is value in moving MOD-032-2 forward with requirements for TOs and DPs when those obligations are limited to assets owned by the TOs and DPs.

Page 4 - Rational for Modifications to Attachment 1

EEI does not support the scope of modifications to MOD-032, Attachment 1 which obligates TOs and DPs to collect DER data on all relevant DERs including utility scale facilities and smaller behind the meter facilities, which appears to include all residential DERs even though these resources are used for local distribution.

EEI does not agree with the SDT's position that the PC/TP should have the authority to specify DER data to whatever level it deems appropriate. (Ref. the explanation of Footnote 4 from Attachment 1 of MOD-032).

The following statement (in boldface) should be struck from the Technical Rationale because TOs and DPs should have no obligation to provide any data related to DERs participating within a DER Aggregation in the organized markets. While the SDT appears to believe that while the data should be provided by the DER Aggregator, they believe that TOs and DPs still have an obligation to provide this data if requested to do so by the PC/TP: This in no way absolves a DP/TO from an obligation to provide DER data according to the data requirements and reporting procedures developed by its Planning Coordinator and Transmission Planner in Requirement R1.

Likes 0		
Dislikes 0		
Response		
Kinte Whitehead - Exelon - 3		
Answer	No	
Document Name		
Comment		
Exelon concurs with the comments submitted	ed 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		
David Jendras Sr - Ameren - Ameren Services - 3		
Answer	No	
Document Name		
Comment		
Ameren supports EEI's comments on this project		
Likes 0		
Dislikes 0		

Kenya Streeter - Edison International - Southern California Edison Company - 1,3,5,6 Answer Comment See comments submitted by the Edison Electric Institute Likes 0 Dislikes 0 Response La Troy Brumfield - American Transmission Company, LLC - 1 Answer Comment ATC appreciates the effort of the Standard Drafting Team in developing the Technical Rationale. Likes 0 Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer Answer Comment Answer Comment Name Comment Submitted by the Edison Electric Institute for Duke Energy's official response. Response Response Comment Name Comment Comment Name Comment Comment Name C	Response		
Answer No Document Name Comment See comments submitted by the Edison Electric Institute Likes 0 Dislikes 0 No Response LaTroy Brumfield - American Transmission Company, LLC - 1 Answer No Document Name Comment ATC appreciates the effort of the Standard Drafting Team in developing the Technical Rationale. Likes 0 Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0 Dislikes 0 Dislikes 0 Document Name			
Comment See comments submitted by the Edison Electric Institute Likes 0 Dislikes 0 Response LaTroy Brumfield - American Transmission Company, LLC - 1 Answer No Document Name Comment ATC appreciates the effort of the Standard Drafting Team in developing the Technical Rationale. Likes 0 Dislikes 0 Response Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0 Dislikes 0 Dislikes 0 Document Name Comment	Kenya Streeter - Edison International - S	outhern California Edison Company - 1,3,5,6	
See comments submitted by the Edison Electric Institute Likes 0 Dislikes 0 Response LaTroy Brumfield - American Transmission Company, LLC - 1 Answer No Document Name Comment ATC appreciates the effort of the Standard Drafting Team in developing the Technical Rationale. Likes 0 Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment Andy Thomas - Duke Energy - 1,35,6 - SERC,RF Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	Answer	No	
See comments submitted by the Edison Electric Institute Likes 0 Dislikes 0 Response LaTroy Brumfield - American Transmission Company, LLC - 1 Answer No Document Name Comment ATC appreciates the effort of the Standard Drafting Team in developing the Technical Rationale. Likes 0 Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	Document Name		
Likes 0 Dislikes 0 Response LaTroy Brumfield - American Transmission Company, LLC - 1 Answer No Document Name Comment ATC appreciates the effort of the Standard Drafting Team in developing the Technical Rationale. Likes 0 Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	Comment		
Dislikes 0 Response LaTroy Brumfield - American Transmission Company, LLC - 1 Answer No Document Name Comment ATC appreciates the effort of the Standard Drafting Team in developing the Technical Rationale. Likes 0 Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	See comments submitted by the Edison Ele	ectric Institute	
Response LaTroy Brumfield - American Transmission Company, LLC - 1 Answer No Document Name Comment ATC appreciates the effort of the Standard Drafting Team in developing the Technical Rationale. Likes 0 Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	Likes 0		
LaTroy Brumfield - American Transmission Company, LLC - 1 Answer No Document Name Comment ATC appreciates the effort of the Standard Drafting Team in developing the Technical Rationale. Likes 0 Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	Dislikes 0		
Answer No Document Name Comment ATC appreciates the effort of the Standard Drafting Team in developing the Technical Rationale. Likes 0 Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	Response		
Answer No Document Name Comment ATC appreciates the effort of the Standard Drafting Team in developing the Technical Rationale. Likes 0 Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0			
Comment ATC appreciates the effort of the Standard Drafting Team in developing the Technical Rationale. Likes 0 Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	LaTroy Brumfield - American Transmiss	ion Company, LLC - 1	
ATC appreciates the effort of the Standard Drafting Team in developing the Technical Rationale. Likes 0 Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	Answer	No	
ATC appreciates the effort of the Standard Drafting Team in developing the Technical Rationale. Likes 0 Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	Document Name		
Likes 0 Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	Comment		
Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	ATC appreciates the effort of the Standard Drafting Team in developing the Technical Rationale.		
Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	Likes 0		
Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	Dislikes 0		
Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	Response		
Answer No Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0			
Document Name Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF		
Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	Answer	No	
See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0	Document Name		
Likes 0 Dislikes 0	Comment		
Dislikes 0	See comments submitted by the Edison Electric Institute for Duke Energy's official response.		
	Likes 0		
Response	Dislikes 0		
	Response		

Hillary Creurer - Allete - Minnesota Power, Inc 1		
Answer	No	
Document Name		
Comment		
Minnesota Power supports MRO's NERC Standards Review Forum's (NSRF) comments.		
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 comments submitted by ACES and the MRO NERC Standards Review Forum.		
Likes 0		
Dislikes 0		
Response		
Selene Willis - Edison International - So	uthern California Edison Company - 5	
Answer	No	
Document Name		
Comment		
"See comments submitted by the Edison Electric Institute"		
Likes 0		
Dislikes 0		
Response		
	Carl Spaetzel, Buckeye Power, Inc., 4, 3, 5; Jason Procuniar, Buckeye Power, Inc., 4, 3, 5; Kevin Ryan Strom, Group Name Buckeye Power Group	
Answer	No	

Document Name		
Comment		
Buckeye Power, Inc. supports the comments of ACES:		
SDT to develop the Technical Rationale.	T's viewpoints about the level of DER data required, we do appreciate the high level of effort made by the	
Likes 0		
Dislikes 0		
Response		
Glen Farmer - Avista - Avista Corporation	n - 5	
Answer	No	
Document Name		
Comment		
NA		
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 agrees with the concerns expressed by EEI.		
Likes 0		
Dislikes 0		
Response		
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter		
Answer	No	

Document Name		
Comment		
irstEnergy has concerns with the following statements and positions contained in the Technical Rationale:		
age 1; Rationale for Applicability Section:		
El does not agree that TOs (or registered DPs) should be required to coordinate with the owners of distribution facilities that do not have an associated ERC-registered DP to ensure the availability of necessary data, either through interconnection agreements or other binding contracts. Such a equirement makes no sense. TOs and DPs have no ability to control interconnection agreements on other entity's system or the ability to obtain data om non-registered entities.		
El is also concerned that the SDT acknowledges that data collection for DERs connected to unregistered entities is a problem and suggests that ERC should expand DP registration criteria or develop a DER-only DP registration criteria to address this gap but still believes there is value in moving IOD-032-2 forward with regulator obligations on TOs and DPs when it is recognized their ability to collect certain data is not possible.		
Page 4 – Rational for Modifications to At	tachment 1	
	tions to MOD-032, Attachment 1 which obligates TOs and DPs to collect DER data on all relevant DERs behind the meter facilities, which appears to include all residential DERs even though these resources are	
EEI does not agree with the SDT's position that the PC/TP should have the authority to specify DER data to whatever level it deems appropriate. (Ref. he explanation of Footnote 4 from Attachment 1 of MOD-032).		
EEI believes that the following statement (underlined) should be struck from the Technical Rationale because TOs and DPs should have no obligation o provide any data related to DERs participating within a DER Aggregation in the organized markets. While the SDT appears to believe that while the data should be provided by the DER Aggregator, they believe that TOs and DPs still have an obligation to provide this data if requested to do so by the PC/TP: This in no way absolves a DP/TO from an obligation to provide DER data according to the data requirements and reporting procedures developed by its Planning Coordinator and Transmission Planner in Requirement R1.		
ikes 0		
Dislikes 0		
Response		
Apollonia Gonzales - PNM Resources - P	Public Service Company of New Mexico - NA - Not Applicable - WECC	
Answer	No	
Oocument Name		
Comment		
ikes 0		
Dislikes 0		
Response		

Constantin Chitescu - Ontario Power Ge	neration Inc 5
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
	Chris Dimisa, North Carolina Electric Membership Corporation, 4, 3, 5; Reid Cashion, North Carolina; Richard McCall, North Carolina Electric Membership Corporation, 4, 3, 5; - Scott Brame, Group
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ben Hammer - Western Area Power Adm	inistration - 1
Answer	No
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	No
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Pub	olic Service Co 1
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
(Tacoma, WA), 1, 4, 5, 6, 3; John Nierenb	Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities erg, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,
WAJ, 1, 4, 5, 6, 5, Terry Gilloru, Tacollia i	Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike, Group Name Tacoma Power
Answer	No
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	No
Answer Document Name Comment Likes 0 Dislikes 0 Response	No
Answer Document Name Comment Likes 0 Dislikes 0 Response Leslie Hamby - Southern Indiana Gas and	No d Electric Co 3,5,6 - RF
Answer Document Name Comment Likes 0 Dislikes 0 Response Leslie Hamby - Southern Indiana Gas and Answer	No d Electric Co 3,5,6 - RF
Answer Document Name Comment Likes 0 Dislikes 0 Response Leslie Hamby - Southern Indiana Gas and Answer Document Name	No d Electric Co 3,5,6 - RF
Answer Document Name Comment Likes 0 Dislikes 0 Response Leslie Hamby - Southern Indiana Gas and Answer Document Name	No d Electric Co 3,5,6 - RF
Answer Document Name Comment Likes 0 Dislikes 0 Response Leslie Hamby - Southern Indiana Gas and Answer Document Name Comment	No d Electric Co 3,5,6 - RF

	Mathew Weber, Salt River Project, 3, 1, 6, 5; Sarah Blankenship, Salt River Project, 3, 1, 6, 5; Thomas mothy Singh, Salt River Project, 3, 1, 6, 5; - Israel Perez	
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Shannon Mickens - Shannon Mickens O SPP RTO	n Behalf of: Joshua Phillips, Southwest Power Pool, Inc. (RTO), 2; - Shannon Mickens, Group Name	
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
David Rivera - New York Power Authority - 3		
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Ruchi Shah - AES - AES Corporation - 5		
Answer	No	
Document Name		

Comment		
Likes 0		
Dislikes 0		
Response		
Adrian Andreoiu - BC Hydro and Power	Authority - 1, Group Name BC Hydro	
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Dwanique Spiller - Berkshire Hathaway -	NV Energy - 5	
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mike Magruder - Avista - Avista Corporation - 1		
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Diana Aguas - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE		
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Anna Martinson - MRO - 1,2,3,4,5,6 - MRO	O, Group Name MRO Group	
Answer	No	
Document Name		
Comment		
Likes 1	Lincoln Electric System, 5, Millard Brittany	
Dislikes 0		
Response		
Donna Wood - Tri-State G and T Associa	tion, Inc 1	
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Martin Sidor - NRG - NRG Energy, Inc 6		
Answer	No	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Utility District, 3, 6, 4, 1, 5; Kevin Smith, I	arles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, 3, icipal Utility District, 3, 6, 4, 1, 5; - Tim
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Joseph OBrien - NiSource - Northern Ind	iana Public Service Co 6
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Andrea Jessup - Bonneville Power Administration - 1,3,5,6 - WECC	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response		
Anne Kronshage - Public Utility District	No. 1 of Chelan County - 6, Group Name Public Utility District No. 1 of Chelan County - Voting Group	
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Marty Hostler - Northern California Powe	er Agency - 3,4,5,6	
Answer	Yes	
Document Name		
Comment		
We agree with some comments provided balready restated them.	by ACES, EEI, MRO, NAGF, and Talen but are not going to restate each item specifically, as others have	
	ing in the standard footnote 5 on page 16, first sentence "Where DER is connected to an unregistered ar as though said entity should be registered. If they are not in the NERC registry then they are not a DP.	
Consequently, it should say "Where a DER is connected to a non-Distribution Provider".		
We also disagree with the SDT re: proposed standard footnote 5 on page 16, second sentence. "An unregistered Distribution Provider is an unregistered entity meeting the NERC Glossary of Terms definition of Distribution Provider". Our view is that this seems to imply that another DP or TO can determine, or has the responsibility of determining, if an entity should be registered as a DP. That is NERC's or the Regional Entities' responsibility registration determination is not a DP's or a TO's responsibility.		
Likes 0		
Dislikes 0		
Response		
Dennis Chastain - Tennessee Valley Aut	:hority - 1,3,5,6 - SERC	
Answer	Yes	
Document Name		
Comment		

	Id classify any generation connected to a registered DP as a DER.
Likes 0	
Dislikes 0	
Response	
Kennedy Meier - Electric Reliability Cour	ncil of Texas, Inc 2
Answer	Yes
Document Name	
Comment	
ERCOT joins the comments submitted by th own.	ne ISO/RTO Council (IRC) Standards Review Committee (SRC) for this question and adopts them as its
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	
IBR-DERs data in the aggregate or unable operators in their areas: (1) an estimate of	graph 105 of FERC Order No. 901 which states that if distribution providers are unable to gather adequate to gather IBR-DERs data in the aggregate at all, provide instead to the Bulk-Power System planners and the modeling data and parameters of IBR-DERs in the aggregate, (2) an explanation of the limitations of the limitations of the data provided by IBR-DERs, and (4) the method used for estimation.
Likes 0	
Dislikes 0	
Response	

Bobbi Welch - Midcontinent ISO, Inc. - 2, Group Name ISO/RTO Council Standards Review Committee (IRC SRC) 2022-02 Modifications to MOD-032 Draft 2

Answer	Yes
Document Name	2022-02 Unofficial_Comment_Form_SRC_11-20-23_FINAL_as filed.docx
Comment	
reactive power capability (see Draft #1 of M of MOD-032-2, Attachment 1, steady-state it the data needed to model operating character mere operating capabilities.	Committee (SRC)[1] recommends that the Technical Rationale include an explanation of why the term OD-032-2, Attachment 1, steady-state item 9c) has been removed in favor of the language added in Draft #2 tem 9d. Our understanding is the change was made to focus on broadening the language to better describe teristics (including ride-through capability, voltage support, frequency control, etc.) instead of focusing on
response to question 6). ERCOT supports t	C SRC includes the following entities: CAISO, MISO, NYISO, PJM, SPP and ISO-NE (except for the he response to question 2 only.
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity Co	ordinating Council - 10, Group Name WECC Entity Monitoring
Answer	Yes
Document Name	
Comment	
Does the term "interconnection-wide" need	to be capitalized.
Likes 0	
Dislikes 0	
Response	
Carly Miller - Carly Miller On Behalf of: M	licah Runner, Black Hills Corporation, 5, 6, 1, 3; - Carly Miller
Answer	Yes
Document Name	
Comment	
	e included language that the "next closest electrically connected registered entity (DP or TO)" is responsible I DPs. Black Hills Corporation agrees with EEI and NAGF comments that TO, or nearest registered DP do request data from unregistered DP entities.
Likes 0	
Dislikes 0	

Response		
Claudine Bates - Black Hills Corporation	- 6	
Answer	Yes	
Document Name		
Comment		
Black Hills Corporation does not support the included language that the "next closest electrically connected registered entity (DP or TO)" is responsible for coordinating DER data with unregistered DPs. Black Hills Corporation agrees with EEI and NAGF comments that TO, or nearest registered DP do not have the ability or authority to gather or request data from unregistered DP entities.		
Likes 0		
Dislikes 0		
Response		
Rachel Schuldt - Rachel Schuldt On Beh	alf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt	
Answer	Yes	
Document Name		
Comment		
Black Hills Corporation does not support the included language that the "next closest electrically connected registered entity (DP or TO)" is responsible for coordinating DER data with unregistered DPs. Black Hills Corporation agrees with EEI and NAGF comments that TO, or nearest registered DP do not have the ability or authority to gather or request data from unregistered DP entities.		
Likes 0		
Dislikes 0		
Response		
Sheila Suurmeier - Black Hills Corporation - 5		
Answer	Yes	
Document Name		
Comment		
Black Hills Corporation does not support the included language that the "next closest electrically connected registered entity (DP or TO)" is responsible for coordinating DER data with unregistered DPs. Black Hills Corporation agrees with EEI and NAGF comments that TO, or nearest registered DP do not have the ability or authority to gather or request data from unregistered DP entities.		

