Comment Report

Project Name: 2021-04 Modifications to PRC-002 | Draft 2

Comment Period Start Date: 9/26/2022 Comment Period End Date: 11/10/2022

Associated Ballots: 2021-04 Modifications to PRC-002 | Draft 1 Implementation Plan AB 2 OT

2021-04 Modifications to PRC-002 | Draft 1 PRC-002-4 | Non-binding Poll AB 2 NB

2021-04 Modifications to PRC-002 | Draft 1 PRC-002-4 AB 2 ST

There were 46 sets of responses, including comments from approximately 89 different people from approximately 63 companies representing 8 of the Industry Segments as shown in the table on the following pages.

Questions

- 1. Do you agree with the revisions to Requirement 1?
- 2. Do you agree with including the implementation plan information in proposed Requirement R13?
- 3. 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		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
ACES Power Marketing	Jodirah Green	lodirah Green 1,3,4,5,6 MRO,RF,SERC,Texas RE,WECC Colla	ACES Collaborators	Scott Brame	North Carolina Electric Membership Corporation	3,4,5	SERC	
					Shari Heino	Brazos Electric Power Cooperative, Inc.	5	Texas RE
					David Hartman	Arizona Electric Power Cooperative, Inc.	1	WECC
					Bob Soloman	Hoosier Energy Electric Cooperative	1	RF
					Kevin Lyons	Central Iowa Power Cooperative	1	MRO
DTE Energy -	Karie Barczak	3,4,5	RF	DTE Energy	patricia ireland	DTE Energy	4	RF
Detroit Edison Company					Adrian Raducea	DTE Energy - Detroit Edison Company	5	RF
					Karie Barczak	DTE Energy - Detroit Edison Company	3	RF
MRO	Kendra Buesgens		MRO	MRO NSRF	Bobbi Welch	Midcontinent ISO, Inc.	2	MRO
					Christopher Bills	City of Independence Power & Light	3,5	MRO
			Fred Meyer	Algonquin Power Co.	3	MRO		

			Jamie Monette	Allete - Minnesota Power, Inc.	1	MRO		
		Larry Heckert Marc Gomez	Alliant Energy Corporation Services, Inc.	4	MRO			
			Marc Gomez	Southwestern Power Administration	1	MRO		
					Matthew Harward	Southwest Power Pool, Inc.	2	MRO
					LaTroy Brumfield	American Transmission Company, LLC	1	MRO
				Bryan Sherrow	Kansas City Board Of Public Utilities	1	MRO	
					Terry Harbour	MidAmerican Energy	1,3	MRO
				Jamison Cawley	Nebraska Public Power	1,3,5	MRO	
				Seth S	Seth Shoemaker	Muscatine Power & Water	1,3,5,6	MRO
				Michael Brytowski	Great River Energy	1,3,5,6	MRO	
					David Heins	Omaha Public Power District	1,3,5,6	MRO
			C	George Brown	Acciona Energy North America	5	MRO	
					Jaimin Patel	Saskatchewan Power Corporation	1	MRO
					Kimberly Bentley	Western Area Power Administration	1,6	MRO
FirstEnergy - FirstEnergy Corporation	Mark Garza	4		FE Voter	Julie Severino	FirstEnergy - FirstEnergy Corporation	1	RF
23.50.440				Aaron FirstEnergy - Ghodooshim Corporation		3	RF	

					Robert Loy	FirstEnergy - FirstEnergy Solutions	5	RF
					Mark Garza	FirstEnergy- FirstEnergy	1,3,4,5,6	RF
					Stacey Sheehan	FirstEnergy - FirstEnergy Corporation	6	RF
	Michael Johnson			Segments	Marco Rios	Pacific Gas and Electric Company	1	WECC
					Sandra Ellis	Pacific Gas and Electric Company	3	WECC
			James Mearns	Pacific Gas and Electric Company	5	WECC		
Southwest Power Pool, Inc. (RTO)	Power Pool, Mickens	MRO,SPP RE,WECC	SPP RTO	Shannon Mickens	Southwest Power Pool Inc.	2	MRO	
					Matt Harward	Southwest Power Pool Inc	2	MRO
			Brett Springfield	Southwest Power Pool Inc.	2	MRO		
Tim Kelley	Tim Kelley	WECC	WECC	SMUD / BANC	Nicole Looney	Sacramento Municipal Utility District	3	WECC
				Municip	Sacramento Municipal Utility District	6	WECC	
					Wei Shao	Sacramento Municipal Utility District	1	WECC
					Foung Mua	Sacramento Municipal Utility District	4	WECC
			Nice	Nicole Goi	Sacramento Municipal Utility District	5	WECC	
					Kevin Smith	Balancing Authority of Northern California	1	WECC

