

Consideration of Comments

Project Name:	2020-03 Supply Chain Low Impact Revisions (Draft 2)	
Comment Period Start Date:	2/25/2022	
Comment Period End Date:	4/15/2022	
Associated Ballot:	2020-03 Supply Chain Low Impact Revisions CIP-003-X AB 2 ST	

There were 75 sets of responses, including comments from approximately 167 different people from approximately 114 companies representing the 10 Industry Segments as shown in the table on the following pages.

All comments submitted can be reviewed in their original format on the project page.

If you feel that your comment has been overlooked, let us know immediately. Our goal is to give every comment serious consideration in this process. If you feel there has been an error or omission, contact Vice President of Engineering and Standards <u>Howard Gugel</u> (via email) or at (404) 446-9693.



Questions

1. Do you agree the updated language proposed in Attachment 1 Section 6 addresses the risk of malicious communication and vendor remote access to low impact BES cyber systems as directed by the NERC Board resolution? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

2. <u>The standard drafting team (SDT) believes that remote access is a widely used and understood term. The team has added clarifying</u> <u>language to limit the scope of this access to remote access that is conducted by vendors. Do you believe that this language is clear? If</u> you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

3. <u>Has the SDT clarified that Attachment 1 Section 6 only addresses vendor's access to low impact assets containing BES cyber systems</u> from remote locations? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

4. Do you believe the language in Attachment 1 Section 6 limits the scope to low impact BES cyber systems? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

5. Do the examples in Attachment 2 Section 6 support your understanding of what is required in Attachment 1 Section 6? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

6. <u>The SDT proposes that the modifications in CIP-003-X meet the NERC Board resolution in a cost effective manner. Do you agree? If</u> you do not agree, or if you agree but have suggestions for improvement to enable more cost effective approaches, please provide your recommendation and, if appropriate, technical or procedural justification.

7. <u>The SDT is proposing an 18-month implementation plan for Attachment 1, Section 6.1 and 6.2. The proposed implementation time</u> frame for Attachment 1, Section 6.3 is 24-months. Would these proposed timeframes give enough time to put into place process,



Questions

procedures or technology to meet the proposed language in Section 6? If you think an alternate timeframe is needed, please propose an alternate implementation plan and time period, and provide a detailed explanation of actions planned to meet the implementation deadline.

8. <u>Provide any additional comments on the standard and technical rationale document for the standard drafting team to consider, if desired</u>.



The Industry Segments are:

- 1 Transmission Owners
- 2 RTOs, ISOs
- 3 Load-serving Entities
- 4 Transmission-dependent Utilities
- 5 Electric Generators
- 6 Electricity Brokers, Aggregators, and Marketers
- 7 Large Electricity End Users
- 8 Small Electricity End Users
- 9 Federal, State, Provincial Regulatory or other Government Entities
- 10 Regional Reliability Organizations, Regional Entities



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
Tennessee Valley Authority	Brian Millard	1,3,5,6	SERC	Tennessee Valley Authority	Kurtz, Bryan G.	Tennessee Valley Authority	1	SERC
					Grant, Ian S.	Tennessee Valley Authority	3	SERC
					Thomas, M. Lee	Tennessee Valley Authority	5	SERC
					Parsons, Marjorie S.	Tennessee Valley Authority	6	SERC
Santee Cooper	Chris Wagner	1		Santee Cooper	Jennifer Richards	Santee Cooper	1,3,5,6	SERC



Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					LaChelle Brooks	Santee Cooper	1,3,5,6	SERC
					Rene' Free	Santee Cooper	1,3,5,6	SERC
					Rodger Blakely	Santee Cooper	1,3,5,6	SERC
					Bob Rhett	Santee Cooper	1,3,5,6	SERC
					Paul Camilletti	Santee Cooper	1,3,5,6	SERC
ACES Power Marketing	Jodirah Green	1,3,4,5,6	MRO,NA - Not Applicable,RF,SERC,Texas RE,WECC	ACES Standard Collaborations	Bob Solomon	Hoosier Energy Rural Electric Cooperative, Inc.	1	SERC
					Kevin Lyons	Central Iowa Power Cooperative	1	MRO
					Bill Hutchison	Southern Illinois Power Cooperative	1	SERC
					Susan Sosbe	Wabash Valley Power Association	3	RF
					Jennifer Bray	Arizona Electric Power	1	WECC



Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
						Cooperative, Inc.		
					Kylee Kropp	Sunflower Electric Power Corporation	1	MRO
					Nick Fogleman	Prairie Power, Inc.	1	SERC
					Ryan Strom	Buckeye Power, Inc.	5	RF
					Shari Heino	Brazos Electric Power Cooperative, Inc.	5	Texas RE
					Amber Skillern	East Kentucky Power Cooperative	1	SERC
					Scott Brame	North Carolina Electric Membership Corporation	3,4,5	SERC
MRO	Kendra Buesgens	1,2,3,4,5,6	MRO	MRO NSRF	Bobbi Welch	Midcontinent ISO, Inc.	2	MRO
					Christopher Bills	City of Independence Power & Light	3,5	MRO



Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					Fred Meyer	Algonquin Power Co.	3	MRO
					Jamie Monette	Allete - Minnesota Power, Inc.	1	MRO
					Larry Heckert	Alliant Energy Corporation Services, Inc.	4	MRO
					Marc Gomez	Southwestern Power Administration		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



Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					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
					George Brown	Acciona Energy North America	5	MRO
					Jaimin Patel	Saskatchewan Power Corporation	1	MRO
					Kimberly Bentley	Western Area Power Administration	1,6	MRO
LaKenya VanNorman	LaKenya VanNorman		SERC	Florida Municipal Power Agency	Chris Gowder	Florida Municipal Power Agency	5	SERC
				(FMPA)	Dan O'Hagan	Florida Municipal Power Agency	4	SERC
					Carl Turner	Florida Municipal Power Agency	3	SERC



Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					Richard Montgomery	Florida Municipal Power Agency	6	SERC
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
					Tricia Bynum	FirstEnergy - FirstEnergy Corporation	6	RF
					Mark Garza	FirstEnergy- FirstEnergy	4	RF
Southern Company - Southern Company Services, Inc.	Pamela Hunter	1,3,5,6	SERC	Southern Company	Matt Carden	Southern Company - Southern Company Services, Inc.	1	SERC
					Joel Dembowski	Southern Company - Alabama	3	SERC



Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
						Power Company		
					Ron Carlsen	Southern Company - Southern Company Generation	6	SERC
					Jim Howell	Southern Company - Southern Company Services, Inc Gen	5	SERC
Northeast Power Coordinating Council	Ruida Shu	1,2,3,4,5,6,7,8,9,10	NPCC	NPCC Regional Standards Committee	Gerry Dunbar	Northeast Power Coordinating Council	10	NPCC
					Randy MacDonald	New Brunswick Power	2	NPCC
					Glen Smith	Entergy Services	4	NPCC
					Alan Adamson	New York State	7	NPCC



Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
						Reliability Council		
					David Burke	Orange & Rockland Utilities	3	NPCC
					Helen Lainis	IESO	2	NPCC
					David Kiguel	Independent	7	NPCC
					Nick Kowalczyk	Orange and Rockland	1	NPCC
					Joel Charlebois	AESI - Acumen Engineered Solutions International Inc.	5	NPCC
					Mike Cooke	Ontario Power Generation, Inc.	4	NPCC
					Salvatore Spagnolo	New York Power Authority	1	NPCC
					Shivaz Chopra	New York Power Authority	5	NPCC



Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					Deidre Altobell	Con Ed - Consolidated Edison	4	NPCC
					Dermot Smyth	Con Ed - Consolidated Edison Co. of New York	1	NPCC
					Peter Yost	Con Ed - Consolidated Edison Co. of New York	3	NPCC
					Cristhian Godoy	Con Ed - Consolidated Edison Co. of New York	6	NPCC
					Nurul Abser	NB Power Corporation	1	NPCC
					Randy MacDonald	NB Power Corporation	2	NPCC
					Michael Ridolfino	Central Hudson Gas and Electric	1	NPCC
					Vijay Puran	NYSPS	6	NPCC
					ALAN ADAMSON	New York State	10	NPCC



Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
						Reliability Council		
					Sean Cavote	PSEG - Public Service Electric and Gas Co.	1	NPCC
					Brian Robinson	Utility Services	5	NPCC
					Quintin Lee	Eversource Energy	1	NPCC
					Jim Grant	NYISO	2	NPCC
					John Pearson	ISONE	2	NPCC
					Nicolas Turcotte	Hydro-Qu?bec TransEnergie	1	NPCC
					Chantal Mazza	Hydro-Quebec	2	NPCC
					Michele Tondalo	United Illuminating Co.	1	NPCC
					Paul Malozewski	Hydro One Networks, Inc.	3	NPCC
					Sean Bodkin	Dominion - Dominion	6	NPCC



Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
						Resources, Inc.		
					John Hastings	National Grid USA	1	NPCC
					Michael Jones	National Grid USA	1	NPCC
Portland General Electric Co.	Ryan Olson	5		PGE Group 2	Brooke Jockin	Portland General Electric Co.	1	WECC
					Dan Zollner	Portland General Electric Co.	3	WECC
					Daniel Mason	Portland General Electric Co.	6	WECC
					Ryan Olson	Portland General Electric Co.	5	WECC
Dominion - Dominion Resources, Inc.	Sean Bodkin	3,5,6		Dominion	Connie Lowe	Dominion - Dominion Resources, Inc.	3	NA - Not Applicable
					Lou Oberski	Dominion - Dominion	5	NA - Not Applicable



Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
						Resources, Inc.		
					Larry Nash	Dominion - Dominion Virginia Power	1	NA - Not Applicable
				Rachel Snead	Dominion - Dominion Resources, Inc.	5	NA - Not Applicable	
	Steven Rueckert	10		WECC Entity Monitoring	Steve Rueckert	WECC	10	WECC
					Phil O'Donnell	WECC	10	WECC
	Teresa Krabe		LCRA Compliance	Michael Shaw	LCRA	6	Texas RE	
					Dixie Wells	LCRA	5	Texas RE
					Teresa Cantwell	LCRA	1	Texas RE



1. Do you agree the updated language proposed in Attachment 1 Section 6 addresses the risk of malicious communication and vendor remote access to low impact BES cyber systems as directed by the <u>NERC Board resolution</u>? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

Richard Jackson - U.S. Bureau of Reclamation - 1,5		
Answer	Νο	
Document Name		
Comment		

Reclamation recommends the SDT align the CIP-003 Attachment 1 Section 6 language with CIP-005-6 R2 and use NERC-defined terms where possible. The content of Section 6 should be included within Attachment 1 Section 3 and not made into a new section. Reclamation recommends adding "if technically feasible" to Section 6.2 to account for leagacy systems that are not capable of detecting k nown or suspected malicious communications for both inbound and outbound communications.

Reclamation recommends the following changes to Section 6:

From:

Vendor remote access: For assets containing low impact BES Cyber System(s) identified pursuant to CIP -002, the Responsible Entity shall implement a process to mitigate risks associated with vendor remote access (including interactive and system -to-system access) to low impact BES Cyber Systems that includes:

6.1 Having one or more method(s) for determining vendor remote access sessions;

6.2 Having one or more method(s) for detecting known or suspected malicious communications for both inbound and outbound communications; and

6.3 Having one or more method(s) for disabling vendor remote access.

To:

Vendor remote access: For assets containing low impact BES Cyber System(s) identified pursuant to CIP-002, the Responsible Entity shall implement a process to mitigate risks associated with active vendor remote access sessions (including **Interactive Remote Access** and system-to-system **remote** access) to low impact BES Cyber Systems that includes:

6.1 Having one or more method(s) for identifying active vendor remote access sessions;

6.2 If technically feasible, have one or more method(s) for detecting known or suspected malicious communications for both inbound and outbound communications; and

6.3 Having one or more method(s) for disabling **active** vendor remote access.

The phrase "determining active vendor remote access sessions" is not clear. Reclamation recommends using the same language as in the Technical Rationale, which refers more specifically to "when sessions are initiated."

Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT o	considered your recommendations and concerns to better clarify the standard language.	
Andrea Jessup - Bonneville Power Administration - 1,3,5,6 - WECC		
Answer	Νο	
Document Name		
Comment		

As with the previous draft, Section 6.3 still creates a higher bar for some assets containing low impact BCS than for most me dium impact BCS. Section 6.3 would require detection of malicious inbound and outbound communications for low impact BCS with vend or remote connectivity. In the current version and next effective version of CIP-005, Part 1.5 requires detection of malicious inbound and outbound communications only for medium impact BCS at **Control Centers**.

The Technical Rationale points out that Mediums already have other requirements ("use of intermediate systems and multi-factor authentication") which can be used to PROTECT against malicious communication; however, none of those requirements specifically

require that entities DETECT malicious communication at Mediums. Until this gap is fixed, entities will be expected to detect malicious communications at certain of their Low assets but none of their Medium assets outside of a control center.

In addition, BPA is concerned that by not properly limiting the scope statement for Section 6 to sites with vendor remote access, we may have to prove a negative.

BPA recommends the following *revision*:

Section 6. Electronic Vendor Remote Access Security Controls: For assets containing low impact BES Cyber System(s) *with vendor remote access* identified pursuant to CIP-002, the Responsible Entity shall implement a process to mitigate risks associated with electronic vendor remote access. These processes shall include...

Likes 0	
Dislikes 0	
Response	
the possibility of having to prove a nega	ing team has reviewed your recommendations to improve the scope, and your concerns regarding tive to an enforcement entity. The SDT also recognizes your concerns that the detection of ed for Medium impact system, and has made some clarifying changes.
Sean Bodkin - Dominion - Dominion Res	sources, Inc 3,5,6, Group Name Dominion
Answer	No
Document Name	
Comment	
0	r suspected malicious communications" for low impact BES Cyber Systems would be more ince Medium Impact BES Cyber Systems are not applicable in the current version of the standards benefits.
Likes 0	
Dislikes 0	



Response

Thank you for your comment. The drafting team recognizes your concerns that the detection of malicious communications is not required for Medium impact system and addressed this in the Technical Rationale (TR).

Devon Tremont - Taunton Municipal Lighting Plant - 1			
Answer	Νο		
Document Name			
Comment			
Based on comments below, we conclud vendor remote access.	e the proposed updates do not adequately address the risk of malicious communication and		
Likes 0			
Dislikes 0			
Response			
Thank you for your comment. The draft	ing team addressed these concerns within the TR.		
Clay Walker - Clay Walker On Behalf of: John Lindsey, Cleco Corporation, 6, 5, 1, 3; Maurice Paulk, Cleco Corporation, 6, 5, 1, 3; Robert Hirchak, Cleco Corporation, 6, 5, 1, 3; - Clay Walker			
Answer	Νο		
Document Name			
Comment			
See EEI comment.			
Likes 0			
Dislikes 0			
Response			



Thank you for your comment. See our r	esponse to EEI.	
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter		
Answer	No	
Document Name		
Comment		
FirstEnergy feels Attachment 1 Section Section 6.3 needs to be drafted to be as	6.3 is not clear in its intention of the standard and obligation of industry. We feel Attachment 1 clear as 6.1 and 6.2	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The draft information in the TR.	ing team has further clarified the intent of Attachment 1 Section 6.3. Please see additional	
Lynn Goldstein - PNM Resources - Publ	ic Service Company of New Mexico - 1	
Answer	No	
Document Name		
Comment		
proposed language in 6.1 and 6.2 which PNM supports EEI comments regarding	yord "active" in 6.1 and 6.2. However, with the inclusion of the word "active", the current a reads, "where such access has been established under Section 3" may be redundant. 6.3 to more specifically narrow the scope of detecting known or suspected malicious butbound "electronic vendor remote access, where such access has been established under	
Likes 0		

Dislikes 0		
Response		
Thank you for your comment. Please se	e our response to EEI.	
patricia ireland - DTE Energy - 4		
Answer	No	
Document Name		
Comment		
Referto NAGF comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please se	e our response to NAGF.	
Carl Pineault - Hydro-Qu?bec Production	on - 1,5	
Answer	Νο	
Document Name		
Comment		
Based on comments below, we conclud vendor remote access.	e the proposed updates do not adequately address the risk of malicious communication and	
Likes 0		
Dislikes 0		
Response		



Thank you for your comment. See our r	esponses to each of your individual comments.
Alan Kloster - Alan Kloster On Behalf o 5; Thomas ROBBEN, Evergy, 6, 1, 3, 5; -	f: Allen Klassen, Evergy, 6, 1, 3, 5; Derek Brown, Evergy, 6, 1, 3, 5; Marcus Moor, Evergy, 6, 1, 3, Alan Kloster
Answer	No
Document Name	
Comment	
Evergy supports and incorporates the co	omments from the Edison Electric Institute (EEI) for questions #1.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Please se	e our response to EEI.
Adrian Andreoiu - BC Hydro and Power	• Authority - 1, Group Name BC Hydro
Answer	Νο
Document Name	
Comment	
BC Hydro appreciates the opportunity to	o reeview and provides the following comments.

BC Hydro's assessment is that the language proposed in CIP-003-X attachment 1 Section 6 does not comprehensively address the risk of malicious communication and vendor remote access to low impact BES cyber systems with possible areas of improvement as follows:

- The language used in CIP-003-X attachment 1 Section 6.3 is referring to 'known or suspected malicious communications'. BC Hydro recommends adding more clarity and provide examples of use cases and applicability. Specifically, context and usage of the term 'malicious communication' needs more clarity and BC Hydro requests to provide the context and usage with pertinent examples and use case scenarios to improve understanding and to better scope the requirements.
- Similarly, BC Hydro proposes defining and adding the term 'Electronic Vendor Remote Access' to NERC Glossary of Terms



• Bc Hydro also suggests that who and what is to be considered a 'Vendor' needs to be defined in the Glossary of Terms for clarity.