Likes 0

Dislikes 0	
Response	
John Pearson - ISO New England, Inc	2
Answer	Yes
Document Name	
Comment	
Please provide the reasoning for elimination Draft #2 of MOD-032-2, Attachment 1, item	n of reactive power (see Draft #1 of MOD-032-2, Attachment 1, item 9c) in favor of the added language in 9d.
Likes 0	
Dislikes 0	
Response	
Wayne Sipperly - North American Gener	ator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF
Answer	Yes
Document Name	
Comment	
put forth in developing the technical rational In the Technical Rationale, the Standard Discussive and that the obligation acknowledgement of this unreasonable risk risk for industry. The NAGF recommends the entities who have no obligation to comply. The NAGF recommends that the statement be: "The term Distribution Provider in the D	positions taken by the Standard Drafting Team, the NAGF appreciates the efforts the Standard Drafting Team refling. Team acknowledges that there may be challenges in collecting data for DER connected to so of this standard may place an unreasonable compliance risk on registered entities. However, despite the so, the Standard Drafting Team has put forth in draft 2 similar language, containing the same unreasonable mat the Standard Drafting Team re-consider how to address the issues surrounding data collection from the Standard Drafting Team re-consider how to address the issues surrounding data collection from the Standard Drafting Team re-consider how to address the issues surrounding data collection from the Standard Drafting Team re-consider how to address the issues surrounding data collection from the Standard Drafting Team re-consider how to address the issues surrounding data collection from the Standard Drafting Team re-consider how to address the issues surrounding data collection from the Standard Drafting Team re-consider how to address the issues surrounding data collection from the Standard Drafting Team re-consider how to address the issues surrounding data collection from the Standard Drafting Team re-consider how to address the issues surrounding data collection from the Standard Drafting Team re-consider how to address the issues surrounding data collection from the Standard Drafting Team re-consider how to address the issues surrounding data collection from the Standard Drafting Team re-consider how to address the issues surrounding the same unreasonable complete the Standard Drafting Team re-consider how to address the issues surrounding the same unreasonable the same unreasonable to the Standard Drafting Team re-consider how to address the issues surrounding the same unreasonable the same unreason
Dislikes 0	
Response	
Alison MacKellar - Constellation - 5	

Answer	Yes
Document Name	
Comment	
Clarification is needed on size of DERs app	olicable.
Alison Mackellar on behalf of Constellation	Segments 5 and 6
Likes 0	
Dislikes 0	
Response	
Greg Davis - Georgia Transmission Corp	poration - 1
Answer	Yes
Document Name	
Comment	
	rd need to address the following issue: If the TO/DP is required to report data that the DER owner has no opose to eliminate this compliance risk in the interim while a permanent solution is developed.?
Likes 0	
Dislikes 0	
Response	
Alan Kloster - Alan Kloster On Behalf of: Tiffany Lake, Evergy, 3, 5, 1, 6; - Alan Klo	Jeremy Harris, Evergy, 3, 5, 1, 6; Kevin Frick, Evergy, 3, 5, 1, 6; Marcus Moor, Evergy, 3, 5, 1, 6; oster
Answer	Yes
Document Name	
Comment	
Evergy supports and incorporates by refere	ence the comments of the Edison Electric Institute (EEI) and NAGF for question #2.
Likes 0	
Dislikes 0	
Response	

Kacie Fischer - Kacie Fischer On Behalf of: Byron Booker, Oncor Electric Delivery, 1; - Kacie Fischer

Answer	Yes	
Document Name		
Comment		
additional DER data will put an und	stered/unregistered DP's DER will require tracking and retention of their DER data for TO/TP. Managing this lue burden on TPs. We request that the DER be responsible for submitting data to the PC/TPs directly. ous comment period, clarification is needed by SDT on how to represent a single location with multiple types	
Likes 0		
Dislikes 0		
Response		
Kimberly Turco - Constellation - 6		
Answer	Yes	
Document Name		
Comment	Comment	
Clarification is needed on size of DER's applicable.		
Kimberly Turco on behalf of Constellation S	Segments 5 and 6	
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		

Regarding non registered DPs, as stated in the technical rationale "the SDT recommends that NERC consider a range of options that could include expanding DP registration criteria or registering DER-only DPs to reduce or eliminate this potential DER data collection gap. However, the process to modify NERC registry criteria and register new entities is beyond the scope of Project 2022-02 and would unnecessarily delay the implementation of DER data requirements. The SDT believes there is value in moving forward with MOD-032-2 as it does provide substantial improvement with respect to ensuring DER data is available for inclusion in PC and TP studies." We do not agree that this would unnecessarily delay the implementation. We believe it is necessary to delay the implementation because of this. Please explain the justification for moving forward with this known ambiguity which will cause significant compliance risk and may not ultimately be feasible until the process to modify NERC registry criteria is completed.

Likes 0		
Dislikes 0		
Response		
Eric Sutlief - CMS Energy - Consumers Energy Company - 3,4,5 - RF		
Answer	Yes	
Document Name		
Comment		
In the "Inclusion of Aggregate Demand Clarification" section, it is suggested a comparison to historical load levels can be used to approximate the addition of DER on the distribution feeder. In an era of energy efficiency and significant load transformation, it is extremely difficult to differentiate DER additions vs. other factors contributing to changing feeder loads. This suggestion should be removed as it could lead to false DER aggregation assumptions. Foot Note 5 is an attempt by NERC to force requirements onto unregistered entities via registered entities. This requirement places compliance risk on TO's and DP's to request data where there is no enforcement support. The comments also don't explain what would happen if the unregistered DP doesn't provide the requested data.		
Likes 0		
Dislikes 0		
Dislikes 0		
Response	- MRO	
	- MRO Yes	
Response Duane Franke - Manitoba Hydro - 1,3,5,6		
Response Duane Franke - Manitoba Hydro - 1,3,5,6 Answer		
Response Duane Franke - Manitoba Hydro - 1,3,5,6 Answer Document Name Comment The addition of the wording to support Footrused to approximate the addition of DER on		
Response Duane Franke - Manitoba Hydro - 1,3,5,6 Answer Document Name Comment The addition of the wording to support Footrused to approximate the addition of DER or interconnections. "	Yes note 2: "In situations where DER is not separately metered, a comparison to historical load levels can be the distribution feeder. A consistent reduction in load on the feeder may be indicative of DER approximate aggregate demand under item # 2 in Attachment-1, column-1 (steady-state), but won't support	
Duane Franke - Manitoba Hydro - 1,3,5,6 Answer Document Name Comment The addition of the wording to support Footr used to approximate the addition of DER or interconnections. " This may serve the purpose of determining item # 9 which requires generator type (solar	Yes note 2: "In situations where DER is not separately metered, a comparison to historical load levels can be the distribution feeder. A consistent reduction in load on the feeder may be indicative of DER approximate aggregate demand under item # 2 in Attachment-1, column-1 (steady-state), but won't support ur, battery etc.) and DER capabilities. using. This can be addressed in the joint PC/TP modeling data requirements and reporting procedures	
Duane Franke - Manitoba Hydro - 1,3,5,6 Answer Document Name Comment The addition of the wording to support Footr used to approximate the addition of DER or interconnections. " This may serve the purpose of determining item # 9 which requires generator type (solar the addition of footnote 5 seems to be confirmed."	Yes note 2: "In situations where DER is not separately metered, a comparison to historical load levels can be the distribution feeder. A consistent reduction in load on the feeder may be indicative of DER approximate aggregate demand under item # 2 in Attachment-1, column-1 (steady-state), but won't support ur, battery etc.) and DER capabilities. using. This can be addressed in the joint PC/TP modeling data requirements and reporting procedures	

Response	
Srikanth Chennupati - Entergy - 1,3,5,6 - SERC	
Answer	Yes
Document Name	
Comment	
DER data from unregistered DPs. It does not connected to DPs. These unregistered DEF	e compliance burden on NERC registered entities. The technical rationale notes the challenges in collecting not note or address in any way the challenges in collecting DER data from the unregistered DER owners owners have no obligation or requirement under NERC standards to provide data for modeling. Requiring they do not own and have no means to acquire data on leaves them in a position where they fail to f their own and despite their best efforts.
Likes 0	
Dislikes 0	
Response	
Thomas Foltz - AEP - 5	
Answer	Yes
Document Name	
Comment	
Please see our response to Question #3.	
Likes 0	
Dislikes 0	
Response	
Donald Lock - Talen Generation, LLC - 5	
Answer	Yes
Document Name	
Comment	

While we may disagree with some of the positions taken by the Standard Drafting Team, the NAGF appreciates the efforts the Standard Drafting Team put forth in developing the technical rationale.

In the Technical Rationale, the Standard Drafting Team acknowledges that there may be challenges in collecting data for DER connected to unregistered entities and that the obligations of this standard may place an unreasonable compliance risk on registered entities. However, despite the

acknowledgement of this unreasonable risk, the Standard Drafting Team has put forth in draft 2 similar language, containing the same unreasonable risk for industry. We recommend that the Standard Drafting Team re-consider how to address the issues surrounding data collection from entities who have no obligation to comply.		
We also recommend that the statement "Distribution Provider refers to the NERC glossary definition, not the NERC registered entity," be revised to be, "The term Distribution Provider in the DER definition includes all parties cited in the NERC Glossary definition of a Distribution Provider, some of whom may be registered as TOs and not as DPs. References to Distribution Providers in the requirements of MOD-032 pertain however only to entities registered as DPs."		
Likes 0		
Dislikes 0		
Response		
Alyssia Rhoads - Public Utility District No	o. 1 of Snohomish County - 1	
Answer	Yes	
Document Name		
Comment		
The standard needs to specify the size of D	ER that is required to model	
Likes 0		
Dislikes 0		
Response		
Robert Follini - Avista - Avista Corporation - 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Rachel Coyne - Texas Reliability Entity, Inc 10		
Answer		
Document Name		

Comment	
Please see Texas RE's answer to #1.	
Likes 0	
Dislikes 0	
Response	

3. Do you agree the modifications made in MOD-032-2 will improve system modeling and reliability?		
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter		
Answer	No	
Document Name		
Comment		
FirstEnergy supports EEI's comments which	h state:	
their ability to obtain. EEI further notes that Resource Work Plan" was given and appea IBRs (75MW at ≥100kV) account for 84° 14%; for a total of 98% of the IBRs currently for 2% of the connected IBRs and if correct FERC Order No. 901 (Reliability Standards Reliability Standards, as it relates to modeli the NPCC data and FERC Order No. 901, i include modifications to MOD-032 that prop the impacts of DERs on the BPS. IBRs that seek the data they need directly from the reneed to gather and model the impacts of DI impacts/offsets. However, we do support of	s to MOD-032-2 because many of the changes would obligate TOs and DPs to provide data that exceeds during the Fall 2023 NPCC Compliance and Reliability Conference a presentation titled "Inverter Based is to use data from a Berkeley National Laboratory Report. The presentation goes on to indicate that BES and non-BES (≥20MW & ≤75MW at ≥100kV plus ≥MW at <100kV) account for an additional printerconnected on the grid. This data additionally indicates that small IBRs (<20MW at any kV) only account, would mean these resources would have no meaningful impact on the Reliability of the BPS. Moreover, in to Address Inverter-Based Resources), the Commission made it clear that the focus of changes to NERC and of DERs, is to be limited data to aggregate data not granular details on a non-aggregated basis. Given at would indicate that many of the proposed changes to MOD-032 are unnecessary for reliability. This would nose to provide PCs/TPs with the authority to request data that is overly granular and unnecessary to model have a meaningful impact on the BPS should be registered. Once this has been done, PCs and TPs could gistered resource, not the TOs or DPs that are unlikely to have the needed data. While we recognize the ER resources on the distribution system, modeling should be limited to load demand and aggregate DER oligating DER Aggregators who are participating in the organized markets to provide data on their request. We do not support obligating TOs and DPs to gather non aggregated data, upon request.	
Likes 0		
Dislikes 0		
Response		
Joseph OBrien - NiSource - Northern Ind	liana Public Service Co 6	
Answer	No	
Document Name		
Comment		
Things appear to be specultive at this point.		
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, iicipal Utility District, 3, 6, 4, 1, 5; - Tim	
Answer	No	
Document Name		
Comment		
	s submitted by BC Hydro, especially pertaining to Footnote 5. We feel that the language in Footnote 5, and ssing the compliance obligations of an "unregistered Distribution Provider" onto "the next electrically	
If models are required for all DERs in the BPS, there is an increased chance of Planning Coordinators and Transmission Planners receiving inaccurate models (especially from "unregistered Distribution Providers") as many Distribution Providers may not have the experience to model their DERs correctly which could pollute the base cases and diminish their quality.		
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 does not agree that the both EEI and the MRO NSRF.	e modifications made in MOD-032-2 will improve system modeling and reliability for the reasons stated by	
Likes 0		
Dislikes 0		
Response		
Donna Wood - Tri-State G and T Association, Inc 1		
Answer	No	
Document Name		
Comment		
Tri-State Generation and Transmission supports the MRO NSRF Comments.		