. Do you agree with the revisions to Requirement 1?					
ennis Chastain - Tennessee Valley Authority - 1,3,5,6 - SERC					
Answer	No				
Document Name					
Comment					
	consider combining Parts 1.1 and 1.3 (retiring Part 1.3). The SDT should consider whether "fault" should be ned term in the NERC Glossary of Terms Used in Reliability Standards and is capitalized in Attachment 1. A				
	ce of events recording (SER) and Fault recording (FR) data is required by using the methodology in PRC-ormance, re-evaluate all BES buses at least once every five calendar years."				
f Part 1.3 is retired / combined into Part 1.1 evaluation per Requirement R1, Part 1.1 , if	, then the proposed edit to Attachment 1, Step 7 should also be modified. It could be revised to "During rethe three phase short circuit".				
hose BES buses" if a BES Element identifie	A1, Part 1.2, as proposed in Draft 2 doesn't seem to require the Transmission Owner to inform "other owners of BES Elements directly connected to nose BES buses" if a BES Element identified in a prior performance of Part 1.1 is not identified as requiring SER or FR data as part of a revaluation. This could potentially result in a misinformed PRC-002 compliance obligation to the other owners of those BES Elements. A possible sewording for Part 1.2:				
determined not to be required upon a re-	nts directly connected to those BES buses, that SER or FR data is required for those BES Elements (or evaluation), only if the Transmission Owner who identified the BES buses in Part 1.1 does not have SER or 90 calendar days of completion of Part 1.1."				
For footnote 1 (page 3 of the Draft 2 "clean" defined term in the NERC Glossary of Term	version), we recommend that "elements" be capitalized since it is capitalized within R1 (part 1.2) and is a subset in Reliability Standards.				
	that identifies the initial effective date of PRC-002-2, R1 (7/1/2016). For Transmission Owners that have uously since before 7/1/2016, this is the date that their initial performance of R1 was required.				
ikes 0					
Dislikes 0					
Response					
John Daho - MEAG Power - 1 - SERC					
Answer	Yes				
Document Name					
comment					
WEAG B B41 46					

MEAG Power agrees with revising R1 but further clarification is needed for 1.2 as shown in the technical Rationale. Below is suggested language:-1.2.1 "Notify the other owners of BES Elements directly connected to those BES buses, that SER or FR data is required for those BES Elements"

1.2.2 "SER or FR data is only required if the Elements it doesn't own.	e Transmission Owner who identified the BES buses in Part 1.1 dos not have SER/or FR data for the BES
Likes 0	
Dislikes 0	
Response	
Andy Thomas - Duke Energy - 1,3,5,6 - S	ERC,RF
Answer	Yes
Document Name	
Comment	
No comments.	
Likes 0	
Dislikes 0	
Response	
Michael Johnson - Michael Johnson On Company, 3, 1, 5; Sandra Ellis, Pacific G	Behalf of: Frank Lee, Pacific Gas and Electric Company, 3, 1, 5; Marco Rios, Pacific Gas and Electric as and Electric Company, 3, 1, 5; - Michael Johnson, Group Name PG&E All Segments
Answer	Yes
Document Name	
Comment	
PG&E agrees with the revisions.	
Likes 0	
Dislikes 0	
Response	
Kimberly Turco - Constellation - 6	
Answer	Yes
Document Name	
Comment	

Constellation has no comments.				
Kimberly Turco, on behalf of Constellation S	Segements 5 and 6			
Likes 0				
Dislikes 0				
Response				
Mark Garza - FirstEnergy - FirstEnergy C	orporation - 4, Group Name FE Voter			
Answer	Yes			
Document Name				
Comment				
	R1.3. Per R1.3, would notification be required every five years if the other owner was notified previously. If the data is currently being monitored, would notification still be required?			
Likes 0				
Dislikes 0				
Response				
Alison MacKellar - Constellation - 5				
Answer	Yes			
Document Name				
Comment				
Constellation has no additional comments.				
Likes 0				
Dislikes 0				
Response				
Andy Fuhrman - Andy Fuhrman On Beha	ılf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman			
Answer	Yes			