CIP-005-5 R1.5 does not apply to Medium impact BCS if they are not at Control Centers. Why and how the Requirement in Section 6.3 applies to 'Low Impact BCS' is not very clear from the language used. The Section 6.3 does offer possible mitigation of the risks i.e., 'malicious communication and vendor remote access; however, this is even more stringent on Low Impact BCS in comparison to CIP-005-5 R1.5. BC Hydro recommends rewording or removing Section 6.3 completely.

Likes O	
Dislikes 0	
Response	
Thank you for your commen	t. The team has added clarifying information in the TR.
Gerry Adamski - Cogentrix E	nergy Power Management, LLC - 5
Answer	Νο
Document Name	
Comment	
Comment For this question we conclud access.	le the proposed updates do not adequately address the risk of malicious communication and vendor remote
Comment For this question we conclud access. Likes 0	le the proposed updates do not adequately address the risk of malicious communication and vendor remote
Comment For this question we conclud access. Likes 0 Dislikes 0	le the proposed updates do not adequately address the risk of malicious communication and vendor r emote
Comment For this question we conclud access. Likes 0 Dislikes 0 Response	le the proposed updates do not adequately address the risk of malicious communication and vendor remote
Comment For this question we conclud access. Likes 0 Dislikes 0 Response Thank you for your comment	
Comment For this question we conclud access. Likes 0 Dislikes 0 Response Thank you for your comment	t. The SDT added clarifying changes to both the language and the TR.



Comment

NextEra Energy respectfully submits the following language changes to Attachment 1 and Attachment 2 replacing "electronic vendor remote access" with "Vendor Electronic Remote Access" for consistency and clarification.

Consider the following language:

x Attachment 1

Section 6. Vendor Electronic Remote Access Security Controls: For assets containing low impact BES Cyber System(s) identified pursuant to CIP-002, the Responsible Entity shall implement a process to mitigate risks associated with **vendor electronic remote access**. These processes shall include:

6.1 One or more method(s) for determining vendor electronic remote access where such access has been established under Section 3;

6.2 One or more method(s) for disabling vendor electronic remote access where such access has been established under Section 3; and

6.3 One or more method(s) for detecting known or suspected malicious communications for both inbound and outbound vendor communications **supporting vendor electronic remote access**.

CIP-003-x Attachment 2

Section 6. Vendor Electronic Remote Access Security Controls: Examples of evidence showing the implementation of the process for Section 6 to mitigate risks associated with **vendor electronic remote access** may include, but are not limited to:

1. For Section 6.1, documentation showing method(s) for determining vendor electronic remote access where such access has been established under Section 3 that may including the following:

- steps to preauthorize access;
- alerts generated by vendor log on;
- session monitoring;



- Security Information Management logging alerts;
- time-of-need session initiation;
- session recording;
- system logs; or
- other operational, procedural, or technical controls.

2. For Section 6.2, documentation showing method(s) for disabling vendor electronic remote access where such access has been established under Section 3 that may including the following:

- disabling vendor electronic remote access user or system accounts;
- disabling inbound and/or outbound hardware or software ports, services, or access permissions on applications, fi rewall, IDS/IPS, router, switch, VPN, Remote Desktop, remote control, or other hardware or software used for providing active vendor electronic remote access;
- disabling communications protocols (such as IP) used for systems which establish and/or maintain active **vendor electronic remote access**;
- Removing physical layer connectivity (e.g., disconnect an Ethernet cable, power down equipment);
- administrative control documentation listing the methods, steps, or systems used to disable active v endor electronic remote access; or
- other operational, procedural, or technical controls.

3. For Section 6.3, documentation showing implementation of **method(s) for detecting known or suspected malicious communications** for both inbound and outbound vendor electronic access communications that may including the following:

• Firewall policies;



- Intrusion Detection System (IDS)/Intrusion Prevention System (IPS);
- Virtual Private Network (VPN) hosts;
- manual log reviews; or
- other operational, procedural, or technical controls.

Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The draft	ing team has addressed these concerns in the current draft.	
Gail Elliott - International Transmission	Company Holdings Corporation - NA - Not Applicable - MRO,RF	
Answer	No	
Document Name		
Comment		
	mpact level must be very succinct otherwise risk overwhelming already taxed resources devoted developed to limit the scope of communications that will be covered.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT is carefully balancing your concerns with the need to address identified cyber risks to the Bulk Electric System.		
Teresa Krabe - Lower Colorado River Authority - 5, Group Name LCRA Compliance		
Answer	No	



Document Name		
Comment		
	improved upon since the last posting; however, LCRA believes it would be more clear an d chement 1 Section 6 more closely resemble the language as written in the NERC Board resolution	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The draft however not all entities agree that CIP-	ing team continues to try and improve the language using CIP-005 language as a reference point, 005 language usage is more clear.	
Wayne Sipperly - North American Gene	erator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF	
Answer	No	
Document Name		
Comment		
The NAGF previously recommended that the SDT align the language to include the word "active", which is utilized in both the Board Resolution and CIP-005 R2.4. The NAGF is concerned that using the word "electronic" may cause a differing definition and expectation to be developed over time compared to the objective of the language in the Board Resolution. Does the SDT view "active" and "electronic" as synonymous terms? If the SDT does not see "active" and "electronic" remote vendor access as synonymous further definition of "electronic" is required.		
Likes 0		
Dislikes 0		
Response		

Thank you for your comments. The drafting team does not see the terms "active" and "electronic" as synonymous. There were many comments asking for clarity of the term "active" in the last posting, some feeling that it was not limited to remote electronic communications. The SDT made clarifying changes to both the standard language and the TR.

James Baldwin - Lower Colorado River Authority - 1		
Answer	Νο	
Document Name		
Comment		
consistent to have the language in Attac and the CIP-005 Standard. Likes 0	improved upon since the last posting; however, LCRA believes it would be more clear and chement 1 Section 6 more closely resemble the language as written in the NERC Board re solution	
Dislikes 0		
Response		
Thank you for your comments. The drafting team does not see the terms "active" and "electronic" as synonymous. There were many comments asking for clarity of the term "active" in the last posting, some feeling that it was not limited to remote electronic communications. The SDT made clarifying changes to both the standard language and the TR.		

Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable	
Answer	No
Document Name	
Comment	

EEI recognizes that the proposed changes under this project are intended to align with the NERC Board resolution, however, EEI is concerned that the proposed Draft 2 language in Attachment 1, Section 6 goes beyond the intent of the Board resolution by being overly broad. In addition, the proposed language in Section 6 is not risk-based and could be understood to mean all low impact BES Cyber System communications are included. As a result, entities would be faced with difficult choices that include how to safely allocate scarce



resources (i.e., limited budgets and qualified SMEs) to meet existing CIP-003 requirements while also covering the unfettered expansion of low impact BES Cyber System communications. To address this concern, we ask that the SDT employ a risk-based approach that allows entities to develop processes that focus their resources on those systems that represent known risks.

In addition to the above concern, EEI supports the proposed language in Section 6, subparts 6.1 and 6.2 but suggests some min or edits as indicated in the bold text below. In particular the proposed language for subpart 6.3 is not sufficiently aligned with communications as established under Section 3. The introduction of the new undefined term "vendor communications" needs additional explanation or clarification because it is treated separately and not aligned with Section 3. For these reasons, we recommend adding the text in bold to define the scope more clearly.

Section 6: Electronic Vendor Remote Access Security Controls: For assets containing low impact BES Cyber System(s) identified pursuant to CIP-002, the Responsible entity shall implement a process to mitigate risks associated with electronic vendor remote access. These process shall include:

6.1: One or more method(s) for determining **when active** electronic vendor remote access **has been initiated**; where such access has been established under Section 3;

6.2: One or more method(s) for disabling **active** electronic vendor remote access **when necessary**; where such access has been established under Section 3; and

6.3: One or more method(s) for detecting known or suspected malicious communications for both inbound and outbound **electronic** vendor **remote access, where such access has been established under Section 3**.

Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The drafting team has addressed these concerns in the current draft.	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC Regional Standards Committee	
Answer	No
Document Name	



Comment

Based on the comments below, we conclude the proposed updates do not adequately address the risk of malicious communication and vendor remote access.

Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT b	pelieves we have met the requirements of the current SAR.
Brian Evans-Mongeon - Utility Services, Inc 4	
Answer	No
Document Name	
Comment	

The language used in of the NERC Board resolution states the CIP-003 is "to include policies for low impact BES Cyber Sytems…". We agree with the SDT's interpretation that 3 controls listed in the resolution should be addressed not only in the CIP-003 R1.2, policies but in the plans required in CIP-003 R2 and Attachment 1. While the R2 additions are an expansion beyond the NERC Board resolution, they are required to meet the intent of the resolution.