Likes 0		
Dislikes 0		
Response		
Anna Martinson - MRO - 1,2,3,4,5,6 - MRC), Group Name MRO Group	
Answer	No	
Document Name		
Comment		
The MRO NSRF believes that the modifications made to MOD-032-2 will have very limited impact on improving system modeling and reliability. The fact remains that, TOs and DPs have no ability to compel DER owners to provide the data that would be necessary to significantly improve system modeling and reliability. This provides (in our opinion) a likely scenario under which a NERC-registered entity may be held to have a compliance gap for the non-performance/compliance of a non-NERC-registered entity. The proposed draft establishes a zero MVA threshold for the collection of all DER data "in non-isolated parallel operation with the Bulk Power System". Per the Technical Rationale, this includes every residential solar and commercial rooftop solar customer on the DP's systems. This would likely impose an immense administrative burden on (NERC Registered) Distribution Providers and Transmission Owners, while not delivering significant reliability benefits.		
Likes 1	Lincoln Electric System, 5, Millard Brittany	
Dislikes 0		
Response		
Srikanth Chennupati - Entergy - 1,3,5,6 -	SERC	
Answer	No	
Document Name		
Comment		
Accurate modeling of significant DER facilities would improve system modelling and reliability. However, requiring the modeling of facilities where modeling data is not available could just as easily harm the reliability of the transmission system.		
Likes 0		
Dislikes 0		
Response		
Eric Sutlief - CMS Energy - Consumers E	nergy Company - 3,4,5 - RF	
Answer	No	
Document Name		

impacts the BES in a manor proportional to utility's footprint. Much of the required inform interconnectors is authorized by RERRA er false confidence and support of the BES fro discrete modeling of resources with steady	ved how IBR can have an impact on the BES, but it is unclear how the aggregation of smaller "R-DER" "U-DER". Total aggregated R-DER penetration is far from equivalent to a few "U-DER" installations across a mation is not available to DP's for smaller DER installations and the ability to require the information from hitties. The assumptions required to try to model R-DER due to MOD-032-2 requirements could also lead to born R-DER sources. A threshold is needed, suggested at 1 MW, for DER installations to differentiate the state and dynamic information vs. aggregating DER below such threshold, providing gross nameplate pproximated DER response to system events.
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	
The benifit of this additional data will have t connecting into Transmission System.	o be explained better. We are unclear of why it is important. The scope should only include what is directly
Likes 0	
Dislikes 0	
Response	
Kimberly Turco - Constellation - 6	
Answer	No
Document Name	
Comment	
	s. If there is a threshold then Constellation agrees on improvement to reliability but a blanket statement will inprovement on reliability for projects smaller than 20 MVA.
Likes 0	
Dislikes 0	
Response	

Comment

Diana Aguas - CenterPoint Energy House Answer	No	
Document Name		
Comment		
CEHE believes the proposed revisions to MOD-032-2 are problematic and contradicts the existing data requirements that have already been established by the local Planning Coordinators in coordination with Transmission Planners. For example, in the ERCOT region, ERCOT defines these data requirements through the coordination with Transmission Planners as part of various regional working groups. The already defined data requirements do not align with the proposed revisions of the Data Reporting Requirements in MOD-032-2 (ex. Attachment 1, item 2, footnote 2). The current MOD-032-1 addresses and includes the requirements around DER data.		
CEHE is in support of EEI's comment that the modifications made to MOD-32-2 "continue to obligate TOs and DPs to provide data that exceeds their ability to obtain." CEHE agrees with EEI in that if this data is needed, the resource owners should be registered and obligated to supply the data, not the TOs or DPs.		
Likes 0		
Dislikes 0		
Response		
Dwanique Spiller - Berkshire Hathaway -	NV Energy - 5	
Answer	No	
Document Name		
Comment		
NV Energy believes that the modifications made to MOD-032-2 will have very limited impact on improving system modeling and reliability. The fact remains that, TOs and DPs have no ability to compel DER owners to provide the data that would be necessary to significantly improve system modeling and reliability. This provides (in our opinion) a likely scenario under which a NERC-registered entity may be held to have a compliance gap for the non-performance/compliance of a non-NERC-registered entity.		
The proposed draft establishes a zero MVA threshold for the collection of all DER data "in non-isolated parallel operation with the Bulk Power System". Per the Technical Rationale, this includes every residential solar and commercial rooftop solar customer on the DP's systems. This would likely impose an immense administrative burden on (NERC Registered) Distribution Providers and Transmission Owners, while not delivering significant reliability benefits.		
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 appreciates the drafting team's efforts and the opportunity to comment, and offers the following. 1. While BC Hydro appreciates the intent of modifications made in MOD-032-2, BC Hydro is of the opinion that the intended improvement in system modeling and reliability cannot be realized, until the implementation of an effective and practical approach to collect accurate DER data in a timely manner and with a sufficient level of detail. This would be challenging due to the lack of any compliance obligations on unregistered DER owners. DP and TO may have some leverage, such as introducing obligations for DER owners to provide acceptable data for future DERs before they can be connected to the DP/TO systems. However, in the case of unregistered DER owners that are already connected to a TO/DP, the TO/DP will have an extremely limited ability to ensure a timely collection of such data, its accuracy, and sufficient level of detail. 2. The Footnote 5 of the Attachment 1 states that "Where DER is connected to an unregistered Distribution Provider, the next closest electrically connected registered entity (DP or TO) shall request DER data and pass through available information". This appears to set a mandatory requirement, which – as outlined above – would impose regulatory compliance obligations the TO and/or DP registered entity may be unable to meet.		
Likes 0		
Dislikes 0		
Response		
Kacie Fischer - Kacie Fischer On Behalf	of: Byron Booker, Oncor Electric Delivery, 1; - Kacie Fischer	
Answer	No	
Document Name		
Comment		
Clarification is needed with the changes outlined in Attachment 1 in the Steady-State column of Table-#9: 1. "b. Real power capability" Is this referring to the nameplate or approved capacity? 2. "c. Generator type (solar, battery, etc.)" Oncor recommends modifying this statement to give instructions on how to report a single location with multiple types of DER. 3. "d. DER capabilities related to ride through, voltage control and/or frequency control or information that can be used to infer those capabilities for modeling purposes." Could the SDT elaborate on how frequency control would impact the Steady State modeling?		
Likes 0		
Dislikes 0		
Response		

Selene Willis - Edison International - Southern California Edison Company - 5		
Answer	No	
Document Name		
Comment		
"See comments submitted by the Edison El	ectric Institute"	
Likes 0		
Dislikes 0		
Response		
Hillary Creurer - Allete - Minnesota Powe	er, Inc 1	
Answer	No	
Document Name		
Comment		
Minnesota Power supports MRO's NERC S	tandards Review Forum's (NSRF) comments.	
Likes 0		
Dislikes 0		
Response		
Andy Thomas - Duke Energy - 1,3,5,6 - S	ERC,RF	
Answer	No	
Document Name		
Comment		
See comments submitted by the Edison Ele	ectric Institute for Duke Energy's official response.	
Likes 0		
Dislikes 0		
Response		
Shannon Mickens - Shannon Mickens On SPP RTO	n Behalf of: Joshua Phillips, Southwest Power Pool, Inc. (RTO), 2; - Shannon Mickens, Group Name	
Answer	No	

Document Name	
Comment	
While SPP believes that the proposed modi concerns around the appropriate data collections	ifications are a good step towards improving system modeling and reliability. However, we still have ction process pertaining to DERs.
	added to the applicability section of the standard as these registered entities are just as likely to have DERs ective, adding the UFLS-Only DP will eliminate the possibility of uncaptured DER load data if a DP does not
Likes 0	
Dislikes 0	
Response	
Israel Perez - Israel Perez On Behalf of: I Johnson, Salt River Project, 3, 1, 6, 5; Tin	Mathew Weber, Salt River Project, 3, 1, 6, 5; Sarah Blankenship, Salt River Project, 3, 1, 6, 5; Thomas mothy Singh, Salt River Project, 3, 1, 6, 5; - Israel Perez
Answer	No
Document Name	
Comment	
	eliability gap in that GOP and DPs are not by the NERC ROP obligated to align to a TP. The language A et all shall provide to the TP of the interconnected Transmission system.
Likes 0	
Dislikes 0	
Response	
LaTroy Brumfield - American Transmission Company, LLC - 1	
Answer	No
Document Name	
Comment	
	contained in MOD-032-2. However, as Draft 2 of the Standard is written, TOs and DPs have no mechanisn e the data that would be necessary to significantly improve system modeling and reliability.

Compliance-related questions:

Please clarify what the compliance implications are if a TO/ TP or DP requests the modeling data but does not receive it or if the data is inaccurate? Will showing that the TO/ TP attempted to request data be enough? Or that the TO/ TP utilized (or at least considered) the data received if no collection and modeling thresholds are set?

Please clarify how the TO/ TP or DP should be aware that DER are connected to an unregistered DP? The TO/ TP and DP would not have insight into those systems.		
Please clarify the obligations of the TO/TP and DP in determining who is next closest electrically to each unregistered entity (DP or TO) as listed in Footnote 5? Does the TO/TP or DP need to reach out to the DER or to the unregistered DP for the information? Would the request for DER information be an annual process or triggered by something else?		
Likes 0		
Dislikes 0		
Response		
Alan Kloster - Alan Kloster On Behalf of: Tiffany Lake, Evergy, 3, 5, 1, 6; - Alan Klo	Jeremy Harris, Evergy, 3, 5, 1, 6; Kevin Frick, Evergy, 3, 5, 1, 6; Marcus Moor, Evergy, 3, 5, 1, 6; oster	
Answer	No	
Document Name		
Comment		
Evergy supports and incorporates by refere	nce the comments of the Edison Electric Institute (EEI) and MRO NSRF for question #3.	
Likes 0		
Dislikes 0		
Response		
Greg Davis - Georgia Transmission Corp	poration - 1	
Answer	No	
Document Name		
Comment		
If DER penetration levels are high in a particular area, the changes in MOD-032-2 could have a positive impact on reliability. However, if DER penetrations are not high enough to impact the reliability of the BES, DPs and TOs will have added unnecessary administrative work and compliance burden for the purpose of checking a compliance box.		
Likes 0		
Dislikes 0		
Response		
Alison MacKellar - Constellation - 5		
Answer	No	

Document Name	
Comment	
	s. If there is a threshold then Constellation agrees on improvement to reliability but a blanket statement will nprovement on reliability for projects smaller than 20 MVA.
Alison Mackellar on behalf of Constellation Segments 5 and 6	
Likes 0	
Dislikes 0	
Response	
(Tacoma, WA), 1, 4, 5, 6, 3; John Nierenb	Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities berg, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike, Group Name Tacoma Power
Answer	No
Document Name	
Comment	
(CMPLDWG). Tacoma would prefer for the outlining what additional new software/mod	appear to directly correlate with the fields in existing modeling software such as the Composite Load Model Requirements to either align with existing modeling software, or for there to be a guidance document el development needs to take place before the required DER can actually be utilized. The most significant allations of DERs connected to each substation, where each DER has unique ride-through and voltage
Likes 0	
Dislikes 0	
Response	
John Pearson - ISO New England, Inc 2	
Answer	No
Document Name	
Comment	
	anning Coordinator or Transmission Planner can obtain the information directly from the generator based on ents that the TO or DP does not need to provide information listed in Attachment 1. Suggested revision is

	[DP, TO where DER is directly connected to the TO system and not through a DP unless the generator is PC or TP based on individual Tariff or local provisions]
a. Location (bus from item 1)	
b. Real power capability	
c. Generator type (solar, battery, etc.)	
d. DER capabilities related to ride-through, modeling purposes.	voltage control and/or frequency control or information that can be used to infer those capabilities for
	a including whether DER is subject to tripping in conjunction with UFLS and/or UVLS [DP, TO where DER is
directly connected to the TO system and no individual Tariff or local provisions]	t through a DP, unless the generator is required to provide the data directly to the PC or TP based on
Likes 0	
Dislikes 0	
Response	
Ben Hammer - Western Area Power Adm	inistration - 1
Answer	No
D A N	
Document Name	
Comment Name	
Comment The modifications made to MOD-032-2 may compel DER owners to provide the data that	have limited impact on improving system modeling and reliability. However, TOs and DPs have no ability to at would be necessary to significantly improve system modeling and reliability. The changes create a likely nay be held to have a compliance gap for the non-performance/compliance of a non-NERC-registered
Comment The modifications made to MOD-032-2 may compel DER owners to provide the data the scenario under which a NERC-registered e entity. The proposed draft establishes a zero MVA Per the Technical Rationale, this includes expression of the scenario services of the scenario of the s	t would be necessary to significantly improve system modeling and reliability. The changes create a likely
Comment The modifications made to MOD-032-2 may compel DER owners to provide the data the scenario under which a NERC-registered e entity. The proposed draft establishes a zero MVA Per the Technical Rationale, this includes ean immense administrative burden on (NER	at would be necessary to significantly improve system modeling and reliability. The changes create a likely native may be held to have a compliance gap for the non-performance/compliance of a non-NERC-registered at threshold for the collection of all DER data "in non-isolated parallel operation with the Bulk Power System". very residential solar and commercial rooftop solar customer on the DP's systems. This would likely impose
The modifications made to MOD-032-2 may compel DER owners to provide the data the scenario under which a NERC-registered e entity. The proposed draft establishes a zero MVA Per the Technical Rationale, this includes e an immense administrative burden on (NER benefits.	ntity may be held to have a compliance gap for the non-performance/compliance of a non-NERC-registered threshold for the collection of all DER data "in non-isolated parallel operation with the Bulk Power System". very residential solar and commercial rooftop solar customer on the DP's systems. This would likely impose
The modifications made to MOD-032-2 may compel DER owners to provide the data the scenario under which a NERC-registered e entity. The proposed draft establishes a zero MVA Per the Technical Rationale, this includes e an immense administrative burden on (NEF benefits. Likes 0	at would be necessary to significantly improve system modeling and reliability. The changes create a likely native may be held to have a compliance gap for the non-performance/compliance of a non-NERC-registered at threshold for the collection of all DER data "in non-isolated parallel operation with the Bulk Power System". very residential solar and commercial rooftop solar customer on the DP's systems. This would likely impose

Kenya Streeter - Edison International - Southern California Edison Company - 1,3,5,6		
Answer	No	
Document Name		
Comment		
See comments submitted by the Edison Electric Institute		
Likes 0		
Dislikes 0		
Response		
David Jendras Sr - Ameren - Ameren Sei	rvices - 3	
Answer	No	
Document Name		
Comment		
Ameren supports EEI's comments on this p	roject	
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		
Sheila Suurmeier - Black Hills Corporation - 5		
Answer	No	

Document Name	
Comment	
	odifications made in MOD-032-2 will not improve system modeling and reliability as unregistered DPs are sti dditionally, the language changes impose regulatory compliance risk onto registered TO, or DP entities that registered entity" to the unregistered DPs.
Likes 0	
Dislikes 0	
Response	
Rachel Schuldt - Rachel Schuldt On Beh	alf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt
Answer	No
Document Name	
Comment	
	odifications made in MOD-032-2 will not improve system modeling and reliability as unregistered DPs are sti dditionally, the language changes impose regulatory compliance risk onto registered TO, or DP entities that registered entity" to the unregistered DPs.
Likes 0	
Dislikes 0	
Response	
Claudine Bates - Black Hills Corporation	- 6
Answer	No
Document Name	
Comment	
	odifications made in MOD-032-2 will not improve system modeling and reliability as unregistered DPs are sti dditionally, the language changes impose regulatory compliance risk onto registered TO, or DP entities that registered entity" to the unregistered DPs.
Likes 0	
Dislikes 0	
Response	

Carly Miller - Carly Miller On Behalf of: Micah Runner, Black Hills Corporation, 5, 6, 1, 3; - Carly Miller