Document Name	
Comment	
Minnkota supports comments submitted by	the MRO NERC Standards Review Forum.
Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Pul	olic Service Co 1
Answer	Yes
Document Name	
Comment	
None	
Likes 0	
Dislikes 0	
Response	
Response	
response	
Leslie Hamby - Southern Indiana Gas an	d Electric Co 1,3,5,6 - RF
•	d Electric Co 1,3,5,6 - RF Yes
Leslie Hamby - Southern Indiana Gas an	
Leslie Hamby - Southern Indiana Gas an	
Leslie Hamby - Southern Indiana Gas an Answer Document Name Comment	
Leslie Hamby - Southern Indiana Gas an Answer Document Name Comment Southern Indiana Gas & Electric (SIGE) app While the changes to R1 do not directly imp	Yes
Leslie Hamby - Southern Indiana Gas an Answer Document Name Comment Southern Indiana Gas & Electric (SIGE) app While the changes to R1 do not directly imp	Yes preciates the opportunity to respond and thanks the drafting team for their efforts. pact SIGE's procedures, SIGE would like to highlight the potential that the revisions may be burdensome on
Leslie Hamby - Southern Indiana Gas an Answer Document Name Comment Southern Indiana Gas & Electric (SIGE) application of the Comment of t	Yes preciates the opportunity to respond and thanks the drafting team for their efforts. pact SIGE's procedures, SIGE would like to highlight the potential that the revisions may be burdensome on
Leslie Hamby - Southern Indiana Gas an Answer Document Name Comment Southern Indiana Gas & Electric (SIGE) apply While the changes to R1 do not directly implindustrial customers and municipalities that Likes 0	Yes preciates the opportunity to respond and thanks the drafting team for their efforts. pact SIGE's procedures, SIGE would like to highlight the potential that the revisions may be burdensome on
Leslie Hamby - Southern Indiana Gas an Answer Document Name Comment Southern Indiana Gas & Electric (SIGE) apply While the changes to R1 do not directly implied industrial customers and municipalities that Likes 0 Dislikes 0	Yes preciates the opportunity to respond and thanks the drafting team for their efforts. pact SIGE's procedures, SIGE would like to highlight the potential that the revisions may be burdensome on
Leslie Hamby - Southern Indiana Gas an Answer Document Name Comment Southern Indiana Gas & Electric (SIGE) apply While the changes to R1 do not directly implied industrial customers and municipalities that Likes 0 Dislikes 0	Preciates the opportunity to respond and thanks the drafting team for their efforts. Deact SIGE's procedures, SIGE would like to highlight the potential that the revisions may be burdensome on may not readily have access to SER or FR data at the time of notification.

Document Name	
Comment	
Texas RE recommends Footnote 1 be revisiones capitalize the term.	ed to capitalize "elements" as it is a defined term in the NERC Glossary. The Technical Rationale document
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA	A - Not Applicable - NA - Not Applicable
Answer	Yes
Document Name	
Comment	
EEI agrees with the changes made to Requ "other owners" of BES Elements where SEF	irement 1 and the associated subparts and is sufficient to clarify when SER and FR notifications are made to R and FR data is required.
Likes 0	
Dislikes 0	
Response	
Kendra Buesgens - MRO - 1,2,3,4,5,6,7 -	MRO, Group Name MRO NSRF
Answer	Yes
Document Name	
Comment	
The MRO NSRF has no comments.	
Likes 0	
Dislikes 0	
Response	
Allie Gavin - Allie Gavin On Behalf of: Mi	chael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin
Answer	Yes
Document Name	

Comment	
Provides notification clarification and lesser	ns duplication in FR/SER data collection implementation.
Likes 0	
Dislikes 0	
Response	
Jesus Sammy Alcaraz - Imperial Irrigation	on District - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Harishkumar Subramani Vijay Kumar - Ir	ndependent Electricity System Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Nazra Gladu - Manitoba Hydro - 1	
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			
Thomas Foltz - AEP - 5			
Answer	Yes		
Document Name			
Comment			
Likes 0			
Dislikes 0			
Response			
Mike Magruder - Avista - Avista Corpora	tion - 1 - WECC		
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	
Pamela Hunter - Southern Company - So	outhern Company Services, Inc 1,3,5,6 - SERC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Daniel Gacek - Exelon - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Utility District, 3, 6, 4, 1, 5; Kevin Smith,	arles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Balancing Authority of Northern California, 1; Nicole Goi, Sacramento Municipal Utility District, 3, 6, cipal 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		
Claudine Bates - Black Hills Corporation	- 6	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kinte Whitehead - Exelon - 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Donna Wood - Tri-State G and T Associa		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kenisha Webber - Entergy - NA - Not Applicable - SERC		
Answer	Yes	

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Alice Wright - Arkansas Electric Coopera	ative Corporation - 4 - MRO,SERC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
David Jendras Sr - Ameren - Ameren Sei	rvices - 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Karie Barczak - DTE Energy - Detroit Edison Company - 3,4,5 - RF, Group Name DTE Energy	
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	
Carl Pineault - Hydro-Qu?bec Production	n - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jodirah Green - ACES Power Marketing	- 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Israel Perez - Israel Perez On Behalf of: Blankenship, Salt River Project, 3, 5, 1, 6	Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Mathew Weber, Salt River Project, 3, 5, 1, 6; Sarah 5; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez
Answer	Yes

Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Nicolas Turcotte - Hydro-Qu?bec TransE	inergie - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Shannon Mickens - Southwest Power Po	ol, Inc. (RTO) - 2 - MRO,WECC, Group Name SPP RTO	
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		
Glen Farmer - Avista - Avista Corporatio	n - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Steven Rueckert - Western Electricity Co	oordinating Council - 10	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Josh Combs - Black Hills Corporation - 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Micah Runner - Black Hills Corporation -		
Answer	Yes	
Document Name		