Because CIP-003 Attachment 1 is written to apply at the "assets containing low impact BES Cyber Systems" and not to just the "BES Cyber Systems", the 3 controls listed in the NERC Board resolution could be required to be applied to more than low impact BCS. This expansion in scope beyond low impact BCS is not required by the NERC Board resolution. The expansion could include additional controls being required for medium and high impact Cyber Assets beyond what are included in as "Applicable Systems" in CIP-005 R1.5 and R3. Regarding the control concerning malicious communication, we feel that this should be limited to only low impact BCS at Control Centers to align with CIP-005 R1.5.

An interpretation of what the SDT has proposed could require the detection of malicious voice communication, text messages, or emails from anyone to anyone that is at an asset containing low impact BES Cyber Systems.

The NERC Board resolution includes the implementation of controls to "disable active vendor remote access." CIP-005 R2.5 addresses disabling active vendor remote access and R3.2 addresses terminating vendor initiated remote connections. The actions listed in Attachment 2 and the language used in the Technical Rational for Attachment 1 Section 6 Part 6.2 combine disabling and terminating as part of the required control. The SDT should limit the scope to disabling active vendor remote access.

Likes O	
Dislikes 0	

Response

Thank you for your comment. The SDT is attempting to make the language risk-based and believes as it is currently drafted allows entities to draft their program in a way that meets their unique set up in regards to vendor remote access. The SDT updated language in Section 6 so that the statement "as established under Section 3.1" applies to all parts of Section 6 to better define the communication s scope. The SDT updated the TR to use the term "disable" instead of "terminate" to be consistent with the draft standard language.

Daniel Gacek - Exelon - 1	
Answer	No
Document Name	
Comment	
understand, however IDS can help with at lows without having all of the inform	accomplish this, however it would be difficult to tell what the malicious intent really is. We do the inspection of packets. But without the information it could be expensive. Deploying controls accounted for is concerning. This would require the need to have IPS on all of the low has concerns around subpart 6.3 additional clarity is needed. The new term "vendor
Likes 0	
Dislikes 0	
Response	



Thank you for your comment. The SDT is attempting to make the language risk-based and believes as it is currently drafted allows entities to draft their program in a way that meets their unique set up in regards to vendor remote access. Additionally, the term "vendor communications" has been removed from the draft standard.

Kinte Whitehead - Exelon - 3	
Answer	No
Document Name	
Comment	

Exelon believe registered entities could accomplish this, however it would be difficult to tell what the malicious intent really is. We do understand, however IDS can help with the inspection of packets. But without the information it could be expensive. Deploying controls at lows without having all of the information accounted for is concerning. This would require the need to have IPS on all of the low firewalls, including monitoring. Exelon has concerns around subpart 6.3 additional clarity is needed. The new term "vendor communications" needs explanation.

Likes 0	
Dislikes 0	
Response	
	s attempting to make the language risk-based and believes as it is currently drafted allows entities ets their unique set up in regards to vendor remote access. Additionally, the term "vendor om the draft standard.
Kimberly Turco - Constellation - 6	
Answer	No
Document Name	
Comment	
Constellation has elected to align with Exelon in response to this question.	

Entities could accomplish this, however it could be difficult to tell what malicious intent really is. We do understand IDS can help with the inspection of packets. Without the information it could be expensive. Deploying controls at lows without having all of the information accounted for is concerning. This would require the need to have IPS on all of the low firewalls, including monitoring. Exelon has concerns around subpart 6.3 additional clarity is needed. The new term "vendor communications" needs explanation.

Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT is attempting to make the language risk-based and believes as it is currently drafted allows entities to draft their program in a way that meets their unique set up in regards to vendor remote access. Additionally, the term "vendor communications" has been removed from the draft standard.	
Alison Mackellar - Constellation - 5	
Answer	No
Document Name	
Comment	
Constellation has elected to align with Exelon in response to this question. Entities could accomplish this, however it could be difficult to tell what malicious intent really is. We do understand IDS can help with the inspection of packets. Without the information it could be expensive. Deploying controls at lows without having all of the information accounted for is concerning. This would require the need to have IPS on all of the low firewalls, including monitoring. Exelon has concerns around subpart 6.3 additional clarity is needed. The new term "vendor communications" needs explanation.	
Likes 0	
Dislikes 0	
Response	



	s attempting to make the language risk-based and believes as it is currently drafted allows entities
to draft their program in a way that meets their unique set up in regards to vendor remote access. Additionally, the term "vendor communications" has been removed from the draft standard.	
Jamie Monette - Allete - Minnesota Power, Inc 1	
Answer	No
Document Name	
Comment	
Minnesota Power is in agreement with I addresses the purpose/goal as stated in	Edison Electrical Institute's (EEI) comments and believes the drafted language more adequately the SAR and Technical Rationale
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Please se	e our response to EEI.
LaKenya VanNorman - LaKenya VanNorman On Behalf of: Chris Gowder, Florida Municipal Power Agency, 6, 5, 3, 4; Richard Montgomery, Florida Municipal Power Agency, 6, 5, 3, 4; - LaKenya VanNorman, Group Name Florida Municipal Power Agency (FMPA)	
Answer	No
Document Name	
Comment	
FMPA supports comments from Utility Services, Inc.	
Likes 0	
Dislikes 0	
Response	



Thank you for your comment. Please se	ee our response to Utility Services, Inc.
Ryan Olson - Portland General Electric	Co 5, Group Name PGE Group 2
Answer	No
Document Name	
Comment	
Portland General Electric Company (PG	E) supports the survey response provided by EEI.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Please se	ee our response to EEI comments.
Russell Noble - Cowlitz County PUD - 3	
Answer	No
Document Name	
Comment	
Cowlitz PUD supports the comments su	bmitted by Utility Services Inc.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Please se	ee our response to Utility Services, Inc.
Roger Fradenburgh - Roger Fradenburg	gh On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh



Answer	Νο
Document Name	
Comment	
NST notes that the NERC BoT's resolution to remote connections to or from vend	on, as written, does not explicitly limit the application of a malicious code detection requireme nt ors.
Likes 0	
Dislikes 0	
Response	
discussions and a review of the Supply	had several conversations about this topic with NERC compliance and legal staff. Based on these Chain report, the team determined that the SAR and the NERC Board: "Resolution for Agenda Item vere focused only on supply chain risks posed through vendor electronic access.
Daniel Mason - Portland General Elect	ric Co 6
Answer	No
Document Name	
Comment	
PGE supports the survey response prov	rided by EEI.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Please se	e our response to EEI.
Deanna Carlson - Cowlitz County PUD	- 5
Answer	Νο



Document Name	
Comment	
Cowlitz PUD supports the comments su	bmitted by Utility Services Inc.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Please se	e our response to Utility Services, Inc.
Ellese Murphy - Duke Energy - 1,3,5,6 -	MRO,WECC,Texas RE,SERC,RF
Answer	Yes
Document Name	
Comment	
While we agree with the updated langu clarity.	age as a whole, we support EEI's proposed modification to Attachment 1 Section 6, as it adds
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Please se	e our response to EEI.
Wes DeKemper - Southern Indiana Gas	and Electric Co 3,5,6 - RF
Answer	Yes
Document Name	



Comment	
No comment	
Likes 0	
Dislikes 0	
Response	
Glen Farmer - Avista - Avista Corporati	on - 5
Answer	Yes
Document Name	
Comment	
It does address the risk, but as written i Systems.	ncreases some security requirements beyond what is required for Medium Impact BES Cyber
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Applying all Mediums is addressed in the TR.	measures to mitigate against malicious communications being applied to Low Impact BCS and not
Susan Sosbe - Wabash Valley Power As	sociation - 3
Answer	Yes
Document Name	
Comment	

While the proposed language addresses the risks outlined by the NERC Board resolution, adding the word "vendor", not a NERC defined term, to the requirement from the previously posted : "One or more method(s) for detecting known or suspected malicious communications for both inbound and outbound vendor communications" doesn't materially change this requirement is more stringent than those required by CIP-005 R1.5 for medium impact BES Cyber Systems NOT at Control Centers. Further reducing the scope of the requirement to only vendor communications, we don't feel reduces risks to an acceptable level for NERC or FERC. If entities are going to be required to detect malicious communications, it should be all or nothing. Additionally, vendor is not a NERC defined term, so having to prove each monitored communication path is or isn't for a vendor would be overly burdensome.

Likes 0	
Dislikes 0	

Response

Thank you for your comment. The SDT had several conversations with NERC compliance and legal staff about this topic. Based on these discussions and a review of the Supply Chain report, the team determined that the SAR and the NERC Board: "Resolution for Agenda Item 8.d: Supply Chain Recommendations" were focused only on supply chain risks posed through vendor electronic access. Also see the draft TR for a discussion on vendor.

Scott Kinney - Avista - Avista Corporati	on - 3
Answer	Yes
Document Name	
Comment	
It does address the risk, but as written i Systems.	ncreases some security requirements beyond what is required for Medium Impact BES Cyber
Likes 0	
Dislikes 0	
Response	

Thank you for your comment. Applying measures to mitigate against malicious communications being applied to Low Impact BCS and not all Mediums is addressed in the TR.