Answer	No	
Document Name		
Comment		
Black Hills Corporation believes that the modifications made in MOD-032-2 will not improve system modeling and reliability as unregistered DPs are still not required to provide DER information. Additionally, the language changes impose regulatory compliance risk onto registered TO, or DP entities that are the "next closest electrically connected registered entity" to the unregistered DPs.		
Likes 0		
Dislikes 0		
Response		
Kinte Whitehead - Exelon - 3		
Answer	No	
Document Name		
Comment		
Exelon concurs with the comments submitted by the EEI.		
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 changes to MOD-032-2 because many of the changes would obligate TOs and DPs to provide data that exceeds their ability to obtain. EEI further notes that during the Fall 2023 NPCC Compliance and Reliability Conference a presentation titled "Inverter Based Resource Work Plan" was given and appears to use data from a Berkeley National Laboratory Report. The presentation goes on to indicate that BES IBRs (75MW at ≥100kV) account for 84% and non-BES (≥20MW & ≤75MW at ≥100kV plus ≥MW at <100kV) account for an additional 14%; for a total of 98% of the IBRs currently interconnected on the grid. This data additionally indicates that small IBRs (<20MW at any kV) only account for 2% of the connected IBRs and if correct, would mean these resources would have no meaningful impact on the Reliability of the BPS. Moreover, in FERC Order No. 901 (Reliability Standards to Address Inverter-Based Resources), the Commission made it clear that the focus of changes to NERC Reliability Standards, as it relates to modeling of DERs, is to be limited data to aggregate data not granular details on a non-aggregated basis. Given the NPCC data and FERC Order No. 901, it would indicate that many of the proposed changes to MOD-032 are unnecessary for reliability. This would include modifications to MOD-032 that propose to provide PCs/TPs with the authority to request data that is overly granular and unnecessary to model the impacts of DERs on the BPS. IBRs that have a meaningful impact on the BPS should be registered. Once this has been done, PCs and TPs could seek the data they need directly from the registered resource, not the TOs or DPs that are unlikely to have the needed data. While we recognize the

need to gather and model the impacts of DER resources on the distribution system, modeling should be limited to load demand and aggregate DER impacts/offsets. However, we do support obligating DER Aggregators who are participating in the organized markets to provide data on their aggregated resources to the PCs/TPs upon request. We do not support obligating TOs and DPs to gather non aggregated data, upon request. Likes 0		
Dislikes 0		
Response		
Посронос		
Marty Hostler - Northern California Power Agency - 3,4,5,6		
Answer	No	
Document Name		
Comment		
We agree with some comments provided by ACES, EEI, MRO, NAGF, and Talen but are not going to restate each item specifically, as others have already restated them. Also, we believe either a DP or TO who has another entity interconnecting with them has a marketing responsibility of modifying their Interconnection requirements if they deem it necessary for reliability in their BA.		
Likes 0		
Dislikes 0		
Response		
Jeremy Lawson - Northern California Power Agency - 3,4,5,6		
Jeremy Lawson - Northern California Po	wer Agency - 3,4,5,6	
Jeremy Lawson - Northern California Po	No	
•		
Answer		
Answer Document Name	No	
Answer Document Name Comment	No	
Answer Document Name Comment Hi, please reference comments by Marty Ho	No	
Answer Document Name Comment Hi, please reference comments by Marty Ho Thank you,	ostler, NCPA Compliance Manager.	
Answer Document Name Comment Hi, please reference comments by Marty He Thank you, Jeremy Lawson, P.E.	ostler, NCPA Compliance Manager.	

_ikes 0		
Dislikes 0		
Response		
Thomas Foltz - AEP - 5		
Answer	Yes	
Document Name		
Comment		
AEP thanks the SDT for adding the text in footnote 5 which states "Where DER is connected to an unregistered Distribution Provider, the next closest electrically connected registered entity (DP or TO) shall request DER data and pass through *available* information" and request that clarity be provided on exactly what is meant by "available information?" AEP believes that information that is requested (and perhaps even exists) but is not provided by the data owner should be considered unavailable. In addition, this scenario should be added to the others listed in the Technical Rationale document. Notwithstanding the SDT's response to our previous suggestion, AEP continues to believe that the best path forward for this proposed standard would be for those entities providing power at a minimum threshold to be registered as a Functional Entities and to provide DER data. We recommend that the SDT establish an aggregate minimum threshold, similar to what was recently proposed by NERC in regard to IBRs. As is the case in existing standards where Generator Owners are obligated to provide similar data, entities who possess the needed DER data noted in the Attachment One revisions should likewise be registered and explicitly obligated to provide this data as well. While we are unsure if the existing Functional Entities classes are hemselves sufficient, or if instead, a new class of Functional Entities might need to be considered and developed, the need nonetheless exists. NERC may wish to also consider the potential that such obligations could potentially cross Federal and State jurisdictional lines of responsibility, further llustrating the complexity-of and challenges-in developing obligations to obtain the DER data in the revised Attachment One.		
Likes 0		
Dislikes 0		
Response		
Duane Franke - Manitoba Hydro - 1,3,5,6 - MRO		
Answer	Yes	
Document Name		
Comment		
n principle, getting more "reasonably accurate" DER models into the regional models should help to improve reliability. There could be some risk to reliability if DER dispatch in models is higher than expected as this could mask load serving reliability issues. MOD-032 regional model building groups need to provide guidelines on what level of DER should be included in each seasonal model. Studying appropriate sensitivity cases should be part of TPL-001 scope.		
ikes 0		
Dislikes 0		

Response		
Wayne Sipperly - North American Genera	Wayne Sipperly - North American Generator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF	
Answer	Yes	
Document Name		
Comment		
The NAGF believes that including DERs will improve system modeling and reliability.		
Likes 0		
Dislikes 0		
Response		
Scott Brame - Scott Brame On Behalf of: Chris Dimisa, North Carolina Electric Membership Corporation, 4, 3, 5; Reid Cashion, North Carolina Electric Membership Corporation, 4, 3, 5; Richard McCall, North Carolina Electric Membership Corporation, 4, 3, 5; - Scott Brame, Group Name NCEMC		
Answer	Yes	
Document Name		
Comment		
The latest draft of MOD-032 no longer requires reactive power information to be collected for DERs. While most smaller systems really only operate at unity, it is the belief of NCEMC having this information will allow planners to more accurately model Distributed Energy Resources, thereby improving grid reliability. Thus, NCEMC recommends that reactive power data collection for DERs be required by MOD-032.		
Likes 0		
Dislikes 0		
Response		
Bobbi Welch - Midcontinent ISO, Inc 2, Group Name ISO/RTO Council Standards Review Committee (IRC SRC) 2022-02 Modifications to MOD-032 Draft 2		
Answer	Yes	
Document Name		
Comment		

The SRC believes there is an urgent need to move forward with collecting DER data now. Additional DER data collection activities will be needed as the penetration of DERs increases; however, these modifications are a step in the right direction and more can be done over time. The revisions should also note that if the Planning Coordinator or Transmission Planner will obtain the information directly from the generator based on individual ISO Tariff or other local requirements that the TO or DP may not need to provide information listed in Attachment 1. Suggested revision is redlined below.

For steady-state:	
9. Distributed Energy Resource (DER) data [DP, TO where DER is directly connected to the TO system and not through a DP unless the generator will provide the data directly to the PC or TP based on individual Tariff or local provisions]	
a. Location (bus from item 1)	
b. Real power capability	
c. Generator type (solar, battery, etc.)	
d. DER capabilities related to ride-through, voltage control and/or frequency control or information that can be used to infer those capabilities for modeling purposes.	
For dynamics:	
	a including whether DER is subject to tripping in conjunction with UFLS and/or UVLS [DP, TO where DER is it through a DP, unless the generator will provide the data directly to the PC or TP based on individual
Likes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Aut	hority - 1,3,5,6 - SERC
Answer	Yes
Document Name	
Comment	
future scenarios and develop plans accordi	data by the PC/TP for the purposes of power system modeling should enhance the PC/TP's ability to study ngly, we are concerned with the future compliance interpretation for Requirement R4. That is, how might the for Interconnection-wide case(s) in regard to DER data?
Likes 0	
Dislikes 0	
Response	
Alyssia Rhoads - Public Utility District N	o. 1 of Snohomish County - 1
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Anne Kronshage - Public Utility District	No. 1 of Chelan County - 6, Group Name Public Utility District No. 1 of Chelan County - Voting Group
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Andrea Jessup - Bonneville Power Admi	inistration - 1,3,5,6 - 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	
Martin Sidor - NRG - NRG Energy, Inc (6

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Robert Follini - Avista - Avista Corporation	on - 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Glen Farmer - Avista - Avista Corporation	n - 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	
	Behalf of: Carl Spaetzel, Buckeye Power, Inc., 4, 3, 5; Jason Procuniar, Buckeye Power, Inc., 4, 3, 5; Kevin c., 4, 3, 5; - Ryan Strom, Group Name Buckeye Power Group
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ruchi Shah - AES - AES Corpo	oration - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Andy Fuhrman - Andy Fuhrma	an On Behalf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Leslie Hamby - Southern India	ana Gas and Electric Co 3,5,6 - RF

Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Rachel Coyne - Texas Reliability Entity, Inc 10		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Daniela Atanasovski - APS - Arizona Pub	olic Service Co 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC		
Answer	Yes	
Document Name		
Comment		
Likes 0		

Dislikes 0	
Response	
Steven Rueckert - Western Electricity Co	pordinating Council - 10, Group Name WECC Entity Monitoring
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Helen Lainis - Independent Electricity Sy	vstem Operator - 2
Answer	Yes
Document Name	
Comment	
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	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		
Kennedy Meier - Electric Reliability Cour	ncil of Texas, Inc 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		
Constantin Chitescu - Ontario Power Generation Inc 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		

Dislikes 0	
Response	
Apollonia Gonzales - PNM Resources - F	Public Service Company of New Mexico - NA - Not Applicable - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

4. Do you agree the modifications made in MOD-032-2 are cost effective?		
Jeremy Lawson - Northern California Power Agency - 3,4,5,6		
Answer	No	
Document Name		
Comment		
Hi, please reference comments by Marty He	ostler, NCPA Compliance Manager.	
Thank you,		
Jeremy Lawson, P.E.		
Generation Services Director of Engineering	g g	
Northern California Power Agency		
Likes 0		
Dislikes 0		
Response		
Marty Hostler - Northern California Powe	er Agency - 3,4,5,6	
Answer	No	
Document Name		
Comment		
Additionally, the SDT has not stated a cost the SDT. SDT frequently asks this question	or benefit to said modifications. No standard should be allowed if a cost/benefit analysis is not provided by but never provides a cost/benefit justification, simply someone says there is a reliability gap, or a risk, but try indices improvement numbers or a cost to fill the alleged gap or risk, is not good justification to create	
Likes 0		
Dislikes 0		
Response		

Jennifer Bray - Arizona Electric Power Cooperative, Inc 1	
Answer	No
Document Name	
Comment	
	ed changes are not cost effective. It is our belief that requiring the DP to collect data for all DER/IBR iability impact, will create an unnecessary compliance burden and only provide a marginally increased
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	
	ed changes are not cost effective. It is our belief that requiring the DP to collect data for all DER/IBR iability impact, will create an unnecessary compliance burden and only provide a marginally increased
Likes 0	
Dislikes 0	
Response	
	: Chris Dimisa, North Carolina Electric Membership Corporation, 4, 3, 5; Reid Cashion, North Carolina ; Richard McCall, North Carolina Electric Membership Corporation, 4, 3, 5; - Scott Brame, Group
Answer	No
Document Name	
Comment	
T	· · · · · · · · · · · · · · · · · · ·

The latest draft of MOD-032 no longer requires reactive power information to be collected for DERs. While most smaller systems really only operate at unity, it is the belief of NCEMC having this information will allow planners to more accurately model Distributed Energy Resources, thereby improving

grid reliability and potentially allowing for so that reactive power data collection for DERs	olutions which reduce cost by taking DER reactive power capability into account. Thus, NCEMC recommends so be required by MOD-032.
Likes 0	
Dislikes 0	
Response	
Kenya Streeter - Edison International - S	outhern California Edison Company - 1,3,5,6
Answer	No
Document Name	
Comment	
See comments submitted by the Edison Ele	ectric Institute
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 requests that the SDT address to look for and follow TP/PC process. If reliable expecting those that need to supply informations.	equately assess the cost effectiveness of the proposed approach. the process under MOD-032 to require the TP/PC to request data each year rather than require the GO to go ility is really the goal, an active request for data is likely to receive a much higher response rate than ation to go looking for when, where and how they need to provide it. The NAGF believes that it is extremely for information to determine when they need to provide data than it is for a few entities to send out emails
Likes 0	
Dislikes 0	
Response	
Alison MacKellar - Constellation - 5	
Answer	No
Document Name	

Comment	
Inclusion of small DERs is extremely cost b	ourdensome for Generator Owners.
Alison Mackellar on behalf of Constellation	Segments 5 and 6
Likes 0	
Dislikes 0	
Response	
Greg Davis - Georgia Transmission Corp	ooration - 1
Answer	No
Document Name	
Comment	
reliability. However, if DER penetrations ar administrative work and compliance burder DER owner has no obligation to provide, th	vels are high in a particular area, the changes in MOD-032-2 could have a positive impact on the register of the reliability of the BES, DPs and TOs will have added unnecessary in for the purpose of checking a compliance box. Additionally, if the TO/DP is required to report data that the restandard should address how the RE intends to handle situations where the unregistered Distribution at a to the registered DP or TO. Otherwise, the TO/DP may be subject to fines and penalties for non-the control of the TO/DP.
Likes 0	
Dislikes 0	
Response	
Alan Kloster - Alan Kloster On Behalf of Tiffany Lake, Evergy, 3, 5, 1, 6; - Alan Klo	: Jeremy Harris, Evergy, 3, 5, 1, 6; Kevin Frick, Evergy, 3, 5, 1, 6; Marcus Moor, Evergy, 3, 5, 1, 6; oster
Answer	No
Document Name	
Comment	
Evergy supports and incorporates by refere	ence the comments of the MRO NSRF for question #4.
Likes 0	
Dislikes 0	
Response	

LaTroy Brumfield - American Transmission Company, LLC - 1

Answer	No
Document Name	
Comment	
ATC does not believe that MOD-032-2 Draf the NERC Registered DPs and TOs potenti	t 2 is cost effective as it is written. The requirements would likely impose a huge administrative burden on ally requiring additional staff.
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Shannon Mickens On SPP RTO	n Behalf of: Joshua Phillips, Southwest Power Pool, Inc. (RTO), 2; - Shannon Mickens, Group Name
Answer	No
Document Name	
Comment	
many in the industry.	32-2 modifications. The required to collect data on DERs, IBRs, and ESRs that have the potential to create cost increases for the reason are take into consideration evaluation the cost effectiveness from the FERC Order 2222 and IEEE
Response	
Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF	
Answer	No
Document Name	
Comment	
See comments submitted by the Edison Electric Institute for Duke Energy's official response.	
Likes 0	
Dislikes 0	

Response	
Hillary Creurer - Allete - Minnesota Pow	er, Inc 1
Answer	No
Document Name	
Comment	
Minnesota Power supports MRO's NERC S	Standards Review Forum's (NSRF) comments.
Likes 0	
Dislikes 0	
Response	
Andy Fuhrman - Andy Fuhrman On Beh	alf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman
Answer	No
Document Name	
Comment	
MPC supports comments submitted by AC	ES and the MRO NERC Standards Review Forum.
Likes 0	
Dislikes 0	
Response	
Selene Willis - Edison International - So	uthern California Edison Company - 5
Answer	No
Document Name	
Comment	
"See comments submitted by the Edison Electric Institute"	
Likes 0	
Dislikes 0	
Response	

Kacie Fischer - Kacie Fischer On Behalf	of: Byron Booker, Oncor Electric Delivery, 1; - Kacie Fischer
Answer	No
Document Name	
Comment	
	level of assumptions TOs/TPs are allowed to make in the DER data modeling. If high precision in data a resource's time, which will increase costs.
Likes 0	
Dislikes 0	
Response	
	Carl Spaetzel, Buckeye Power, Inc., 4, 3, 5; Jason Procuniar, Buckeye Power, Inc., 4, 3, 5; Kevin Ryan Strom, Group Name Buckeye Power Group
Answer	No
Document Name	
Comment	
	ed changes are not cost effective. It is our belief that requiring the DP to collect data for all DER/IBR lability impact, will create an unnecessary compliance burden and only provide a marginally increased
Likes 0	
Dislikes 0	
Response	
Dwanique Spiller - Berkshire Hathaway	NV Energy - 5
Answer	No
Document Name	
Comment	
	fications in MOD-032-2 are cost effective. As proposed MOD-032-2 would likely impose a immense d) Distribution Providers and Transmission Owners, while not delivering significant reliability benefits.
Likes 0	
Dislikes 0	
Response	