Comment	
Likes 0	
Dislikes 0	
Response	
Adrian Andreoiu - BC Hydro and Power	Authority - 1, Group Name BC Hydro
Answer	
Document Name	
Comment	
wording "under its purview" within Requiren Reliability Coordinator Area." BC Hydro acknowledges the SDT's responsintended meaning and BC Hydro supports t Reliability Standards (e.g. IRO-008, IRO-00 and helps differentiate from wording such a Area" reinforces consistency across Reliabi	ement R1 as proposed in Draft 2 of PRC-002-4. BC Hydro however is not supportive of the addition of the ment R5 Part 5.4 of proposed PRC-002-4, and recommends that this wording be replaced with "within its see to industry comments on Draft 1 to clarify that "under its purview" and "within its RC Area" have the same his interpretation. However, the wording "within its RC Area" is being consistently used in several other 19, IRO-002, IRO-010, IRO-014, IRO-017, FAC-011, FAC-014, COM-001, EOP-006, EOP-010, EOP-011) is "its Wide Area", which has a different meaning. Therefore, BC Hydro believes that using the "within its RC lity Standards and adds clarity that will alleviate the risk of possible misinterpretations. BC Hydro also locument be updated to explain this change to the wording of the Requirement R5.
Likes 0	
Dislikes 0	
Response	
Constantin Chitescu - Ontario Power Ge	neration Inc 5 - NPCC
Answer	
Document Name	
Comment	
OPG supports NPCC Regional Standards 0	Committee's comments.
Likes 0	
Dislikes 0	
Response	

2. Do you agree with including the implementation plan information in proposed Requirement R13?		
Glen Farmer - Avista - Avista Corporation	on - 5	
Answer	No	
Document Name		
Comment		
R13 could result in a variable number of no	otifications per year resulting in undue burden on the utility to implement.	
Likes 0		
Dislikes 0		
Response		
Mike Magruder - Avista - Avista Corpora	ation - 1	
Answer	No	
Document Name		
Comment		
R13 could result in a variable number of no	otifications per year resulting in undue burden on the utility to implement.	
Likes 0		
Dislikes 0		
Response		
Constantin Chitescu - Ontario Power Go	eneration Inc 5	
Answer	No	
Document Name		
Comment		
ODC automosta NDCC Designal Standards	Committee's comments and additionally ODC comments the following modification.	

OPG supports NPCC Regional Standards Committee's comments, and additionally OPG suggests the following modification:

"R13...If the equipment was installed prior to the effective date of this standard **or prior to the 5year re-evaluation/notification of newly identified BES Elements for which DDR is required,** and is not capable of continuous recording, triggered records must meet the following:..."

The above proposed wording will allow the entities identified, part of a 5year re-evaluation/notification, as owning BES Elements for which DDR is required, to use the already existing installed equipment albeit installed after the effective date of this standard and prior to the 5year re-evaluation/notification.

Likes 0	
Dislikes 0	
Response	
Constantin Chitescu - Ontario Power Ge	neration Inc 5 - NPCC
Answer	No
Document Name	
Comment	
"R13If the equipment was installed prior t BES Elements for which DDR is required The above proposed wording will allow the	Committee's comments, and additionally OPG Suggests the following modification: to the effective date of this standard or prior to the 5year re-evaluation/notification of newly identified I, and is not capable of continuous recording, triggered records must meet the following:" entities identified, part of a 5year re-evaluation/notification, as owning BES Elements for which DDR is ad equipment albeit installed after the effective date of this standard and prior to the 5year re-
Likes 0	
Dislikes 0	
Response	
Mike Magruder - Avista - Avista Corporat	tion - 1 - WECC
Answer	No
Document Name	
Comment	
R13 could result in a variable number of not	tifications per year resulting in undue burden on the utility to implement.
Likes 0	
Dislikes 0	
Response	
Robert Follini - Avista - Avista Corporatio	on - 3
Answer	No
Document Name	
Comment	

R13 could result in a variable number of no	tifications per year resulting in undue burden on the utility to implement.
Likes 0	
Dislikes 0	
Response	
Nicolas Turcotte - Hydro-Qu?bec TransE	inergie - 1
Answer	Yes
Document Name	
Comment	
	R8 that says that if the equipment was installed prior to the effective date of this standard and is not capable isting equipment with the triggers of the 8.1 and 8.2.
Likes 0	
Dislikes 0	
Response	
Allie Gavin - Allie Gavin On Behalf of: M	ichael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin
Answer	Yes
Document Name	
Comment	
Provides implementation clarification to the	ongoing re-evaluation and following R1 part 1.3 notification.
Likes 0	
Dislikes 0	
Response	
Kendra Buesgens - MRO - 1,2,3,4,5,6,7 -	MRO, Group Name MRO NSRF
Answer	Yes
Document Name	
Comment	
The MRO NSRF has no comments.	