Jennifer Bray - Arizona Electric Power Cooperative, Inc 1	
Answer	Yes
Document Name	
Comment	

AEPCO is signing on to ACES comments below:

ACES Comments: While the proposed language addresses the risks outlined by the NERC Board resolution, adding the word "vendor", not a NERC defined term, to the requirement from the previously posted : "One or more method(s) for detecting known or suspected malicious communications for both inbound and outbound vendor communications" doesn't materially change this requirement is more stringent than those required by CIP-005 R1.5 for medium impact BES Cyber Systems NOT at Control Centers. Further reducing the scope of the requirement to only vendor communications, we don't feel reduces risks to an acceptable level for NERC or FERC. If entities are going to be required to detect malicious communications, it should be all or nothing. Additionally, vendor is not a NERC defined term, so having to prove each monitored communication path is or isn't for a vendor would be overly burdensome.

Likes 0	
Dislikes 0	

Response

Thank you for your comment. The SDT had several conversations with NERC compliance and legal staff about this topic. Based on these discussions and a review of the Supply Chain report, the team determined that the SAR and the NERC Board: "Resolution for Agenda Item 8.d: Supply Chain Recommendations" were focused only on supply chain risks posed through vendor electronic access. Also see the draft TR for a discussion on vendor.

Kendra Buesgens - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF	
Answer	Yes
Document Name	



Comment	
The MRO NERC Standards Review Forur	n (NSRF) agrees proposed language addresses the risk.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment.	
George Brown - Acciona Energy North	America - 5
Answer	Yes
Document Name	
Comment	
Acciona Energy supports Midwest Relia	bility Organization's (MRO) NERC Standards Review Forum's (NSRF) comments on this questi on.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment.	
David Jendras - Ameren - Ameren Serv	ices - 3
Answer	Yes
Document Name	
Comment	



We agee because this gives the ability t ins?).	o disconnect, we ask the drafting team to include examples of evidence for this requi rement (log
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT p	provided examples of evidence for Section 6 in Attachment 2.
Mike Magruder - Avista - Avista Corpor	ration - 1
Answer	Yes
Document Name	
Comment	
Systems.	ncreases some security requirements beyond what is required for Medium Impact BES Cyber
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Applying all Mediums has been discussed in the T	measures to mitigate against malicious communications being applied to Low Impact BCS and not IR.
Brian Lindsey - Entergy - 1	
Answer	Yes
Document Name	
Comment	



No 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 Standard Collaborations
Answer	Yes
Document Name	
Comment	
term, to the requirement from the prev communications for both inbound and of than those required by CIP-005 R1.5 for requirement to only vendor communication be required to detect malicious commu prove each monitored communication p	s the risks outlined by the NERC Board resolution, adding the word "vendor", not a NERC defined iously posted : "One or more method(s) for detecting known or suspected malicious outbound vendor communications" doesn't materially change this requirement is more stringent medium impact BES Cyber Systems NOT at Control Centers. Further reducing the scope of the ations, we don't feel reduces risks to an acceptable level for NERC or FERC. If entities are going to nications, it should be all or nothing. Additionally, vendor is not a NERC defined term, so having to path is or isn't for a vendor would be overly burdensome.
Likes 0	
Dislikes 0	
Response	
	had several conversations with NERC compliance and legal staff about this topic. Based on these
	Chain report, the team determined that the SAR and the NERC Board: "Resolution for Agenda Item vere focused only on supply chain risks posed through vendor electronic access. Also see the draft

TR for a discussion on vendor.

Answer	Yes
Document Name	2020-03_Supply_Chain_Lows_Unofficial_Comment_Form.docx
Comment	
absence of the term "active" bro mpact BES cyber assets. In part R2.5 focuses the requirements o Attachment 1, Sections 6.1 and 6	posed language addresses the risks identified by the NERC Board Resolution, it is concerned that the oadens this requirement beyond the obligations set forth to manage vendor access for medium and high ticular, the language of the similar requirements for vendor access management in CIP-005-7, R2.4 and on determining and disabling "active vendor remote access sessions." The language proposed in 6.2, however, could be interpreted to apply to any authorized vendor remote access – regardless of initiated or is in an active remote access session.
mpact BES cyber assets and app Technical Rationale document. and not more stringent than tho	It in low impact BES cyber assets being subject to more stringent security controls than high or medium bears to conflict with the Technical Rationale for these sections as provided on page 5 of the proposed To ensure that the security controls applied to low impact BES cyber assets are commensurate with risk ose applied to high and medium impact BES cyber assets, GSOC recommends that the SDT mirror the R2.4 and R2.5 to the extent possible. For example, revisions could be made as follows:
• .	t BES Cyber System(s) identified pursuant to CIP -002, the Responsible Entity shall implement a process to lectronic vendor remote access. These processes shall include:
5.1 One or more method(s) for d under Section 3;	determining active electronic vendor remote access sessions where such access has been establis hed
6.2 One or more method(s) for d	disabling active electronic vendor remote access where such access has been established under Section 3
Likes 0	
Likes 0 Dislikes 0 Response	

believes it is currently drafted to allow entities to draft their program in a way that meets their unique set up in regards to vendor remo	te
access.	

Applying measures to mitigate against malicious communications being applied to Low Impact BCS and not all Mediums is addressed in the TR.

Patricia Lynch - NRG - NRG Energy, Inc 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Jay Sethi - Manitoba Hydro - 1,3,5,6 - MRO		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Jennifer Malon - Jennifer Malon On Behalf of: Don Stahl, Black Hills Corporation, 3, 5, 1, 6; - Black Hills Corporation - 1,3,5,6 - MRO,WECC		



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	
Joseph Amato - Joseph Amato On Beha Amato	alf of: Darnez Gresham, Berkshire Hathaway Energy - MidAmerican Energy Co., 1, 3; - Joseph
Answer	Yes
Document Name	
Comment	

Likes 0		
Dislikes 0		
Response		
Brian Millard - Tennessee Valley Authority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Chris Wagner - Santee Cooper - 1, Group Name Santee Cooper		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mike Marshall - IDACORP - Idaho Powe	er Company - 1	



Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Lan Nguyen - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE		
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		
JT Kuehne - AEP - 6		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Jeanne Kurzynowski - CMS Energy - Consumers Energy Company - 1,3,5 - RF		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Lindsey Mannion - ReliabilityFirst - 10		
Answer	Yes	



Indiana Public Service Co 1		
Yes		
Comment		
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC Entity Monitoring		
Yes		



Response		
Michelle Amarantos - APS - Arizona Pu	blic Service Co 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Jesus Sammy Alcaraz - Imperial Irrigation	on District - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; Foung Mua, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; Kevin Smith, Balancing Authority of Northern California, 1; Nicole Goi, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; Nicole Looney, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; - Tim Kelley		
Answer	Yes	



Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Lindsay Wickizer - Berkshire Hathaway	- PacifiCorp - 6	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Israel Perez - Salt River Project - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		



Response		
Larry Heckert - Alliant Energy Corporati	ion Services, Inc 4	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Donna Wood - Tri-State G and T Association, Inc 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
LaTroy Brumfield - American Transmission Company, LLC - 1		
Answer	Yes	
Document Name		



Comment	
Likes 0	
Dislikes 0	
Response	
Dwanique Spiller - Dwanique Spiller O	n Behalf of: Kevin Salsbury, Berkshire Hathaway - NV Energy, 5; - Dwanique Spiller
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Pamela Hunter - Southern Company - S	Southern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

NERC
NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION

Rachel Coyne - Texas Reliability Entity, Inc 10	
Answer	
Document Name	
Comment	
satisfied. Texas RE suggests the SAR an suspected malicious communications fo communications. Texas RE continues to and outbound network traffic to mitiga	legal looking into the issue of whether or not Part 1 of the NERC resolution has been d the report do provide flexibility for the SDT to consider language for detecting known or or all inbound and outbound communications, and not be limited to vendor inbound and outb ound o recommend the SDT clarify that CIP-003 low impact monitoring obligations extend to all inbound te the risk of suspicious or malicious traffic going unnoticed, not just in situations of vendor roach is consistent with FERC's January 20, 2022 Notice of Proposed Rulemaking (NOPR) regarding
Likes 0	
Dislikes 0	
Response	
discussions and a review of the Supply (had several conversations with NERC compliance and legal staff about this topic. Based on these Chain report, the team determined that the SAR and the NERC Board: "Resolution for Agenda Item were focused only on supply chain risks posed through vendor electronic access. Also see the draft
Joe Gatten - Xcel Energy, Inc 1,3,5,6 -	MRO,WECC
Answer	
Document Name	

Comment



Xcel Energy agrees that Attachment 1 Section 6 addresses the risk malicious communication posed by vendors accessing low impact BES cyber systems from remote locations. However, there is a lack of clarity of which types of cyber assets are in scope for subpart 6.3. Xcel Energy suggests that language of "as established in section 3" be added to section 6.3 as it is in sections 6.1 and 6.2.

Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT updated the language in Section 6 so that the statement "as established under Section 3.1" applies to all parts of Section 6.	
John Galloway - John Galloway On Beh	alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway
Answer	
Document Name	
Comment	
No comment.	
Likes 0	
Dislikes 0	
Response	



2. The standard drafting team (SDT) believes that remote access is a widely used and understood term. The team has added clarifying language to limit the scope of this access to remote access that is conducted by vendors. Do you believe that this language is clear? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

Deanna Carlson - Cowlitz County PUD - 5		
Answer	No	
Document Name		
Comment		
Cowlitz PUD supports the comments submitted by Utility Services Inc.		
Likes 0		
Dislikes 0		
Response		
Thank you, please see our response to Utility Services, Inc.		
Pamela Hunter - Southern Company - S	outhern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company	
Answer	No	
Document Name		
Comment		
Header 6.1 and 6.2 - Add the word "active" in the requirement and move "electronic" adjective. One or more method(s) for determining <i>active</i> vendor <i>electronic</i> remote access where such access has been established in Section 3.		
Likes 0		
Dislikes 0		



Response	
Thank you for your comments. The SDT	made clarifying changes to the current draft.
Daniel Mason - Portland General Electr	ric Co 6
Answer	No
Document Name	
Comment	
PGE supports the survey response prov	rided by EEI.
Likes 0	
Dislikes 0	
Response	
Thank you, please see our response to I	EEI.
Roger Fradenburgh - Roger Fradenburg	ch On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh
Answer	No
Document Name	
Comment	
devices (including Cyber Assets) that pro CIP-003 Sections 6.1, 6.2 and elsewhere	n the phrase, "electronic vendor remote access." The only kind of remote access to electronic esently exists is electronic. In addition, NST believes the remote access terms the SDT has used in e should be consistent with the language in CIP-005, which addresses "vendor remote access," not isistent use of terms enables Responsible Entities with assets other than low imp act to develop ering impact levels.
Dislikes 0	



Response

Thank you for your comment. We understand the premise you are stipulating, however we have had comments as to whether remote access might also include the insertion of a thumb drive and dial up access into a system. The SDT made clarifying changes to both the standard language and the TR. The SDT added the word "electronic" to ensure that dial up connectivity or other non-electronic access, which could be considered remote by some, was not included in the requirements of this standard. Additionally, we have received comments regarding the use of the same terms as those in CIP-005, because it is believed the definition of the term used in CIP-005 is broader than the intent of the SAR and NERC in requiring the development of this standard.

Russell Noble - Cowlitz County PUD - 3		
Answer	No	
Document Name		
Comment		
Cowlitz PUD supports the comments submitted by Utility Services Inc.		
Likes 0		
Dislikes 0		
Response		
Thank you, please see our response to Utility Services, Inc.		
Ryan Olson - Portland General Electric Co 5, Group Name PGE Group 2		
Answer	No	
Document Name		
Comment		
PGE supports the survey response provided by EEI.		
Likes 0		

Dislikes 0		
Response		
Thank you, please see our response to EEI.		
Jamie Monette - Allete - Minnesota Power, Inc 1		
Answer	No	
Document Name		
Comment		
Minnesota Power is in agreement with Edison Electric Institute's (EEI) comments. Draft 1 of Attachment 1 Section 6 included the clarifying language "(including interactive and system-to-system access)" which was removed from Draft 2, making it unclear what forms of access are in scope. Additionally, the term "vendor" is an undefined term and should be clarified in the NERC Glossary of Terms.		
Likes 0		
Dislikes 0		
Response		
Thank you, please see our response to EEI.		
Alison Mackellar - Constellation - 5		
Answer	No	
Document Name		
Comment		
Constellation has elected to align with Exelon in response to this question. Exelon doesn't agree that it's necessarily clear so can't agree that its widely understood. The term 'Remote' can mean different things…a vendor thats internal/on site, physically remote externally to the site versus remote to the company, or a Verizon wireless card… or is it up to the Registered Entity to define it?		

Likes 0		
Dislikes 0		
Response		
Thank you, please see our response to Exelon.		
Kimberly Turco - Constellation - 6		
Answer	Νο	
Document Name		
Comment		
Exelon doesn't agree that it's necessarily clear so can't agree that its widely understood. The term 'Remote' can mean differ ent thingsa vendor thats internal/on site, physically remote externally to the site versus remote to the company, or a Verizon wireless card or is it up to the Registered Entity to define it? Likes 0		
Dislikes 0		
Response		
Thank you, please see our response to Exelon.		
Kinte Whitehead - Exelon - 3		
Answer	Νο	
Document Name		
Comment		



Exelon does not agree that it's necessarily clear so can't agree that its widely understood. The term 'Remote' can mean different things...a vendor thats internal/on site, physically remote externally to the site versus remote to the company, or a Verizon wireless card... or is it up to the Registered Entity to define it?

Dislikes 0 a base of the spectrum of the spect		
Response Image: Comment. The drafting team has provided more information on "remote" in the TR. Daniel Gacek - Exelon - 1 No Answer No Document Name Image: Comment Exelon does not agree that it's necessarily clear so can't agree that its widely understood. The term 'Remote' can mean different thingsa vendor thats internal/on site, physically remote externally to the site versus remote to the company, or a Verizon wireless card or is it up to the Registered Entity to define it? Likes 0 Dislikes 0 Response Image: Comment. The drafting team has provided more information on "remote" in the TR. Brian Evans-Mongeon - Utility Services, Inc 4 Answer No No Document Name No	Likes 0	
Thank you for your comment. The drafting team has provided more information on "remote" in the TR. Daniel Gacek - Exelon - 1 Answer No Document Name Comment Exelon does not agree that it's necessarily clear so can't agree that its widely understood. The term 'Remote' can mean different thingsa vendor thats internal/on site, physically remote externally to the site versus remote to the company, or a Verizon wireless card or is it up to the Registered Entity to define it? Likes 0 Dislikes 0 Response Thank you for your comment. The drafting team has provided more information on "remote" in the TR. Brian Evans-Mongeon - Utility Services, Inc 4 Answer No	Dislikes 0	
Daniel Gacek - Exelon - 1 Answer No Document Name Comment Exelon does not agree that it's necessarily clear so can't agree that its widely understood. The term 'Remote' can mean different thingsa vendor thats internal/on site, physically remote externally to the site versus remote to the company, or a Verizon wireless card or is it up to the Registered Entity to define it? Likes 0 Dislikes 0 Response Comment. The drafting team has provided more information on "remote" in the TR. Brian Evans-Mongeon - Utility Services, Inc 4 Answer No No	Response	
Answer No Document Name No Comment Exelon does not agree that it's necessarily clear so can't agree that its widely understood. The term 'Remote' can mean different thingsa vendor thats internal/on site, physically remote externally to the site versus remote to the company, or a Verizon wireless card or is it up to the Registered Entity to define it? Likes 0 Dislikes 0 Response Thank you for your comment. The drafting team has provided more information on "remote" in the TR. Brian Evans-Mongeon - Utility Services, Inc 4 No Document Name No	Thank you for your comment. The draft	ing team has provided more information on "remote" in the TR.
Document Name Image: Comment Exelon does not agree that it's necessarily clear so can't agree that its widely understood. The term 'Remote' can mean different thingsa Exelon does not agree that it's necessarily clear so can't agree that its widely understood. The term 'Remote' can mean different thingsa exedor thats internal/on site, physically remote externally to the site versus remote to the company, or a Verizon wireless card or is it up to the Registered Entity to define it? Likes 0 Dislikes 0 Response Image: Comment. The drafting team has provided more information on "remote" in the TR. Brian Evans-Mongeon - Utility Services, Inc 4 No Answer No Document Name No	Daniel Gacek - Exelon - 1	
Comment Exelon does not agree that it's necessarily clear so can't agree that its widely understood. The term 'Remote' can mean different thingsa vendor thats internal/on site, physically remote externally to the site versus remote to the company, or a Verizon wireless card or is it up to the Registered Entity to define it? Likes 0 Dislikes 0 Response Thank you for your comment. The drafting team has provided more information on "remote" in the TR. Brian Evans-Mongeon - Utility Services, Inc 4 Answer No Document Name	Answer	Νο
Exelon does not agree that it's necessarily clear so can't agree that its widely understood. The term 'Remote' can mean different thingsa vendor thats internal/on site, physically remote externally to the site versus remote to the company, or a Verizon wireless card or is it up to the Registered Entity to define it? Likes 0 Dislikes 0 Response Thank you for your comment. The drafting team has provided more information on "remote" in the TR. Brian Evans-Mongeon - Utility Services, Inc 4 Answer No Document Name	Document Name	
vendor thats internal/on site, physically remote externally to the site versus remote to the company, or a Verizon wireless card or is it up to the Registered Entity to define it? Likes 0 Dislikes 0 Response Thank you for your comment. The drafting team has provided more information on "remote" in the TR. Brian Evans-Mongeon - Utility Services, Inc 4 Answer No Document Name	Comment	
Response Thank you for your comment. The drafting team has provided more information on "remote" in the TR. Brian Evans-Mongeon - Utility Services, Inc 4 Answer No Document Name	Likes 0	
Thank you for your comment. The drafting team has provided more information on "remote" in the TR. Brian Evans-Mongeon - Utility Services, Inc 4 Answer No Document Name Volume (Comment Comment	Dislikes 0	
Brian Evans-Mongeon - Utility Services, Inc 4 Answer Document Name	Response	
Answer No Document Name	Thank you for your comment. The drafting team has provided more information on "remote" in the TR.	
Document Name	Brian Evans-Mongeon - Utility Services, Inc 4	
	Answer	No
Comment	Document Name	

The SDT has used the word "electronic vendor remote access" and not the term "active vendor remote access" that is used in CIP-005-7 and in the NERC Board resolution. It is unclear why this inconsistency is needed or what the difference is between the two terms.