Mike Magruder - Avista - Avista Corpora	tion - 1	
Answer	No	
Document Name		
Comment		
The effort required to model all DER's, regauntil additional regulations are in place requ	ardless of size, is considerable and likely not achievable with non-registered entities. This is likely an exercise uiring information at appropriate levels.	
Likes 0		
Dislikes 0		
Response		
Kimberly Turco - Constellation - 6		
Answer	No	
Document Name		
Comment		
Inclusion of small DER's is extremely cost burdensome for generator owners.		
Kimberly Turco on behalf of Constellation S	Segments 5 and 6	
Likes 0		
Dislikes 0		
Response		
Glen Farmer - Avista - Avista Corporatio	n - 5	
Answer	No	
Document Name		
Comment		
The effort required to model all DER's, regardless of size, is considerable and likely not achievable with non-registered entities. This is likely an exercise until additional regulations are in place requiring information at appropriate levels.		
Likes 0		
Dislikes 0		

Response		
Robert Follini - Avista - Avista Corporation	on - 3	
Answer	No	
Document Name		
Comment		
The effort required to model all DER's, regardless of size, is considerable and likely not achievable with non-registered entities. This is likely an exercise until additional regulations are in place requiring information at appropriate levels.		
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		
No it requires a huge amount of effort that is why we need to have a clearly defined scope and a better defined process for registering non-registered DPs.		
Likes 0		
Dislikes 0		
Response		
Eric Sutlief - CMS Energy - Consumers Energy Company - 3,4,5 - RF		
Answer	No	
Document Name		
Comment		
The administrative burden to provide accurate modeling of aggregated R-DER does not outweigh marginal modeling benefits. It is recommended NERC focus on utility scale DER and assuming little to no support from residential DER during system events. A compromise may be to add a threshold for the steady state and dynamic modeling requirements in MOD-032-2 and allow all other DER to be aggregated gross nameplate values reported by DP/TO entities which the PC can determine modeling parameters for based on industry research.		
Likes 0		

Dislikes 0		
Response		
Duane Franke - Manitoba Hydro - 1,3,5,6	- MRO	
Answer	No	
Document Name		
Comment		
It's unclear how much work will be needed to develop the models. We don't see the modifications made since the last draft is changing the cost effectiveness.		
Likes 0		
Dislikes 0		
Response		
Srikanth Chennupati - Entergy - 1,3,5,6 -	SERC	
Answer	No	
Document Name		
Comment		
We will not be able to assess the cost effectiveness of this process until the resulting procedure changes at MISO are finalized and we understand data requirements.		
Likes 0		
Dislikes 0		
Response		
Anna Martinson - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO Group		
Answer	No	
Document Name		
Comment		
MRO NSRF does not agree that the modifications in MOD-032-2 are cost effective. As proposed MOD-032-2 would likely impose a immense administrative burden on (NERC Registered) Distribution Providers and Transmission Owners, while not delivering significant reliability benefits.		
Likes 1	Lincoln Electric System, 5, Millard Brittany	

Dislikes 0	
Response	
Donna Wood - Tri-State G and T Associa	tion, Inc 1
Answer	No
Document Name	
Comment	
Tri-State Generation and Transmission sup	ports the MRO NSRF Comments.
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 does not agree that the NSRF.	e modifications made in MOD-032-2 are cost effective for the reasons stated by both EEI and the MRO
Likes 0	
Dislikes 0	
Response	
Donald Lock - Talen Generation, LLC - 5	
Answer	No
Document Name	
Comment	
GO/GOPs will need more information to ad	equately assess the cost effectiveness of the proposed approach
Likes 0	
Dislikes 0	
Response	

Joseph OBrien - NiSource - Northern Ind	liana Public Service Co 6
Answer	No
Document Name	
Comment	
Things appear to be specultive at this point	t.
Likes 0	
Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy C	Corporation - 4, Group Name FE Voter
Answer	No
Document Name	
Comment	
Until the intent of obligations assigned to the	e Applicable Entities are clear, FirstEnergy cannot determine the cost effectiveness.
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	
Likes 0	
Dislikes 0	
Response	

Ben Hammer - Western Area Power Adm	ninistration - 1
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Apollonia Gonzales - PNM Resources - F	Public Service Company of New Mexico - NA - Not Applicable - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Pub	olic Service Co 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
(Tacoma, WA), 1, 4, 5, 6, 3; John Nierenb	Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities perg, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike, Group Name Tacoma Power
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Israel Perez - Israel Perez On Behalf of: M Johnson, Salt River Project, 3, 1, 6, 5; Til	Mathew Weber, Salt River Project, 3, 1, 6, 5; Sarah Blankenship, Salt River Project, 3, 1, 6, 5; Thomas mothy Singh, Salt River Project, 3, 1, 6, 5; - Israel Perez
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Martin Sidor - NRG - NRG Energy, Inc 6	5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Anne Kronshage - Public Utility District I	No. 1 of Chelan County - 6, Group Name Public Utility District No. 1 of Chelan County - Voting Group
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Alyssia Rhoads - Public Utility District I	No. 1 of Snohomish County - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Au	thority - 1,3,5,6 - SERC
Answer	
Document Name	
Comment	
We offer no opinion on the cost effectivene	ess of the proposed changes.
Likes 0	
Dislikes 0	
Response	
Bobbi Welch - Midcontinent ISO, Inc 2 032 Draft 2	2, Group Name ISO/RTO Council Standards Review Committee (IRC SRC) 2022-02 Modifications to MOD-
Answer	
Document Name	
Comment	
No comment.	
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity C	coordinating Council - 10, Group Name WECC Entity Monitoring
Answer	

Document Name	
Comment	
No comment	
Likes 0	
Dislikes 0	
Response	
Carly Miller - Carly Miller On Behalf of: M	licah Runner, Black Hills Corporation, 5, 6, 1, 3; - Carly Miller
Answer	
Document Name	
Comment	
Black Hills Corporation will not provide com	ment on cost effectiveness.
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	
Rachel Schuldt - Rachel Schuldt On Beh	alf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt
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 com	ment on cost effectiveness.
Likes 0	
Dislikes 0	
Response	
David Jendras Sr - Ameren - Ameren Ser	vices - 3
Answer	
Document Name	
Comment	
Ameren has no comments on cost effective	ness of this project
Likes 0	
Dislikes 0	
Response	

5. Do you agree with the Implementation Plan for revised MOD-032-2? Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter	
Document Name	
Comment	
Until the intent of obligations assigned to th	e Applicable Entities are clear, FirstEnergy cannot support the Implementation Plan.
Likes 0	
Dislikes 0	
Response	
Thomas Foltz - AEP - 5	
Answer	No
Document Name	
Comment	
	d to accommodate the work pertaining to assets newly brought into scope. Rather than being required to the definition has become effective, we instead suggest it be 24 months after the definition has become
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 does not agree with the	e Implementation Plan for the reasons stated by both EEI and the MRO NSRF.
Likes 0	
Dislikes 0	

Response	
Donna Wood - Tri-State G and T Associa	tion, Inc 1
Answer	No
Document Name	
Comment	
Tri-State Generation and Transmission sup	ports the MRO NSRF Comments.
Likes 0	
Dislikes 0	
Response	
Anna Martinson - MRO - 1,2,3,4,5,6 - MRO	D, Group Name MRO Group
Answer	No
Document Name	
Comment	
develop their data requirements, yet the ent	n Plan is not long enough for Requirements R2, R3, and R4. It The PCs and TPs are given 24 months to tities required to submit said data are only given 12 months to collect and provide the data to the PC/TP. The d R4 should be extended to at least 18 months (preferably 24 months) after the effective date of MOD-032-
Likes 1	Lincoln Electric System, 5, Millard Brittany
Dislikes 0	
Response	
Eric Sutlief - CMS Energy - Consumers E	nergy Company - 3,4,5 - RF
Answer	No
Document Name	
Comment	

If MOD-032-2 is approved as-is, utilities will need to increase resourcing to accommodate the additional modeling complexities and data collection. DP's, in particular, may not have staffing experience in dynamic modeling, which would lead to a need to establish contractors with the experience or hire/train internal staff. The ability to request the level of information to create dynamic models of DER also falls to the authority of RERRAs. Depending on the existing interconnection procedures, state or local government authorities may need to approve revisions to interconnection requirements. 12 months after the approval date is too soon to require compliance.

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		
DER definition needs to be clarified first.		
Likes 0		
Dislikes 0		
Response		
Diana Aguas - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE		
Answer	No	
Document Name		
Comment		
CEHE does not support of the proposed changes to MOD-032-2 and therefore cannot support the Implementation Plan.		
Likes 0		
Dislikes 0		
Response		
Dwanique Spiller - Berkshire Hathaway - NV Energy - 5		
Answer	No	
Document Name		
Comment		

The timeline proposed in the Implementation Plan is not long enough for Requirements R2, R3, and R4. It The PCs and TPs are given 24 months to develop their data requirements, yet the entities required to submit said data are only given 12 months to collect and provide the data to the PC/TP. The Phased-In Compliance Dates for R2, R3 and R4 should be extended to at least 18 months (preferably 24 months) after the effective date of MOD-032-2.

Likes 0	
Dislikes 0	
Response	
	Carl Spaetzel, Buckeye Power, Inc., 4, 3, 5; Jason Procuniar, Buckeye Power, Inc., 4, 3, 5; Kevin Ryan Strom, Group Name Buckeye Power Group
Answer	No
Document Name	
Comment	
given 24 months to develop their data requi PC/TP. We believe that the Phased-In Com- effective date of MOD-032-2.	ts of ACES: on Plan is not long enough for Requirements R2, R3, and R4. It is surprising to us that the PCs and TPs are irements, yet the entities required to submit said data are only given 12 months to collect and provide it to the appliance Dates for R2, R3 and R4 should be extended to at least 18 months (preferably 24 months) after the
Likes 0	
Dislikes 0	
Response	
Adrian Andreoiu - BC Hydro and Power	Authority - 1, Group Name BC Hydro
Answer	No
Document Name	
Comment	
Based on the rationale provided in our resp	onse to Question 3 above, BC Hydro is unable to support the proposed Implementation Plan at this time.
Likes 0	
Dislikes 0	
Response	
Selene Willis - Edison International - Sou	ıthern California Edison Company - 5
Answer	No
Document Name	
Comment	

"See comments submitted by the Edison Electric Institute"		
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		
MPC supports comments submitted by AC	ES and the MRO NERC Standards Review Forum.	
Likes 0		
Dislikes 0		
Response		
Hillary Creurer - Allete - Minnesota Power	er, Inc 1	
Answer	No	
Document Name		
Comment		
Minnesota Power supports MRO's NERC Standards Review Forum's (NSRF) comments.		
Likes 0		
Dislikes 0		
Response		
Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF		
Answer	No	
Document Name		
Comment		
See comments submitted by the Edison Ele	ectric Institute for Duke Energy's official response.	

Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Shannon Mickens On SPP RTO	n Behalf of: Joshua Phillips, Southwest Power Pool, Inc. (RTO), 2; - Shannon Mickens, Group Name
Answer	No
Document Name	
Comment	
R1. In order for industry to implement these	of Requirements R2, R3 and R4 become effective 24 – 36 months after the implementation of Requirement changes we believe it will require a large transitional curve for requesting and providing the data. Newly and ensure that the new process is efficient and reliable.
Likes 0	
Dislikes 0	
Response	
LaTroy Brumfield - American Transmiss	ion Company, LLC - 1
Answer	No
Document Name	
Comment	
While ATC does not have any particular concerns with the timing outlined in the implementation plan as proposed, we are opposed to the rest of the standard and DER definition as written, and its associated responsibilities, we therefore do not agree with the implementation plan of the proposed version.	
Likes 0	
Dislikes 0	
Response	
Alan Kloster - Alan Kloster On Behalf of: Tiffany Lake, Evergy, 3, 5, 1, 6; - Alan Klo	Jeremy Harris, Evergy, 3, 5, 1, 6; Kevin Frick, Evergy, 3, 5, 1, 6; Marcus Moor, Evergy, 3, 5, 1, 6; oster
Answer	No
Document Name	
Document Name	

Evergy supports and moorporates by refere	nce the comments of the MRO NSRF for question #5.
Likes 0	
Dislikes 0	
Response	
Greg Davis - Georgia Transmission Corp	oration - 1
Answer	No
Document Name	
Comment	
It is not prudent to agree with the implement Distribution Provider does not provide the re	tation plan until the standard addresses how the RE intends to handle situations where the unregistered equested data to the registered DP or TO.
Likes 0	
Dislikes 0	
Response	
Ben Hammer - Western Area Power Adm	inistration - 1
Answer	No
Document Name	
Comment	
The timeline proposed in the Implementatio develop their data requirements, yet the en	n Plan is not long enough for Requirements R2, R3, and R4. It The PCs and TPs are given 24 months to tities required to submit said data are only given 12 months to collect and provide the data to the PC/TP. The d R4 should be extended to at least 18 months (preferably 24 months) after the effective date of MOD-032-
The timeline proposed in the Implementatio develop their data requirements, yet the enterphased-In Compliance Dates for R2, R3 and	tities required to submit said data are only given 12 months to collect and provide the data to the PC/TP. The
The timeline proposed in the Implementatio develop their data requirements, yet the enterprise Phased-In Compliance Dates for R2, R3 and 2.	tities required to submit said data are only given 12 months to collect and provide the data to the PC/TP. The
The timeline proposed in the Implementation develop their data requirements, yet the entire Phased-In Compliance Dates for R2, R3 and 2. Likes 0	tities required to submit said data are only given 12 months to collect and provide the data to the PC/TP. The
The timeline proposed in the Implementation develop their data requirements, yet the entire Phased-In Compliance Dates for R2, R3 and 2. Likes 0 Dislikes 0	tities required to submit said data are only given 12 months to collect and provide the data to the PC/TP. The
The timeline proposed in the Implementation develop their data requirements, yet the entire Phased-In Compliance Dates for R2, R3 and 2. Likes 0 Dislikes 0 Response	tities required to submit said data are only given 12 months to collect and provide the data to the PC/TP. The
The timeline proposed in the Implementation develop their data requirements, yet the entire Phased-In Compliance Dates for R2, R3 and 2. Likes 0 Dislikes 0 Response	tities required to submit said data are only given 12 months to collect and provide the data to the PC/TP. The dR4 should be extended to at least 18 months (preferably 24 months) after the effective date of MOD-032-
The timeline proposed in the Implementation develop their data requirements, yet the entire Phased-In Compliance Dates for R2, R3 and 2. Likes 0 Dislikes 0 Response Kenya Streeter - Edison International - S	tities required to submit said data are only given 12 months to collect and provide the data to the PC/TP. The d R4 should be extended to at least 18 months (preferably 24 months) after the effective date of MOD-032-

See comments submitted by the Edison Electric Institute		
Likes 0		
Dislikes 0		
Response		
David Jendras Sr - Ameren - Ameren Sei	rvices - 3	
Answer	No	
Document Name		
Comment		
Ameren supports EEI's comments on this p	roject	
Likes 0		
Dislikes 0		
Response		
	Chris Dimisa, North Carolina Electric Membership Corporation, 4, 3, 5; Reid Cashion, North Carolina; Richard McCall, North Carolina Electric Membership Corporation, 4, 3, 5; - Scott Brame, Group	
Answer	No	
Document Name		
Comment		
NCEMC support comments of ACES.		
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	
Kinte Whitehead - Exelon - 3	
Answer	No
Document Name	
Comment	
Exelon concurs with the comments submitte	ed by the EEI.
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	
given 24 months to develop their data requi	on Plan is not long enough for Requirements R2, R3, and R4. It is surprising to us that the PCs and TPs are irements, yet the entities required to submit said data are only given 12 months to collect and provide it to the apliance Dates for R2, R3 and R4 should be extended to at least 18 months (preferably 24 months) after the
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA	Դ - Not Applicable - NA - Not Applicable
Answer	No
Document Name	
Comment	