Likes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Autl	nority - 1,3,5,6 - SERC
Answer	Yes
Document Name	
Comment	
"13.1. Within three (3) calendar years of cor R1, Part 1.2 (TO or GO) , have SER or FR or The SDT should also consider possible mis Implementation of "Annual" and "Calendar I	R13, Part 13.1 to clarify applicability. A possible rewording for Part 13.1: Impleting a re-evaluation under Requirement 1, Part 1.1 (TO) or receiving notification under Requirement data as applicable for BES Elements directly connected to the identified BES buses." -interpretations of "three (3) calendar years". Based on the <i>ERO Enterprise CMEP Practice Guide:</i> Month(s)" in the Reliability Standards (dated April 19, 2019), a Calendar Year is considered as "beginning on a notification is received in December, would the second calendar year begin on the adjacent January? The n 36 calendar months".
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA	A - Not Applicable - NA - Not Applicable
Answer	Yes
Document Name	
Comment	
EEI supports the implementation plan being	included in Requirement R13 given this is an ongoing requirement.
Likes 0	
Dislikes 0	
Response	
Carl Pineault - Hydro-Qu?bec Production	n - 5
Answer	Yes
Document Name	

Comment	
We agree but it must respect R8 that says recording, we can use the existing equipm	that if the equipment was installed prior to the effective date of this standard and is not capable of continuous ent with the triggers of R8.1 and R8.2.
Likes 0	
Dislikes 0	
Response	
Leslie Hamby - Southern Indiana Gas a	nd Electric Co 1,3,5,6 - RF
Answer	Yes
Document Name	
Comment	
be amended to "five (5) calendar years". S	the implementation plan to Requirement R13; however, SIGE recommends that the implementation period IGE believes the three-year implementation period may be too restrictive given set project cycles and severa outage constraints due to capacity shortfalls and long lead-times due to supply chain issues.
Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Pu	blic Service Co 1
Answer	Yes
Document Name	
Comment	
None	
Likes 0	
Dislikes 0	
Response	
Andy Fuhrman - Andy Fuhrman On Beh	alf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman
Answer	Yes
Document Name	

Comment	
Minnkota supports comments submitted by	the MRO NERC Standards Review Forum.
Likes 0	
Dislikes 0	
Response	
Thomas Foltz - AEP - 5	
Answer	Yes
Document Name	
Comment	
AEP thanks the Standards Drafting Team for have data in response to notification(s) und	or their consideration of AEP's previous comments, and in changing from a "three year" period of time to er R1 to a "three calendar year" period under the proposed R13.
Likes 0	
Dislikes 0	
Response	
Alison MacKellar - Constellation - 5	
Answer	Yes
Document Name	
Comment	
Moving the new SER, FR, or DDR element	timetable from the Implementation Plan to the standard requirements is the appropriate location.
Likes 0	
Dislikes 0	
Response	
Kimberly Turco - Constellation - 6	
Answer	Yes
Document Name	
Comment	

Moving the new SER, FR, or DDR element timetable from the Implementation Plan to the standard requirements is the appropriate location.		
Kimberly Turco, on behalf of Constellation S	Segements 5 and 6	
Likes 0		
Dislikes 0		
Response		
	Behalf of: Frank Lee, Pacific Gas and Electric Company, 3, 1, 5; Marco Rios, Pacific Gas and Electric as and Electric Company, 3, 1, 5; - Michael Johnson, Group Name PG&E All Segments	
Answer	Yes	
Document Name		
Comment		
PG&E agrees with locating the Implementa	tion Plan information within Requirement R13 and the clarification it is 3 calendar years.	
Likes 0		
Dislikes 0		
Response		
Andy Thomas - Duke Energy - 1,3,5,6 - S	ERC,RF	
Answer	Yes	
Document Name		
Comment		
No comments.		
Likes 0		
Dislikes 0		
Response		
Micah Runner - Black Hills Corporation -	.1	
Answer	Yes	
Document Name		

Comment		
Likes 0		
Dislikes 0		
Response		
Josh Combs - Black Hills Corporation - 3	3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Steven Rueckert - Western Electricity Co	oordinating Council - 10	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Shannon Mickens - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC, Group Name SPP RTO		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Israel Perez - Israel Perez On Behalf of:	Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Mathew Weber, Salt River Project, 3, 5, 1, 6; Sarah
Blankenship, Salt River Project, 3, 5, 1, 6	; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez
Answer	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	
Rachel Coyne - Texas Reliability Entity,	Inc 10
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		
Karie Barczak - DTE Energy - Detroit Edi	son Company - 3,4,5 - RF, Group Name DTE Energy	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
David Jendras Sr - Ameren - Ameren Ser	rvices - 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Alice Wright - Arkansas Electric Cooperative Corporation - 4 - MRO,SERC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Kenisha Webber - Entergy - NA - Not Applicable - SERC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Donna Wood - Tri-State G and T Associa	ition, Inc 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kinte Whitehead - Exelon - 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Claudine Bates - Black Hills Corporation - 6		
Answer	Yes	
Document Name		
Comment		

arles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Balancing Authority of Northern California, 1; Nicole Goi, Sacramento Municipal Utility District, 3, 6, icipal Utility District, 3, 6, 4, 1, 5; - Tim		
Yes		
Yes		
Pamela Hunter - Southern Company - Southern Company Services, Inc 1,3,5,6 - SERC		
Yes		