Furthermore when reviewing the Technical Rationale behind these proposed modifications, a footnote which had previously referenced guidance on the term "vendor" and how it may be used in the current version of CIP-013 and the future versions of CIP-005, CIP-010, and CIP-013, had been removed making for more confusion on what a vendor may be in this scope. Can the SDT please provide the reasoning for removing the footnote/reference from the Technical Rationale?

Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT made these changes based on comments from a previous ballot and comment period.	
Ruida Shu - Northeast Power Coordinat	ing Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC Regional Standards Committee
Answer	No
Document Name	
Comment	
Recommend using the CIP terms "interactive remote access" and "system-to-system access" instead of introducing a new term "Electronic vendor remote access." Also, CIP-005 uses "vendor remote access." Remote access implies "electronic" so "electronic" does not need inclusion in the term.	
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT previously received comments regarding the use of the terms included in CIP-005, because they are defined in a manner which may broaden the scope of the language drafted for CIP-003. The SDT made clarifying changes to the standard as well as the TR.	



Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable		
Answer	Νο	
Document Name		
Comment		
While the term "remote access" is generally understood, it is unclear what it means in the context of this Reliability Standard. Specifically, it is unclear whether the SDT meant this to mean user remote access, machine remote access or both. For this reason, we ask that the SDT provide clearer direction within the Technical Rationale.		
Likes O		
Dislikes 0		
Response		
Thank you for your comment. The draft	ing team has provided more information on "remote" in the TR.	
Gail Elliott - International Transmission	Company Holdings Corporation - NA - Not Applicable - MRO,RF	
Answer	No	
Document Name		
Comment		
More work should be undertaken to clearly define the terms remote access and the scenarios.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The drafting team has provided more information on "remote" in the TR.		
Brian Lindsey - Entergy - 1		
Answer	Νο	



Document Name		
Comment		
Generally "interactive" remote access is also used. Interactive means not only read only or view only access. This should be a part of the standard as if I am only viewing or retrieving read only data there is no ability for the remote connection to make changes or perform actions.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The drafting team has provided more information on "remote" in the TR.		
Mike ONeil - NextEra Energy - Florida F	Power and Light Co 1	
Answer	No	
Document Name		
Comment		
Please see NEE's response to question 1 respectfully submitting updated language CIP-003 Attachment 1, Section 6 and Attachment 2, Section 6.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to NEE, question 1.		
Gerry Adamski - Cogentrix Energy Power Management, LLC - 5		
Answer	No	
Document Name		



Comment

Recommend using the CIP terms of "interactive remote access" and "system-to-system access" instead of introducing a new term "Electronic vendor remote access." Also, CIP-005 uses "vendor remote access." Remote access implies "electronic" so "electronic" does not need inclusion in the term.

Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The term "interactive remote access" was removed due to comments received during a previous posting. The SDT added the word "electronic" to ensure that dial up connectivity was not included in the requirements of this standard.	
Adrian Andreoiu - BC Hydro and Power	Authority - 1, Group Name BC Hydro
Answer	No
Document Name	
Comment	
	uestion 1 above, 'Electronic Vendor Remote Access' needs additional clarity to ensure proper the use of term 'Vendor' e.g., whether consultant using same infrastructure is considered
Likes 0	
Dislikes 0	
Response	
Thank you for your comments. The SDT added the word "electronic" to ensure that dial up connectivity was not included in the requirements of this standard. Also see the draft TR for a discussion on vendor.	
Alan Kloster - Alan Kloster On Behalf of: Allen Klassen, Evergy, 6, 1, 3, 5; Derek Brown, Evergy, 6, 1, 3, 5; Marcus Moor, Evergy, 6, 1, 3, 5; Thomas ROBBEN, Evergy, 6, 1, 3, 5; - Alan Kloster	



Answer	No	
Document Name		
Comment		
Evergy supports and incorporates the comments from the Edison Electric Institute (EEI) for questions #2.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to EEI.		
Carl Pineault - Hydro-Qu?bec Production - 1,5		
Answer	No	
Document Name		
Comment		
Recommend using the CIP terms of "interactive remote access" and "system-to-system access" instead of introducing a new term "Electronic vendor remote access." Also, CIP-005 uses "vendor remote access." Remote access implies "electronic" so "electronic" does not need inclusion in the term.		
Likes 0		
Dislikes 0		
Response		
based on comments to a previous posti	ision to remove the terms "interactive remote access" and "system to system remote access" was ing of this standard. The SDT added the word "electronic" to ensure that dial-up connectivity t included in the requirements of this standard.	
Lynn Goldstein - PNM Resources - Publ	ic Service Company of New Mexico - 1	



Answer	Νο	
Document Name		
Comment		
PNM supports EEI comments regarding the needed clarity around "remote access" referring to user remote access, machine remote access, or both.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to EEI.		
Mark Garza - FirstEnergy - FirstEnergy (Corporation - 4, Group Name FE Voter	
Answer	Νο	
Document Name		
Comment		
FirstEnergy agrees with EEI's comments: "While the term "remote access" is generally understood, it is unclear what it means in the context of this Reliability Standard. Specifically, it is unclear whether the SDT meant this to mean user remote access, machine remote access or both. For this reason, we ask that the SDT provide clearer direction within the Technical Rationale."		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to EEI.		
Clay Walker - Clay Walker On Behalf of: John Lindsey, Cleco Corporation, 6, 5, 1, 3; Maurice Paulk, Cleco Corporation, 6, 5, 1, 3; Robert Hirchak, Cleco Corporation, 6, 5, 1, 3; - Clay Walker		



Answer	No	
Document Name		
Comment		
See EEI comment.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to EEI.		
Israel Perez - Salt River Project - 1,3,5,6 - WECC		
Answer	Νο	
Document Name		
Comment		
SRP would like to see "Electronic Vendor Remote Access" as a clearly defined term. For example, is web-conferencing considered electronic vendor remote access?		
Likes 0		
Dislikes 0		
Response		
Thank you for your response. The drafting team has provided more information on "remote" in the TR.		
Devon Tremont - Taunton Municipal Lighting Plant - 1		
Answer	Νο	
Document Name		



Comment

Recommend using the CIP terms of "interactive remote access" and "system-to-system access" instead of introducing a new term "Electronic vendor remote access."

Likes 0		
Dislikes 0		
Response		
	emoved the terms "interactive remote access" and "system to system remote access" based on iod for this standard over concerns that those terms expanded the scope of the SAR for this	
Wes DeKemper - Southern Indiana Gas and Electric Co 3,5,6 - RF		
Answer	No	
Document Name		
Comment		
Southern Indiana Gas and Electric (SIGE) does not believe that this language is clear or widely used. The most widely used description of remote access is interactive remote access. If the SDT intends to include system-to-system access then that should be made clear. Remote access should be clearly defined as interactive access and system-to-system remote access. SIGE proposes re-installing the wording from Draft 1 Attachment 1 Section 6 to give additional detail to remote access, "(including interactive and system-to-system access) to low impact BES Cyber Systems."		
Likes 0		
Dislikes 0		
Response		

Thank you for your comment. The SDT removed the terms "interactive remote access" and "system to system remote access" based on feedback from a previous comment period for this standard over concerns that those terms expanded the scope of the SAR.