EEI does not support the proposed change	s made to MOD-032 and therefore cannot support the Implementation Plan at this time as a result.
Likes 0	
Dislikes 0	
Response	
Jennifer Bray - Arizona Electric Power C	cooperative, Inc 1
Answer	No
Document Name	
Comment	
given 24 months to develop their data requ	on Plan is not long enough for Requirements R2, R3, and R4. It is surprising to us that the PCs and TPs are irements, yet the entities required to submit said data are only given 12 months to collect and provide it to the appliance Dates for R2, R3 and R4 should be extended to at least 18 months (preferably 24 months) after the
Likes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Aut	hority - 1,3,5,6 - SERC
Answer	No
Document Name	
Comment	
date for the initial performance of R2, R3 and data reporting requirements related to DER	we suggest the implementation plan be revised to allow 24 months (rather than 12 months) after the effective and R4. The drafting team's "expectation" that TOs and DPs would participate in PC/TP processes to change developed during the 24 months prior to the effective date of R1, thereby allowing TOs and DPs to start nethods more than 12 months prior to the effective dates of R2, R3, and R4 is not assured.
Likes 0	
Dislikes 0	
Response	
Marty Hostler - Northern California Powe	er Agency - 3,4,5,6

Answer	No	
Document Name		
Comment		
It should not be implemented as currently d	rafted and until a cost benefit analysis is provided.	
Likes 0		
Dislikes 0		
Response		
Jeremy Lawson - Northern California Po	wer Agency - 3,4,5,6	
Answer	No	
Document Name		
Comment		
Hi, please reference comments by Marty He	ostler, NCPA Compliance Manager.	
Thank you,		
Jeremy Lawson, P.E.		
Generation Services Director of Engineering	g	
Northern California Power Agency		
Likes 0		
Dislikes 0		
Response		
Sheila Suurmeier - Black Hills Corporation - 5		
Answer	No	
Document Name		
Comment		
Likes 0		

Dislikes 0	
Response	
Rachel Schuldt - Rachel Schuldt On Beh	alf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Claudine Bates - Black Hills Corporation	- 6
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Carly Miller - Carly Miller On Behalf of: N	licah Runner, Black Hills Corporation, 5, 6, 1, 3; - Carly Miller
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kimberly Turco - Constellation - 6	
Answer	Yes

Document Name		
Comment		
Constellation has no additional comments		
Kimberly Turco on behalf of Constellation Segments 5 and 6		
Likes 0		
Dislikes 0		
Response		
Alison MacKellar - Constellation - 5		
Answer	Yes	
Document Name		
Comment		
Constellation has no additional comments		
Alison Mackellar on behalf of Constellation	Segments 5 and 6	
Likes 0		
Dislikes 0		
Response		
Wayne Sipperly - North American General	ator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF	
Answer	Yes	
Document Name		
Comment		
The NAGF supports the proposed Implementation Plan.		
Likes 0		
Dislikes 0		
Response		

Company	butnern Company Services, Inc 1,3,5,6 - MRO, WECC, I exas RE, SERC, RF, Group Name Southern
Answer	Yes
Document Name	
Comment	
Southern supports the comments by EEI or	n potential implementation challenges.
Likes 0	
Dislikes 0	
Response	
Alyssia Rhoads - Public Utility District N	o. 1 of Snohomish County - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Anne Kronshage - Public Utility District	No. 1 of Chelan County - 6, Group Name Public Utility District No. 1 of Chelan County - Voting Group
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		
Utility District, 3, 6, 4, 1, 5; Kevin Smith, I	arles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Balancing Authority of Northern California, 1; Nicole Looney, Sacramento Municipal Utility District, 3, 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		
Donald Lock - Talen Generation, LLC - 5		
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		
Srikanth Chennupati - Entergy - 1,3,5,6 - SERC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Duane Franke - Manitoba Hydro - 1,3,5,6	- MRO	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Robert Follini - Avista - Avista Corporati	on - 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Glen Farmer - Avista - Avista Corporatio		
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		
Kacie Fischer - Kacie Fischer On Behalf	of: Byron Booker, Oncor Electric Delivery, 1; - Kacie Fischer	
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		

Israel Perez - Israel Perez On Behalf of: Mathew Weber, Salt River Project, 3, 1, 6, 5; Sarah Blankenship, Salt River Project, 3, 1, 6, 5; Thomas Johnson, Salt River Project, 3, 1, 6, 5; Timothy Singh, Salt River Project, 3, 1, 6, 5; - Israel Perez		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Leslie Hamby - Southern Indiana Gas an	d Electric Co 3,5,6 - RF	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Rachel Coyne - Texas Reliability Entity, Inc 10		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
(Tacoma, WA), 1, 4, 5, 6, 3; John Nierenb	Hien Ho, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; John Merrell, Tacoma Public Utilities berg, Tacoma Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; Ozan Ferrin, Tacoma Public Utilities (Tacoma, Public Utilities (Tacoma, WA), 1, 4, 5, 6, 3; - Jennie Wike, Group Name Tacoma Power	
Answer	Yes	

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Puk	olic Service Co 1
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	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
John Pearson - ISO New England, Inc 2	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Helen Lainis - Independent Electricity Sy	vstem Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Bobbi Welch - Midcontinent ISO, Inc 2 032 Draft 2	, Group Name ISO/RTO Council Standards Review Committee (IRC SRC) 2022-02 Modifications to MOD-
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	
Constantin Chitescu - Ontario Power Ge	neration Inc 5
Answer	Yes

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Apollonia Gonzales - PNM Resources - F	Public Service Company of New Mexico - NA - Not Applicable - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Joseph OBrien - NiSource - Northern Ind	iana Public Service Co 6
Answer	
Document Name	
Comment	
Hard to tell at this point.	
·	
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity Co	pordinating Council - 10, Group Name WECC Entity Monitoring
Answer	
Document Name	
Comment	
no comment	

Likes 0	
Dislikes 0	
Response	

6. Provide any additional comments for t	the standard drafting team to consider, if desired.
Apollonia Gonzales - PNM Resources - P	Public Service Company of New Mexico - NA - Not Applicable - WECC
Answer	
Document Name	
Comment	
N/A	
Likes 0	
Dislikes 0	
Response	
Marty Hostler - Northern California Powe	er Agency - 3,4,5,6
Answer	
Document Name	
Comment	
already restated them.	y ACES, EEI, MRO, NAGF, and Talen but are not going to restate each item specifically, as others have
	or submitting data for modelling, they should be getting data they feel they need; not what some other entity ata they should be responsible for getting said data.
	and/or the TO or DP should modify and/or enforce their market and/or interconnection rules to require load nected to a BA's area) provide said data. It appears we are trying to draft new standards continent wide for
	to complete an EIA-861 form annually. We suggest that the entity needing said data use data that is nacro to populate each year's data (which EIA already has) with the bus numbers for each utility so it can be bus.
The entity needing the data can call each u	tility or the TO that services them in order to get the appropriate bus number.
call and find out the bus numbers to assign	nt talking about the issue and trying to develop a standard then it would take the entity that wants the data to to data that already exists. Then the entity needing said data can get it annually from the public EIA website Much simpler and less costly for everyone.
Likes 0	
Dislikes 0	
Response	

Constantin Chitescu - Ontario Power Generation Inc 5		
Answer		
Document Name		
Comment		
OPG supports NPCC Regional Standards C	Committee's comments.	
Likes 0		
Dislikes 0		
Response		
Dennis Chastain - Tennessee Valley Auth	nority - 1,3,5,6 - SERC	
Answer		
Document Name		
Comment		
Comments on "Attachment 1": Footnote 2 is concerning since the way we collect and forecast aggregate load data is metering that is unaware of any DER impacts. The suggestion in the technical rationale isn't possible to do cleanly. ("In situations where DER is not separately metered, a comparison to historical load levels can be used to approximate the addition of DER on the distribution feeder. A consistent reduction in load on the feeder may be indicative of DER interconnections.") We would prefer the standard more explicitly allow for estimation by either reported DER nameplate capacity, or by estimated % of load (i.e., if no better information is available, perhaps use the data you do have to estimate DER as a % of peak load).		
Dynamics reporting requirement # 10 reads	:	
"Distributed Energy Resource (DER) data including whether DER is subject to tripping in conjunction with UFLS and/or UVLS [DP, TO where DER is directly connected to the TO system and not through a DP]"		
The added detail here is more burdensome, and is almost certainly not going to be available. The technical rationale says:		
"The SDT intentionally maintained flexible language as to whether the underlying DER data originates from interconnection documentation, measured quantities, estimated quantities, or other sources."		
However the addition of requirements for more specific data seems to go against the characterization that "estimated quantities" are acceptable.		
Steady-state reporting requirement #9 has a	a footnote 4 that reads:	

	ts and reporting procedures developed per R1 will specify data flow processes and the required level of ordinate with the DP or TO to determine appropriate equivalent distribution system impedance."
model distribution impedance. In most case apply to dynamic load models that consider this is inconsistent with the approach used t equivalent impedance to that motor. And or stipulates the use of dynamic load models for	equivalent distribution system impedance to DER is perplexing. First because steady-state models do not es, everything (including the main distribution transformers) is lumped into the aggregate load. This does equivalent distribution system impedances, but there is no practical way to vary that for every DER. And to model motor loads. For example, there is no requirement to report every individual motor and the ne could argue that the motor load has a vastly more important effect on the system than DER. TPL-001-5.1 for Stability analysis but allows for the use of an aggregate System Load model. No further details or ive to the load model that's used. If it is okay to develop those load models in estimated, aggregate form, and for DER?
	difications for DER data is getting too detailed and there needs to be very clear and explicit language that eptable if more detailed data is not available.
Likes 0	
Dislikes 0	
Response	
Kennedy Meier - Electric Reliability Coun	icil of Texas, Inc 2
Answer	
Document Name	
Comment	
may not be consistent with footnote 5. ERC "[DP, TO]" and modifying footnote 5 to read The registered entity (TO or DP) to which	ed to the TO system and not through a DP" in steady state item 9 (and dynamics item 10) from Attachment 1 COT recommends simplifying the responsibility assignment in steady state item 9 (and dynamics item 10) to as follows: DER is connected is responsible for reporting DER data in accordance with PC/TP modeling data developed under Requirement R1. Where DER is connected to an unregistered Distribution Provider, the
	d entity (DP or TO) shall request DER data and pass through available information. An unregistered ty meeting the NERC Glossary of Terms definition of Distribution Provider. This footnote is also applicable
Likes 0	
Dislikes 0	
Response	
Jennifer Bray - Arizona Electric Power Co	ooperative, Inc 1
Answer	
Document Name	

Comment	
AEPC signed on to ACES comments:	
We have a great deal of apprehension as it	relates to proposed language in Footnote 5 of Attachment 1. Footnote 5 states (emphasis added):
DER data and pass through available inform	od Distribution Provider, the next closest electrically connected registered entity (DP or TO) shall request nation. An unregistered Distribution Provider is an unregistered entity meeting the NERC Glossary of Terms ote is also applicable to item 10 under the "dynamics" column."
owned by an unregistered DP has a feeder	nich registered entity is the "next closest electrically connected". Consider the case wherein a substation from 2 different registered entities. Who is to make the determination as to which registered entity is the w? In order to make this determination, a certain amount of knowledge about the other entity's infrastructure
with collecting said data (see Technical Rati	clusion of data from unregistered entities despite the open acknowledgment by the SDT of the challenges ionale, paragraph 2). We recommend that the SDT postpone further development of this Project until the ave been approved and can be included in the next draft of MOD-032-2.
Thank you for the opportunity to comment.	
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA	- Not Applicable - NA - Not Applicable
Answer	
Document Name	
Comment	
conducted by this SDT, we suggest that a tv	s a low priority project. While we understand this may have some immediate impacts on the work being wo phased approach for the revision of MOD-032 might address the immediate concerns surrounding efforts Phase 1: Consider completing the work from project 2017-02 Standards Alignment with Registration:

conducted by this SDT, we suggest that a two phased approach for the revision of MOD-032 might address the immediate concerns surrounding efforts to align registration under Project 2017-02. Phase 1: Consider completing the work from project 2017-02 Standards Alignment with Registration: Replace Load-Serving Entity (LSE) with Distribution Provider (DP), remove the Planning Authority (PA) functional entity name and keep the Planning Coordinator (PC) functional entity name, and make the associated LSE / DP functional changes to the standard requirements. Phase 2: Please consider addressing additional DER data requirements, after further discussion regarding how GO-IBR and GOP-IBR standards are going to be addressed and what is needed from Distribution Providers regarding unregistered IBRs.

	he questions above and our suggests related to project phasing, we are additionally concerned with ould be deleted because the next closest DP or TO to an unregistered distribution provider, should not be tside of their control or ability to collect.	
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		
Document Name		
Comment		
We have a great deal of apprehension as it	relates to proposed language in Footnote 5 of Attachment 1. Footnote 5 states (emphasis added):	
connected registered entity (DP or TO) shall information. An unregistered Distribution Pr	ed Distribution Provider, the next closest electrically Il request DER data and pass through available ovider is an unregistered entity meeting the NERC Provider. This footnote is also applicable to item 10	
owned by an unregistered DP has a feeder	nich registered entity is the "next closest electrically connected". Consider the case wherein a substation from 2 different registered entities. Who is to make the determination as to which registered entity is the w? In order to make this determination, a certain 's infrastructure is required.	
Of even greater concern is the continued inclusion of data from unregistered entities despite the open acknowledgment by the SDT of the challenges with collecting said data (see Technical Rationale, paragraph 2). We recommend that the SDT postpone further development of this Project until the GO-IBR and GOP-IBR registration criteria have been approved and can be included in the next draft of MOD-032-2.		
Additionally ACES collected the following co	omments for the consideration of the SDT:	
 "Once the GO-IBR standards are in place, the DP should not be part of this equation at all. This is especially true of non-registered members. Put the burden onto the GO-IBR not the DP." 		
 "The latest draft of MOD-032 no longer requires reactive power information to be collected for DERs. While most smaller systems really only operate at unity, it is the belief of NCEMC having this information will allow planners to more accurately model Distributed Energy Resources, thereby improving grid reliability. Thus, NCEMC recommends that reactive power data collection for DERs be required by MOD-032." 		
Thank you for the opportunity to comment.		
Likes 0		
Dislikes 0		
Poenoneo		

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	
IBR-DERs data in the aggregate or unable operators in their areas: (1) an estimate of	graph 105 of FERC Order No. 901 which states that if distribution providers are unable to gather adequate to gather IBR-DERs data in the aggregate at all, provide instead to the Bulk-Power System planners and the modeling data and parameters of IBR-DERs in the aggregate, (2) an explanation of the limitations of the limitations of the data provided by IBR-DERs, and (4) the method used for estimation.
Likes 0	
Dislikes 0	
Response	
Kinte Whitehead - Exelon - 3	
Answer	
Document Name	
Comment	
Exelon concurs with the comments submitted by the EEI. Exelon suggests the drafting team consider allowing TP/PCs to establish a threshold for aggregate DER reporting. Certain types of DERs such as non-exporting, or DERs connected behind the meter as load offsetting DERs may not be of concern to the TP/PC should be exempt from DP/TO data collection and reporting requirements. Data collection and reporting requirements should focus on "front of meter" connected DERs who primarily export energy, or DERs participating in wholesale markets. Additionally, FERC Order 2222 will require some level of DER data reporting and modeling that may result in the proposed changes to MOD-032 becoming duplicative of, and in some cases in conflict with, obligations imposed by Order 2222.	
Likes 0	
Dislikes 0	
Response	
Bobbi Welch - Midcontinent ISO, Inc 2, 032 Draft 2	Group Name ISO/RTO Council Standards Review Committee (IRC SRC) 2022-02 Modifications to MOD-
Answer	

Comment

The SRC offers the following additional comments and recommendations:

Ensure consistency between Attachment 1, footnote 5 and steady-state item 9: The SRC is concerned that steady-state item 9 in Attachment 1 may not be consistent with footnote 5. Item 9 addresses instances in which DER is directly connected to a TO or DP, while footnote 5 addresses instances in which DER is not directly connected to a NERC-registered entity. Rather than addressing these topics in two separate locations, the SRC recommends that the drafting team ensure consistent language is used to describe each topic and consider addressing both topics in the same location, such as by moving relevant language from item 9 down to footnote 5.