Response		
Adrian Andreoiu - BC Hydro and Power	Authority - 1, Group Name BC Hydro	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Andrea Jessup - Bonneville Power Adn	ninistration - 1,3,5,6 - WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mark Garza - FirstEnergy - FirstEnergy	Corporation - 4, Group Name FE Voter	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Nazra Gladu - Manitoba Hydro - 1		
Answer	Yes	
Document Name		

Comment		
Likes 0		
Dislikes 0		
Response		
Harishkumar Subramani Vijay Kumar - Ir	ndependent Electricity System Operator - 2	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
John Daho - MEAG Power - 1 - SERC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Jesus Sammy Alcaraz - Imperial Irrigation District - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

3. Provide any additional comments for the Standard Drafting Team to consider, if desired.		
Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF		
Answer		
Document Name		
Comment		
multiple challenges to implementing a trans and implementation of projects underway projects.	irements in R13.1 and R13.2 be increased from three calendar years to five calendar years. There are mission project within a three-year time period, the most prominent being that it could impact the scheduling ursuant to compliance with other standards (e.g., TPL-001). Additionally, Duke Energy operates on a 3-year puirement would present scheduling issues at the back end of the budget cycle. A five calendar year ng and implementation challenges.	
Likes 0		
Dislikes 0		
Response		
	Behalf of: Frank Lee, Pacific Gas and Electric Company, 3, 1, 5; Marco Rios, Pacific Gas and Electric as and Electric Company, 3, 1, 5; - Michael Johnson, Group Name PG&E All Segments	
Answer		
Document Name		
Comment		
PG&E wishes to thank the Standard Drafting Team (SDT) for their effort and inclusion of our and others' earlier comments in this draft		
Likes 0		
Dislikes 0		
Response		
Kimberly Turco - Constellation - 6		
Answer		
Document Name		
Comment		
Constellation has no additional comments.		

Kimberly Turco, on behalf of Constellation Segements 5 and 6		
Likes 0		
Dislikes 0		
Response		
Mark Garza - FirstEnergy - FirstEnergy C	orporation - 4, Group Name FE Voter	
Answer		
Document Name		
Comment		
N/A		
Likes 0		
Dislikes 0		
Response		
Alison MacKellar - Constellation - 5		
Answer		
Document Name		
Comment		
Constellation has no additional comments		
Likes 0		
Dislikes 0		
Response		
Thomas Foltz - AEP - 5		
Answer		
Document Name		
Comment		

While AEP agrees in principle with the overall efforts of the Standards Drafting Team, we would like to once again express our concern regarding the associated Technical Rationale document. As we shared in our previous comments, Technical Rationale documents are only to assist in the technical understanding of a requirement and/or Reliability Standard, and should not include compliance examples or compliance language. As previously stated,

AEP believes the examples provided in the proposed Technical Rationale document (especially on pages 4 through 15) go beyond mere technical understanding of the obligations and could possibly be referenced in the determination of compliance of those obligations. As such, we believe it would be more appropriate for this content to be embedded within the standard itself, perhaps as an "Attachment 3."

In future revisions of PRC-002 (i.e. outside of the current project phase), it may be worth considering the following...

- 1) Generator Owners could benefit from guidance within the standard regarding the thresholds in Step 7 of Attachment 1 and in clearly understanding when those have been met. When these obligations were originally developed, the "top 10 percent" methodology was a sound place to begin, but going forward, more flexibility in this regard would certainly be beneficial.
- 2) Develop clarity within the standard regarding re-evaluations that result in a site(s) no longer being in scope. Specifically, exactly how much time must pass until those sites may be considered no longer PRC-002 reportable?

Likes 0	
Dislikes 0	
Response	
Bret Galbraith - Seminole Electric Coope	erative, Inc 6
Answer	
Document Name	