The SRC recommends the SDT review and standardize its use of "DER" throughout the document. For example, MOD-032-2, Attachment 1, item 9 states:

Distributed Energy Resource (DER) data4 [DP, TO where DER is directly connected to the TO system and not through a DP (when DER is not associated with a registered DP)]5

However, this description of DER as "DER is directly connected to the TO system and not through a DP" appears to conflict with the DER definition (on page 2) which states: "Generators and energy storage technologies connected to the Distribution Provider's system..." To the extent a TO can also serve as a Distribution Provider and a DER is connected to the DP portion of a TO's system, there is no need to refer to that entity as a "TO" as the standard would apply to them as a DP.

Alternatively, if DERs can also be directly connected to a TO system, then the Distributed Energy Resource (DER) definition needs to be updated to reflect that as detailed below:

Generators and energy storage technologies connected to **either a Transmission Owner's system or a** Distribution Provider's system that are capable of providing Real Power in non-isolated parallel operation with the Bulk Electric System.

· Distribution Provider refers to the NERC glossary definition, not the NERC registered entity.

Stay within NERC's purview and require NERC-registered entities to provide DER information: To keep this project moving forward, the SRC recommends the SDT maintain its scope within NERC's regulatory purview. Requiring NERC registered entities to request information from non-registered entities as in Attachment 1, Footnote 5, moves the burden from entities that own and control the data to entities who do not own or control DER data. Entities are free to request information at any time without a standard. Using a mandatory standard to require an entity to request data is of little to no value. The benefit of a mandatory standard lies in placing a requirement on the appropriate entity to provide the data. Without a requirement on the providing entity, the data collected may be garbage and lead to poor modeling results; i.e. garbage in/garbage out.

As DERs proliferate, this increases the risk, administrative burden and cost on registered entities to expend time and energy on requesting and passing through DER data from unregistered entities that have no obligation to provide it ("pull" method). As non-registered entities have no obligation to provide the data or ensure its quality, this process may translate into a costly proposition that leads to poor modeling results. If the goal is to obtain quality data for modeling, NERC must ensure that it has the appropriate registration criteria and rules in place to require applicable NERC registered entities to provide it ("push" method) to modeling entities.

Footnote 5: Where DER is connected to an unregistered Distribution Provider, the next closest electrically connected registered entity (DP or TO) shall request DER data and pass through available information. An unregistered Distribution Provider is an unregistered entity meeting the NERC Glossary of Terms definition of Distribution Provider. This footnote is also applicable to item 10 under the "dynamics" column.

Review the adequacy of Distribution Provider registration criteria. As noted in the <u>Technical Rationale for Reliability Standard MOD-032-2</u> and in Attachment 1, Footnote 5, the SRC observes that in some cases, the entity that owns and controls the DER information may not be a NERC-registered DP. In fact, in July 2018 NERC relaxed its Distribution Provider registration criteria which allowed certain entities to deregister as Distribution Providers, [1] thereby removing what would otherwise have been in place to compel a broader scope of entities to provide DER data.

To that end, NERC has the obligation to ensure all Distribution Providers with the ability to impact the reliability of the BES are registered. Therefore, NERC should verify whether its existing DP registration criteria is adequate to ensure reliable modeling. As with the registration of IBRs (where the approach proposed under Docket RD22-24-000 is expected to result in approximately 98% of BPS-connected IBR nameplate capacity being subject to applicable NERC Reliability Standards), existing DP registration requirements should likewise be made adequate to acquire needed DER information.

Although NERC may not be able to address this now, NERC should nonetheless commit to a plan to perform this validation as it would be helpful to know whether the existing registration criteria for a "Distribution Provider" is sufficient to capture a predominance of DERs. If not, NERC could develop and implement a plan to register DPs that would close the gap. In this way, this effort will not delay the SDT from moving forward with proposed modifications to MOD-032-2 now, as acquiring some DER information now will provide substantial improvement in PC and TP studies.

Standardize the required level of aggregation: The SRC is concerned if the standard does not specify or standardize "the required level of aggregation" among PC/TPs. The reason for this is to ensure future compliance audits will have an established aggregation level and removes any ambiguity of "the required level of aggregation" between the PC/TP being audited and the auditor.

Footnote 4 "The joint PC/TP modeling data requirements and reporting procedures developed per R1 will specify data flow processes and **the required level of aggregation**. The PC or TP may need to coordinate with the DP or TO to determine appropriate equivalent distribution system impedance."

Ensure comprehensive reporting: The SRC is concerned with the proposed written language as it allows a gap as to knowing whether or not the registered DP or non-registered DP is providing all information and data – leaving an unknown compliance responsibility. This is especially true for non-jurisdictional entities, where the data may be unverifiable (un-auditable) and would lead to additional compliance concerns. One possible remedy is to aggregate small generators of the same type, along with an optional MW threshold for reporting.

[1] ERO Enterprise Registration Practice Guide: Distribution Provider "directly connected" Determinations Version 2: July 5, 2018	
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC Entity Monitoring	
Answer	
Document Name	

Comment

In Attachment 1 please capitalize "interconnection-wide" in the following sentence: "Data must be shareable on an **interconnection-wide** basis to support use in the **Interconnection-wide** cases."

Did the SDT intend to have the TO(s) gather Item 1 in the "short circuit" column of the table in Attachment 1 for DERs (Item 9 in "steady-state" column)?

Has the SDT collaborated with Project 2022-04 EMT Modeling SAR team on any possible changes to MOD-032 that could be promoted now versus waiting to re-open MOD-032?

Attachment 1 Footnote 5- Determining the "next closest electrically connected entity" is very broad and subject to interpretation especially if deep within multiple jurisdictions (TO and DP or multiples of each). What mechanism is in place for registered DPs and TOs to ensure that data is collected appropriately for a non-registered DP? "Appropriately" may mean avoiding a couple of scenarios---Accounted for twice or more (once by a TO AND once or more by one or more registered DPs) or not accounted for at all by either the DP or TO. Is the SDT leaving the determination of "next closest electrically connected entities" to the TP or PC?

Additionally, would recommend a footnote 5 (or 6) be added to Item 10 in the "dynamics" column to provide clarity versus referring to item 10 within the footnote itself. For Item 9 in "steady-state" column (i.e., DER data). WECC would suggest changing "Generator type (solar, battery, etc.)" to be more reflective of the proposed definition of DER which starts out as "Generators and energy storage technologies...". Consider removing "Generator" from 9c and simply say "Type (solar, battery, etc.)" The SDT should consider utilizing or correcting Glossary of Term usage within Table 1 to reflect "Real Power" and "Reactive Power" for all parts of the table to provide clarity. Further comments for Question 1: The addition of the phrase "Distribution Provider refers to the NERC glossary definition, not the NERC registered entity" may cause confusion as the ROP definition of the registered entity (DP) is the same as the Glossary of Terms. SDT should further consider if a

different term should be utilized to avoid some confusion. WECC appreciates the idea of trying to illustrate what the entity functions may be regardless of the determination for registration (and the ensuing obligation to NERC Reliability Standards construct if registered.)

ROP definition in Appendix 5b: "Provides and operates the "wires" between the transmission system and the end-use customer. For those end-use customers who are served at transmission voltages, the Transmission Owner also serves as the Distribution Provider. Thus, the Distribution Provider is not defined by a specific voltage, but rather as performing the distribution function at any voltage."

ROP definition in Appendix 2:" "Distribution Provider" means the entity that provides and operates the "wires" between the transmission system and the end-use customer. For those end-use customers who are served at transmission voltages, the Transmission Owner also serves as the Distribution Provider. Thus, the Distribution Provider is not defined by a specific voltage, but rather as performing the distribution function at any voltage.**

Glossary of Terms Definition: "Provides and operates the "wires" between the transmission system and the end-use customer. For those end-use customers who are served at transmission voltages, the Transmission Owner also serves as the Distribution Provider. Thus, the Distribution Provider is at defined by a appeific voltage, but rather as performing the distribution function at any voltage."

Thot defined by a specific voltage, but father	as performing the distribution function at any voltage.
Likes 0	
Dislikes 0	
Response	
Carly Miller - Carly Miller On Behalf of: M	licah Runner, Black Hills Corporation, 5, 6, 1, 3; - Carly Miller
Answer	
Document Name	
Comment	
	ntities that Footnote 5 should be deleted. The "next closest electrically connected registered entity" DP, TO, er, should not be held responsible for providing DER data outside of their control or ability to collect.
Likes 0	
Dislikes 0	
Response	

Claudine Bates - Black Hills Corporation - 6

Answer	
Document Name	
Comment	
	ntities that Footnote 5 should be deleted. The "next closest electrically connected registered entity" DP, TO, er, should not be held responsible for providing DER data outside of their control or ability to collect.
Likes 0	
Dislikes 0	
Response	
Rachel Schuldt - Rachel Schuldt On Beh	alf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt
Answer	
Document Name	
Comment	
	ntities that Footnote 5 should be deleted. The "next closest electrically connected registered entity" DP, TO, er, should not be held responsible for providing DER data outside of their control or ability to collect.
Likes 0	
Dislikes 0	
Response	
Daniel Gacek - Exelon - 1	
Answer	
Document Name	
Comment	
Exelon concurs with the comments submitte	ed by the EEI.
exporting, or DERs connected behind the m	allowing TP/PCs to establish a threshold for aggregate DER reporting. Certain types of DERs such as non- leter as load offsetting DERs may not be of concern to the TP/PC should be exempt from DP/TO data collection and reporting requirements should focus on "front of meter" connected DERs who primarily export markets.
	some level of DER data reporting and modeling that may result in the proposed changes to MOD-032 in conflict with, obligations imposed by Order 2222.
Likes 0	

Dislikes 0	
Response	
Sheila Suurmeier - Black Hills Corporation	on - 5
Answer	
Document Name	
Comment	
	ntities that Footnote 5 should be deleted. The "next closest electrically connected registered entity" DP, TO, er, should not be held responsible for providing DER data outside of their control or ability to collect.
Likes 0	
Dislikes 0	
Response	
David Jendras Sr - Ameren - Ameren Ser	vices - 3
Answer	
Document Name	
Comment	
Ameren supports EEI's comments on this pr	roject
Likes 0	
Dislikes 0	
Response	
Kenya Streeter - Edison International - So	outhern California Edison Company - 1,3,5,6
Answer	
Document Name	
Comment	
See comments submitted by the Edison Ele	ectric Institute
Likes 0	
Dislikes 0	
Response	

Ben Hammer - Western Area Power Administration - 1	
Answer	
Document Name	

Comment

Transmission Owners who are not Distribution Providers likely have no knowledge or capability to provide data for planned demand or DER constituents served from the transmission system. Transmission Owner visibility for load demand is typically limited to historical telemetered MW and MVAR data. This finding, especially with regards to DERs, has already been well-documented. A key recommendation in the NERC Reliability and Security Technical Committee (RSTC) subcommittee approved the "Model Verification of Aggregate DER Models used in Planning Studies - Reliability Guideline" developed by the System Planning Impacts from Distributed Energy Resources Working Group (SPIDERWG) was:

"TPs, PCs, TOs, and other applicable entities that may need DER information should coordinate with DPs for facilities connected to distribution systems to determine the necessary measurement information that would be of use for DER modeling and model verification and jointly develop requirements or practices that will ensure this data is available. As the TPs, PCs, and TOs are dependent on the DP to have the data made available, this will likely require actions from state regulatory bodies and DPs to establish requirements to gather this information" (page 7 of 61).

The SDT should consider that Transmission Owners should not be held accountable for demand and DER data that they have no cognizance of. Additionally, the SDT should remember that most DER are smaller than the BES resource threshold or reside on a distribution system. The threshold for an entity to be registered as a Distribution Provider is 75 MW of load. This implies that the majority of DERs are and will be connected to systems outside the scope and visibility of Transmission Owners, as well as existing Distribution Providers. To emphasize this reality: as of 15 May 2023, there were 314 Distribution Providers registered with NERC (excluding UFLS-only DPs). Of those DPs, 96 were not otherwise registered as either a PC, TP, or TO. While it may be misunderstood that only 96 DPs may become newly applicable and participatory in model data collection given the draft changes to MOD-032-2, this ignores that the latest EIA 861 data (collected in 2021; published in 2022) reflects about 1,190 distribution utilities reflecting almost 197,000 distribution circuits in the continental US. In other words, it may be reasonable to conclude that 74% of the distribution utilities in the US do not meet the NERC registration threshold. Furthermore, PCs, TPs, and TOs have no regulatory relationship with these unregistered entities and cannot be held responsible for DER data for which that are not aware.

In June 2022, NERC published its "Inverter-Based Resource Strategy" that recognized efforts necessary to analyze the breakdown of resource size, location, type, and applicability with the BES definition to make a determination of whether the current BES threshold should be updated to reflect the changing resource mix" (page 9 of 10). Subsequently, the NERC Member Representatives Committee (MRC) and Board of Trustees (BOT) technical session on inverter-based resources in February 2023 emphasized the need for a focus on functional registration noting: "industry is increasingly challenged with addressing reliability issues for unregistered inverter-based resources, and those resources are reaching critical mass in some parts of the country. The lack of requirements currently imposed on those resources creates local and regional reliability risks to the BPS in aggregate. This issue compounds in many areas with the growing presence of distributed energy resources (DERs) connected to the distribution system." In response to the FERC directive "Registration of Inverter-based Resources", NERC filed a proposal to modify its Rules of Procedure to "include a new function comprised of owners of IBRs interconnected to the BPS." The Generator Owner – Inverter-Based Resource (GO-IBR) registration would include "owners of IBRs which have aggregate nameplate capacity of less than or equal to 75 MVA and greater than or equal to 20 MVA interconnected at a voltage less than 100 kV."

Likes 0	
Dislikes 0	

Response

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC

Answer		
Document Name		
Comment		
NPCC RSC supports the project.		
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 suggests that NERC consider the work being performed under Project 2023-05 to revise FAC-001 – Facility Interconnection Requirements to include Distribution Provider which may help to alleviate the drafting team's concerns regarding the ability of either TO or DP needing to obtain data from unregistered entities that own DERs.		
Likes 0		
Dislikes 0		
Response		
Daniela Atanasovski - APS - Arizona Pub	olic Service Co 1	
Answer		
Document Name		
Comment		
Attachment 1 Data Reporting table (Steady State Column items 2, and 9, and Dynamics Column items 5, and 10) has added language indicating that the Transmission Owner (TO) is the responsible entity for submitting modeling data when a demand is not associated with a registered Distribution Provider. AZPS requests clarification regarding the type of entity that would have load, but not be a registered distribution provider. AZPS is concerned that the Transmission Owner may not have the ability to produce or acquire certain load information from an unregistered entity unless there is some other type of contractual relationship in place.		
Likes 0		
Dislikes 0		
Response		

Alison MacKellar - Constellation - 5	
Answer	
Document Name	
Comment	
Constellation has no additional comments Alison Mackellar on behalf of Constellation	Segments 5 and 6
Autori Mackellal on Berlali of Constellation	
Likes 0	
Dislikes 0	
Response	
Alan Kloster - Alan Kloster On Behalf of: Tiffany Lake, Evergy, 3, 5, 1, 6; - Alan Klo	Jeremy Harris, Evergy, 3, 5, 1, 6; Kevin Frick, Evergy, 3, 5, 1, 6; Marcus Moor, Evergy, 3, 5, 1, 6; oster
Answer	
Document Name	
Comment	
Evergy supports and incorporates by refere	nce the comments of the Edison Electric Institute (EEI) and MRO NSRF for question #6.
Likes 0	
Dislikes 0	
Response	
Rachel Coyne - Texas Reliability Entity, I	nc 10
Answer	
Document Name	
Comment	
Power capability (minimum and maximum)	ends the SDT consider not removing the minimum and maximum for Real Power capability and Reactive for DER data requirements. If the minimum and maximum Real Power and Reactive Power data is to be included in the system model which will yield more accurate models that are represented in Real-Time
Likes 0	
Dislikes 0	
Response	

LaTroy Brumfield - American Transmissi	on Company, LLC - 1	
Answer		
Document Name		
Comment		
Very little has changed from Draft 1 to Draft 2 of the proposed modifications to MOD-032-2. ATC supports the comments from the MRO-NSRF. In the Technical Rationale, the Standard Drafting Team acknowledges that there may be challenges in collecting data for DER connected to unregistered entities and that the obligations of this standard may place an unreasonable compliance risk on registered entities. However, despite the acknowledgement of this unreasonable risk, the Standard Drafting Team has put forth in draft 2 similar language, containing the same unreasonable risk for industry consideration. A separate effort should be initiated to explore making DER entities above a specified threshold a NERC registered entity to ensure data will be correctly shared.		
The SDT may also consider waiting until pos	ssible modifications have been suggested to MOD-032 in response to FERC Order 901 and IBR modeling.	
Likes 0		
Dislikes 0		
Response		
Israel Perez - Israel Perez On Behalf of: N Johnson, Salt River Project, 3, 1, 6, 5; Tir	Mathew Weber, Salt River Project, 3, 1, 6, 5; Sarah Blankenship, Salt River Project, 3, 1, 6, 5; Thomas nothy Singh, Salt River Project, 3, 1, 6, 5; - Israel Perez	
Answer		
Document Name		
Comment		
While these modifications are necessary, approving them prior to the SDT's documented concerns over the changes to the DP registration creates a disconnect that has the potential for unintended future consequences. SRP recommend the SDT crate a SAR for adjusting the definition of DP to include the DER resources prior to moving forward with this effort.		
Likes 0		
Dislikes 0		
Response		
Shannon Mickens - Shannon Mickens Or SPP RTO	Behalf of: Joshua Phillips, Southwest Power Pool, Inc. (RTO), 2; - Shannon Mickens, Group Name	
Answer		
Document Name		
Comment		

SPP recommends this drafting team coordinates with the Project 2023-08 drafting team to ensure the appropriate DER data is identified as well as listed to meet the needs of the two standards from an efficient and reliability prospective. Furthermore, we recommend that the drafting team consider creating an independent registration for the TO with direct connection to DERs (R-DERs). From our perspective, the proposed Attachment 1 (footnotes) does not clearly define the role for this particular Transmission Owner (TO). Moreover, the independent document can be used to provide clarity on the expectation of the role for the TO with direct connection to DERs (R-DERs). In support of the proposed solution, we recommend that the drafting team review the efforts made in the NERC Rules of Procedures (RoP) in reference to the GO (IBR) and GOP (IBR) pertaining to their definition and registration. Additionally, we recommend that the drafting team takes into consideration the impact of creating a separate project to address the proposed definition in an independent process. We have the concern that the creation of an independent project for the definition will only delay the efforts of addressing the needs for DER data collection. From our perspective, the definition effort needs to be finalized before pursuing other activities associate with data collection. Finally, SPP recognizes that DPs and TOs have expressed concern with their ability to obtain granular DER data and because of the proposed data collection modifications to MOD-032-2 may not be accepted by industry. To help reach consensus, SPP this. that the drafting team consider an alternative mechanism that would allow the DPs and TOs to forecast DER data based on suggests knowledge of DER penetration on their systems, especially when the data is not directly available through a NERC standard. their Likes 0 Dislikes 0 Response Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF **Answer Document Name** Comment See comments submitted by the Edison Electric Institute for Duke Energy's official response. Likes 0 Dislikes 0 Response Hillary Creurer - Allete - Minnesota Power, Inc. - 1 Answer **Document Name** Comment

Minnesota Power supports MRO's NERC S	tandards Review Forum's (NSRF) comments.
Likes 0	
Dislikes 0	
Response	
Andy Fuhrman - Andy Fuhrman On Beha	alf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman
Answer	
Document Name	
Comment	
MPC supports comments submitted by ACE	ES and the MRO NERC Standards Review Forum.
Likes 0	
Dislikes 0	
Response	
Selene Willis - Edison International - Sou	ithern California Edison Company - 5
Answer	
Document Name	
Comment	
"See comments submitted by the Edison Ele	ectric Institute"
Likes 0	
Dislikes 0	
Response	
Stephen Whaite - Stephen Whaite On Bel Body Member and Proxies	half of: Lindsey Mannion, ReliabilityFirst , 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot
Answer	
Document Name	
Comment	

RF respectfully abstains from this ballot ever project scope in light of the directives in FEI	ent and recommends NERC staff, the Standards Committee, and the Standards Drafting Team revisit the RC Order 901, issued October 19th, 2023.
Likes 0	
Dislikes 0	
Response	
Ruchi Shah - AES - AES Corporation - 5	
Answer	
Document Name	
Comment	
However, there is still concern about the ab allows the TO to specify its interconnection	quirements for DERs will help TPs and PCs to better understand the root cause of system instability. ility of the TO and DP to obtain the data from unregistered entities that own the DERs. Currently, FAC-001 requirements which may help TO to obtain the necessary data. However, there is no similar requirement for standard Drafting Team to look into this as well.
Likes 0	
Dislikes 0	
Response	
Joshua London - Eversource Energy - 1,	Group Name Eversource
Answer	
Document Name	
Comment	
provider should not be held responsible for	or the requirements be modified to make clear that the next closest DP or TO to an unregistered distribution providing DER data in case the unregistered entity does not supply this information, but only responsible to ution provider does not supply this information, the DP or TO should remain compliant as long as they
Likes 0	
Dislikes 0	
Response	

Ryan Strom - Ryan Strom On Behalf of: Carl Spaetzel, Buckeye Power, Inc., 4, 3, 5; Jason Procuniar, Buckeye Power, Inc., 4, 3, 5; Kevin Zemanek, Buckeye Power, Inc., 4, 3, 5; - Ryan Strom, Group Name Buckeye Power Group

Answer	
Document Name	
Comment	
Buckeye Power, Inc. supports the comment	ts of ACES:
We have a great deal of apprehension as it relates to proposed language in Footnote 5 of Attachment 1. Footnote 5 states (emphasis added): "Where DER is connected to an unregistered Distribution Provider, the next closest electrically connected registered entity (DP or TO) shall request DER data and pass through available information. An unregistered Distribution Provider is an unregistered entity meeting the NERC Glossary of Terms definition of Distribution Provider. This footnote is also applicable to item 10 under the "dynamics" column." By what method should it be determined which registered entity is the "next closest electrically connected". Consider the case wherein a substation owned by an unregistered DP has a feeder from 2 different registered entities. Who is to make the determination as to which registered entity is the "next closest electrically connected" and how? In order to make this determination, a certain amount of knowledge about the other entity's infrastructure is required. Of even greater concern is the continued inclusion of data from unregistered entities despite the open acknowledgment by the SDT of the challenges with collecting said data (see Technical Rationale, paragraph 2). We recommend that the SDT postpone further development of this Project until the GO-IBR and GOP-IBR registration criteria have been approved and can be included in the next draft of MOD-032-2.	
Likes 0	
Dislikes 0	
Response	
Dwanique Spiller - Berkshire Hathaway -	NV Energy - 5
Answer	
Document Name	
Comment	
Entities to which the proposed standard(s) s (DP). This section of the SAR is designed to proposed language in ATTACHMENT 1, aff	tional Entity to which the proposed standard(s) should apply in the SAR. The SAR states that the Functional should apply are the Transmission Planner (TP), the Planning Coordinator (PC) and the Distribution Provider 5, "assist the NERC Standards Committee in appointing a drafting team with the appropriate members." The fects and changes the obligations of the Transmission Owner (TO). Changes to the obligations of the ed in the SAR and SDT members selected may not provide adequate representation of TOs.
unregistered entities and that the obligation acknowledgement of this unreasonable risk risk for industry consideration. NV ENERGY	rafting Team acknowledges that there may be challenges in collecting data for DER connected to s of this standard may place an unreasonable compliance risk on registered entities. However, despite the s, the Standard Drafting Team has put forth in draft 2 similar language, containing the same unreasonable recommends that the Standard Drafting Team consider utilizing the procedures allowed for by NERC Rules until such time that issues surrounding data collection from entities who have no obligation to comply are
NV Energy has concerns with Footnote 5 of	f Attachment 1:

DER data and pass through available inform	ed Distribution Provider, the next closest electrically connected registered entity (DP or TO) shall request nation. An unregistered Distribution Provider is an unregistered entity meeting the NERC Glossary of Terms note is also applicable to item 10 under the "dynamics" column."
Likes 0	
Dislikes 0	
Response	
Kimberly Turco - Constellation - 6	
Answer	
Document Name	
Comment	
Constellation has no additional comments	
Kimberly Turco on behalf of Constellation S	egments 5 and 6
Likes 0	
Dislikes 0	
Response	
Adrian Raducea - DTE Energy - Detroit E	dison Company - 5, Group Name DTE Energy - DTE Electric
Answer	
Document Name	
Comment	
	generic models for legacy systems. Additionally, with some state regulators, such as the MPSC, it may be ers that are not within the MPSC procedures and rules.
Likes 0	
Dislikes 0	
Response	
Duane Franke - Manitoba Hydro - 1,3,5,6	- MRO
Answer	
Document Name	

Comment		
be incorporated in the IOA.	ligated to provide any data for models. It may not be a problem for new U-DERs since data requirement can steady-state modelling requirement under dynamic modelling data requirements.	
(d. DER capabilities related to ride-through, modeling purposes.)	voltage control and/or frequency control or information that can be used to infer those capabilities for	
Likes 0		
Dislikes 0		
Response		
Anna Martinson - MRO - 1,2,3,4,5,6 - MRO	D, Group Name MRO Group	
Answer		

Comment

Document Name

Transmission Owner is not listed as a Functional Entity to which the proposed standard(s) should apply in the SAR. The SAR states that the Functional Entities to which the proposed standard(s) should apply are the Transmission Planner (TP), the Planning Coordinator (PC) and the Distribution Provider (DP). This section of the SAR is designed to, "assist the NERC Standards Committee in appointing a drafting team with the appropriate members." The proposed language in ATTACHMENT 1, affects and changes the obligations of the Transmission Owner (TO). Changes to the obligations of the Transmission Owner (TO) were not approved in the SAR and SDT members selected may not provide adequate representation of TOs.

In the Technical Rationale, the Standard Drafting Team acknowledges that there may be challenges in collecting data for DER connected to unregistered entities and that the obligations of this standard may place an unreasonable compliance risk on registered entities. However, despite the acknowledgement of this unreasonable risk, the Standard Drafting Team has put forth in draft 2 similar language, containing the same unreasonable risk for industry consideration. MRO NSRF recommends that the Standard Drafting Team consider utilizing the procedures allowed for by NERC Rules of Procedure to halt activity on this project until such time that issues surrounding data collection from entities who have no obligation to comply are addressed.

The NSRF has concerns with Footnote 5 of Attachment 1:

"Where DER is connected to an unregistered Distribution Provider, the **next closest electrically connected** registered entity (DP or TO) shall request DER data and pass through available information. An unregistered Distribution Provider is an unregistered entity meeting the NERC Glossary of Terms definition of Distribution Provider. This footnote is also applicable to item 10 under the "dynamics" column."

By what method should it be determined which registered entity is the "next closest electrically connected?" Consider the case wherein a substation owned by an unregistered DP has a feeder from 2 different registered entities. Who is to make the determination as to which registered entity is the "next closest electrically connected" and how? In order to make this determination, a certain amount of knowledge about the other entity's infrastructure is required.

	size the significant challenges in collecting the data in question from non-NERC-registered entities, edged (see Technical Rationale, paragraph 2).We recommend that the SDT postpone further development of registration criteria have been approved.
Likes 1	Lincoln Electric System, 5, Millard Brittany
Dislikes 0	
Response	
Donna Wood - Tri-State G and T Associa	ition, Inc 1
Answer	
Document Name	
Comment	
N/A	
Likes 0	
Dislikes 0	
Response	
Christine Kane - WEC Energy Group, Inc	c 3, Group Name WEC Energy Group
Answer	
Document Name	
Comment	
WEC Energy Group supports the additional	comments of both EEI and the MRO NSRF.
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	
Document Name	

Comment		
requirements could be modified to allow the gather DER data at all, to provide instead to DERs in the aggregate using estimated da	nat mimics FERC Order 901, Paragraph 141, for Verification of IBR Plant Dynamic Model Performance. The Transmission Owner and/or Distribution Providers, if unable to gather accurate DER data, or unable to the Bulk-Power System planners and operators in their areas, dynamic models of individual DERs and ta. This would give the Planning Coordinators the latitude to use their best judgement and experience in eir areas if they cannot get the data from the DER owners or "unregistered Distribution Providers".	
Likes 0		
Dislikes 0		
Response		
Joseph OBrien - NiSource - Northern Ind	iana Public Service Co 6	
Answer		
Document Name		
Comment		
No TPL questions?		
Likes 0		
Dislikes 0		
Response		
Anne Kronshage - Public Utility District	No. 1 of Chelan County - 6, Group Name Public Utility District No. 1 of Chelan County - Voting Group	
Answer		
Document Name		
Comment		
In Attachment 1, the steady state section 2 state section 9 and dynamics section 10 for	removed the TO due to the DP NERC glossary definition. I think the TO should also be removed from steady the same reason.	
Likes 0		
Dislikes 0		
Response		
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter		
Answer		

Document Name		
Comment		
FirstEnergy believes Footnote 5 should be deleted. The next closest DP or TO to an unregistered distribution provider should not be held responsible for providing DER data outside of their control or ability to collect. Further, FirstEnergy supports EEI's comments which state: EEI notes that this project has been listed as a low priority project. While we understand this may have some immediate impacts on the work being conducted by this SDT, we suggest that a two phased approach for the revision of MOD-032 might address the immediate concerns surrounding efforts to align registration under Project 2017-02. Phase 1: Consider completing the work from project 2017-02 Standards Alignment with Registration: Replace Load-Serving Entity (LSE) with Distribution Provider (DP), remove the Planning Authority (PA) functional entity name and keep the Planning Coordinator (PC) functional entity name, and make the associated LSE / DP functional changes to the standard requirements. Phase 2: Please consider addressing additional DER data requirements, after further discussion regarding how GO-IBR and GOP-IBR standards are going to be addressed and what is needed from Distribution Providers regarding unregistered IBRs.		
Likes 0		
Dislikes 0		
Response		