Comment

- 1. Requirement 1.2: The revisions appear to state that if an identifying TO currently obtains SER/FR data for another entity's BES Elements connected to the same bus, then the identifying TO is responsible for collection of data for all applicable BES Elements on that bus. If the other entity adds equipment directly connected to the same bus after the study is performed, who is responsible for collecting information for the newly added BES Elements?
- 2. Requirements 5.4 and 13: It's unclear what happens to past identified BES Elements when a future revision occurs. Is the entity required to maintain compliance with the past study results, what does the transition to the new BES Elements look like, how does a transition occur if there is a shared facility and one entity is collecting another entity's SER/FR or DDR data and then decides to transition out of that location?
- 3. Step 7, the 15% value has only two significant digits, which would allow a 15.4% value to be equal to 15%. If this is not the outcome the STD wishes, we suggest the SDT to increase the significant digits to 15.0%.
- 4. The technical rationale clearly states on page 5 that directly connected requires the BES Elements to share a common ground grid. Therefore, if BES Elements are on separate ground grids, by default then, they are not directly connected is this correct?
- 5. If equipment is added to a bus, e.g., a bay is added to a substation (more breakers) or a bus is extended, is SER and FR data required for these BES Elements if the bus is currently identified as requiring SER/FR information or are these new BES Elements exempt until the subsequent study?
- 6. If two buses are modeled as a single bus pursuant to the TO's Attachment 1 process through the TO's modeling software, e.g., small generator interconnection bus connecting to existing switchyard, are both buses required to comply with SER/FR requirements if the two buses are on separate ground grids or is the TO required to model the two buses separately?
- 7. For Figure 5 in the technical rationale, if Breaker 3 was not on a common ground grid with Breakers 1 and 2 then Breaker 3 would be exempt correct?
- 8. On page 9 in the Technical Rationale, if the TO does not want to be responsible for the compliance requirement of recording data for the GO's BES Elements, can it still notify the GO of the GO's need to collect SER/FR data? This Standard is unclear as to whether if the TO has the ability to collect data whether it now becomes the entity that must show compliance. We believe that the owner of the equipment is required to show compliance, and how the owner does that can be through agreements as discussed in previous versions of this Standard. Is the STD now taking a different position on this issue?

required to have SER and FR data	al Rationale, BES Reactors connect through Breakers M and I respectively. Both Breakers M and I are collected, however, it does not appear that Breakers M or I are "directly connected" to the identified a explanation as to why these two breakers require data collection?	
Likes 0		
Dislikes 0		
Response		
Adrian Andreoiu - BC Hydro and Power	Authority - 1, Group Name BC Hydro	
Answer		
Document Name		
Comment		
BC Hydro appreciates the opportunity to co	mment.	
For consistency and clarity (as outlined in more detail in the rationale below), BC Hydro recommends that the wording "under its purview" be replaced with "within its Reliability Coordinator Area" within Requirement R5 Part R5.4.		
Rationale:		
Consistency: "within its Reliability Coordinator Area", or very similar wording, is used in several other standards, including IRO-008, IRO-009, IRO-002, IRO-010, IRO-014, IRO-017, FAC-011, FAC-014, COM-001, EOP-006, EOP-010, EOP-011, when an RC Requirement applicability purview is only RC's own footprint. Using terminology that is different from that used in other standards may be conducive to infer a different meaning.		
Clarity: In some cases the RC has a purview that extends beyond its Reliability Coordinator Area (defined in the NERC Glossary of Terms); for example, IRO-008-2 Requirements R1 and R5 reference "its Wide Area" (also a NERC Glossary Term) to describe the RC's obligation.		
More specifically to the RC's purview, the N	IERC Reliability Functional Model version 5.1 (page 30) references "Wide Area" as follows.	
"The Reliability Coordinator has the purview that is broad enough to enable the calculation of Interconnection Reliability Operating Limits."		
"Thus, the Reliability Coordinator needs a "Wide Area" view that reaches beyond its boundaries to enable it to operate within Interconnection Reliability Operating Limits."		
If the SDT intended "purview" to mean "with functional model.	nin its Reliability Coordinator Area" then this meaning could appear to be in conflict with how it is used in the	
For the reasons outlined above, BC Hydro R5 Part R5.4 will help alleviate possible mis	believes that using "within its Reliability Coordinator Area" instead of "under its purview" within Requirement sinterpretations.	
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	
Minnkota supports comments submitted by	the MRO NERC Standards Review Forum.
Likes 0	
Dislikes 0	
Response	
Kenisha Webber - Entergy - NA - Not Ap	plicable - SERC
Answer	
Document Name	
Comment	
002 2.4)? For example, in figure 8 from the	nodology, should there be an exclusion for generator collector buses, as exists in the CIP standards (i.e. CIP- Technical Rationale, if the same entity owns the Transmission and Generation buses, would both buses be hodology (if short circuit MVA falls within the 10 percent highest)? Is a generator collector bus, regardless of BES buses?
Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Pul	olic Service Co 1
Answer	
Document Name	
Comment	
None	
Likes 0	
Dislikes 0	
Response	
Constantin Chitescu - Ontario Power Ge	neration Inc 5 - NPCC

Answer		
Document Name		
Comment		
OPG supports NPCC Regional Standards Committee's comments.		
Likes 0		
Dislikes 0		
Response		
Karie Barczak - DTE Energy - Detroit Edi	son Company - 3,4,5 - RF, Group Name DTE Energy	
Answer		
Document Name		
Comment		
none at this time		
Likes 0		
Dislikes 0		
Response		
Jennifer Bray - Arizona Electric Power C	ooperative, Inc 1	
Answer		
Document Name		
Comment		
Clarifications provided in this revision are welcome changes. Thank you for the opportunity to comment.		
Likes 0		
Dislikes 0		
Response		
Leslie Hamby - Southern Indiana Gas and Electric Co 1,3,5,6 - RF		
Answer		

Document Name	
Comment	
	iod be amended to "five (5) calendar years". SIGE believes the three-year implementation period may be too eral challenges faced by the industry including outage constraints due to capacity shortfalls and long lead-
Likes 0	
Dislikes 0	
Response	
Rachel Coyne - Texas Reliability Entity, I	nc 10
Answer	
Document Name	
Comment	
disturbance monitoring equipment and there addressed. For example, there may be a n	a risk that entities may inconsistently apply Attachment 1, which could result in improper placement of efore inadequate disturbance analysis. Inadequate analysis may lead to risks to reliability not being properly eed for more buses, based on equal amounts of short circuit capability not being addressed and the urages the SDT to reevaluate including changes to Attachment 1 as part of this project.
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA	A - Not Applicable - NA - Not Applicable
Answer	
Document Name	
Comment	
EEI again notes that the Compliance languabe used in the revised Reliability Standard.	age in Section C does not appear to be the most up-to-date language. The most up-to-date language should
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	
It is our opinion that the clarifications provided in this revision are welcome changes. Thank you for the opportunity to comment.	
Likes 0	
Dislikes 0	
Response	
Dennis Chastain - Tennessee Valley Auth	nority - 1,3,5,6 - SERC
Answer	
Document Name	
Comment	
PRC-002-3. The footnote in the Draft 2 Implementation Requirement R1 or R5 within three (3) years "Transmission Operator" should be "Transmission Operator" should be "Transmission Operator" should be "Transmission Operator" languagest the footnote a "Transmission Operator" language be corresponded by the Transmission operator of languages of the Implementation Plan: "Entities of years following the notification by the Transmission operator of the Implementation Plan: "Entities of years following the notification by the Implementation of the Implementation Plan: "Entities of years following the Implementation Plan: "Entitles of years following the Years following the Implementation Plan: "Entitles of years following the Implementation Plan: "Entitles of years following the Years fol	In Plans: "Entities shall be 100 percent compliant with new BES [Bulk Electric System] Elements identified in its following the notification by the Transmission Operator or the Reliability Coordinator." Initiation of the System of the Initiation
Dislikes 0	
Response	
Recopolise	
Kendra Buesgens - MRO - 1,2,3,4,5,6,7 - I	MRO Group Name MRO NSRF
Answer	The structure with the structure of the
Allawei	

Document Name	
Comment	
STD clean up a discrepancy within this table	ement Overview for each requirement, and R5 was not changed. However, the MRO NSRF requests the e in the final draft of PRC-002-4. Section 4, Applicability, only includes the RC, TO, and GO. However, this ble entity for R5. Please revise this to RC only.
Likes 0	
Dislikes 0	
Response	
Constantin Chitescu - Ontario Power Ge	neration Inc 5
Answer	
Document Name	
Comment	
OPG supports NPCC Regional Standards (Committee's comments.
Likes 0	
Dislikes 0	
Response	
Nicolas Turcotte - Hydro-Qu?bec TransE	nergie - 1
Answer	
Document Name	
Comment	
Recommend: The GO's and TO's shall reta	ain evidence for six calendar years or since last audit period, whichever is shorter.
Likes 0	
Dislikes 0	
Response	
Shannon Mickens - Southwest Power Po	ol, Inc. (RTO) - 2 - MRO,WECC, Group Name SPP RTO
Answer	
Document Name	

Comment	
Level Requirement Overview. Currently, th	nove the Regional Entity (RE) and Planning Coordinator (PC) from the Requirement R5 section of the High is section of the standard does not align with the Functional Entities of the document. In an addition to, is only applicable to the Reliability Coordinator (RC).
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity C	oordinating Council - 10
Answer	
Document Name	
Comment	
No additional comments	
Likes 0	
Dislikes 0	
Response	
Comments received from Ruida Shu/NF	PCC RSC
1. Do you agree with the revisions to R	equirement 1?
Yes No	
Comments:	
2. Do you agree with including the imp	lementation plan information in proposed Requirement R13?
Yes No	
-	espect R8 that says that if the equipment was installed prior to the effective date of this standard and is not expected the existing equipment with the triggers of the 8.1 and 8.2.
3. Provide any additional comments fo	r the Standard Drafting Team to consider, if desired.
Comments:	
Data Retention: Recommend: The G	O's and TO's shall retain evidence for six calendar years or since last audit period, whichever is shorter

Data Retention: Recommend: The GO's and TO's shall retain evidence for six calendar years or since last audit period, whichever is shorter.

Please considering updating section C. Compliance to use the most up-to-date version of the NERC wording for section C. Compliance. The wording used in Section C. Compliance, for draft 2 of PRC-002-4, is obsolete.