Lan Nguyen - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE		
Answer	Νο	
Document Name		
Comment		
Electric (CEHE) proposes re-instating th	d as including interactive and system-to-system remote access. CenterPoint Energy Houston he wording from Draft 1 Attachment 1 Section 6 to give additional detail to remote access, ystem access) to low impact BES Cyber Systems."	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT removed the terms "interactive remote access" and "system to system remote access" based on feedback from a previous comment period for this standard over concerns that those terms expanded the scope of the SAR.		
Martin Sidor - NRG - NRG Energy, Inc	6	
Answer	No	
Document Name		
Comment		
If "remote access" is going to be brought into scope for low impact sites and the intent is for it to be limited strictly to remote access conducted by vendors, then the term needs to be in alignment with the "Interactive Remote Access" definition. The manner in which Section 6 is currently written seems to imply that system-to-system communications will be included.		
Likes 0		
Dislikes 0		
Response		



	received contrary responses with the belief that using the term "Interactive Remote Access" of its formal definition in the <u>NERC Glossary of Terms</u> .
Richard Jackson - U.S. Bureau of Reclar	nation - 1,5
Answer	No
Document Name	
Comment	
Vendor - Persons, companies, or other BES Cyber Systems and related services Balancing Authority or Reliability Coord manufacturers of information systems, integrators.	dor" to the NERC Glossary of Terms and proposes the following definition: organizations with whom the Responsible Entity, or its affiliates, contracts to supply equipment for . Vendor does not include other NERC-registered entities that provide reliability services (e.g., linator services pursuant to NERC Reliability Standards). Vendor may include: (i) developers or system components, or information system services; (ii) product resellers; or (iii) sys tem
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT a	addressed the term "vendor" in the TR.
Patricia Lynch - NRG - NRG Energy, Inc.	- 5
Answer	No
Document Name	
Comment	
conducted by vendors, then the term n	nt into scope for low impact sites and the intent is for it to be limited strictly to remote access eeds to be in alignment with the "Interactive Remote Access" definition. The manner in which mply that system-to-system communications will be included.

Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT received contrary responses with the belief that using the term "Interactive Remote Access" expands the scope of the SAR because of its formal definition in the <u>NERC Glossary of Terms</u> .		
Benjamin Winslett - Georgia System O	perations Corporation - 4	
Answer	Yes	
Document Name		
Comment		
GSOC agrees that remote access is a widely used and understood term and would suggest that the language used in Attachment 1 more closely mirror the language utilized in CIP-005-7 to reduce the potential for additional confusion, ambiguity, and subjective interpretation. Please see comments provided in response to question 1 above.		
Dislikes 0		
Response		
Thank you for your comment. See our response to question 1.		
Wayne Sipperly - North American Generator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF		
Answer	Yes	
Document Name		
Comment		
The NAGF has no comments.		
Likes 0		

Dislikes 0		
Response		
Mike Magruder - Avista - Avista Corporation - 1		
Answer	Yes	
Document Name		
Comment		
The language is more clear, but does no	t really limit the effort to implement the control.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment.		
George Brown - Acciona Energy North America - 5		
Answer	Yes	
Document Name		
Comment		
Acciona Energy supports Midwest Reliability Organization's (MRO) NERC Standards Review Forum's (NSRF) comments on this question.		
Likes 0		
Dislikes 0		
Response		
Thank you, please see our response to MRO NSRF.		

Kendra Buesgens - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF		
Answer	Yes	
Document Name		
Comment		
The MRO NSRF believes that the language is properly scoped.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment.		
Joe Gatten - Xcel Energy, Inc 1,3,5,6 -	MRO,WECC	
Answer	Yes	
Document Name		
Comment		
Xcel Energy believes that the term "remote access" is commonly used to address electronic access originating from locations outside of protections established in an entities PSP and ESP.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment.		
Scott Kinney - Avista - Avista Corporation - 3		
Answer	Yes	



Document Name	
Comment	
The language is more clear, but does no	t really limit the effort to implement the control.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment.	
Glen Farmer - Avista - Avista Corporation - 5	
Answer	Yes
Document Name	
Comment	
The language is more clear, but does no	t really limit the effort to implement the control.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment.	
Ellese Murphy - Duke Energy - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF	
Answer	Yes
Document Name	
Comment	



We believe that the language is clear.	
Likes 0	
Dislikes 0	
Response	
Thank you for your comment.	
	rman On Behalf of: Chris Gowder, Florida Municipal Power Agency, 6, 5, 3, 4; Richard Agency, 6, 5, 3, 4; - LaKenya VanNorman, Group Name Florida Municipal Power Agency (FMPA)
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Dwanique Spiller - Dwanique Spiller Or	n Behalf of: Kevin Salsbury, Berkshire Hathaway - NV Energy, 5; - Dwanique Spiller
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	



Response	
James Baldwin - Lower Colorado River	Authority - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jodirah Green - ACES Power Marketing	g - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Standard Collaborations
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Teresa Krabe - Lower Colorado River A	uthority - 5, Group Name LCRA Compliance
Answer	Yes
Document Name	



Comment	
Likes 0	
Dislikes 0	
Response	
David Jendras - Ameren - Ameren Serv	ices - 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
LaTroy Brumfield - American Transmiss	sion Company, LLC - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	



Donna Wood - Tri-State G and T Association, Inc 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Larry Heckert - Alliant Energy Corporat	ion Services, Inc 4	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
patricia ireland - DTE Energy - 4		
Answer	Yes	
Document Name		
Comment		



Likes 0		
Dislikes 0		
Response		
Jennifer Bray - Arizona Electric Power	Cooperative, Inc 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Susan Sosbe - Wabash Valley Power Association - 3		
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		
Lindsay Wickizer - Berkshire Hathaway	- PacifiCorp - 6	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; Foung Mua, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; Kevin Smith, Balancing Authority of Northern California, 1; Nicole Goi, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; Nicole Looney, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; - Tim Kelley		
Answer	Yes	
Document Name		
Comment		



Likes 0		
Dislikes 0		
Response		
Jesus Sammy Alcaraz - Imperial Irrigati	on District - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Michelle Amarantos - APS - Arizona Public Service Co 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		



Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC Entity Monitoring	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Steve Toosevich - NiSource - Northern	Indiana Public Service Co 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Sean Bodkin - Dominion - Dominion Resources, Inc 3,5,6, Group Name Dominion	
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Lindsey Mannion - ReliabilityFirst - 10	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jeanne Kurzynowski - CMS Energy - Co	nsumers Energy Company - 1,3,5 - RF
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
JT Kuehne - AEP - 6	



Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Donald Lock - Talen Generation, LLC - 5	5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Andrea Jessup - Bonneville Power Administration - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		

Dislikes 0	
Response	
Mike Marshall - IDACORP - Idaho Power Company - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Chris Wagner - Santee Cooper - 1, Grou	I p Name Santee Cooper
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Brian Millard - Tennessee Valley Autho	rity - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority
Answer	Yes



Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Joseph Amato - Joseph Amato On Beha Amato	alf of: Darnez Gresham, Berkshire Hathaway Energy - MidAmerican Energy Co., 1, 3; - Joseph
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jennifer Malon - Jennifer Malon On Be MRO,WECC	half of: Don Stahl, Black Hills Corporation, 3, 5, 1, 6; - Black Hills Corporation - 1,3,5,6 -
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0		
Response		
Jay Sethi - Manitoba Hydro - 1,3,5,6 - N	Jay Sethi - Manitoba Hydro - 1,3,5,6 - MRO	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
John Galloway - John Galloway On Ber	alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway	
John Galloway - John Galloway On Beh Answer	alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway	
	alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway	
Answer	alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway	
Answer Document Name	alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway	
Answer Document Name Comment	alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway	
Answer Document Name Comment No comment.	alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway	
Answer Document Name Comment No comment. Likes 0	alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway	



3. Has the SDT clarified that Attachment 1 Section 6 only addresses vendor's access to low impact assets containing BES cyber systems from remote locations? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

Patricia Lynch - NRG - NRG Energy, Inc 5	
Answer	Νο
Document Name	
Comment	
	nderstood today with regards to the CIP standards, involves interactive electronic access across an act sites do not have an associated requirement for an Electronic Security Perimeter, so there is no a "remote location".
Likes 0	
Dislikes 0	
Response	
of those definitions apply to Lows, the t the requirement to create a network bo	realized that IRA across an ESP is the requirement for both High and Med, however, since neither eam included the language "as established within Attachment 1 Section 3.1". Section 3 for Lows is bundary for access to the low impact BES Cyber Systems from Cyber Assets outside the ass et ns. Since this requirement has been in place for some time, the SDT believes "remote access" is
Richard Jackson - U.S. Bureau of Reclamation - 1,5	
Answer	Νο
Document Name	
Comment	



Access from remote locations is not the same as remote access. A vendor could be physically on site and connect to the system through a remote connection.

Likes 0	
Dislikes 0	

Response

Thank you for your comment. The SDT included the language "as established within Attachment 1 Section 3.1". Section 3 for Lows is the requirement to create a network boundary for access to the low impact BES Cyber Systems from Cyber Assets outside the asset containing low impact BES Cyber Systems. Since this requirement has been in place for some time, the SDT believes "remote access" is any access that crosses this boundary. If a vendor is "onsite" but starts the connection process outside this boundary, this connection should be considered remote access.

Martin Sidor - NRG - NRG Energy, Inc 6	
Answer	No
Document Name	
Comment	

Remote access, as widely understood today with regards to the CIP standards, involves interactive electronic access across an Electronic Security Perimeter. Low impact sites do not have an associated requirement for an Electronic Security Perimeter, so there is no reference point for what is considered a "remote location".

Response	
Dislikes 0	
Likes O	

Thank you for your comment. The SDT realized that IRA across an ESP is the requirement for both High and Med, however, since neither of those definitions apply to Lows, the SDT included the language "as established within Attachment 1 Section 3.1". Section 3 for Lows is the requirement to create a network boundary for access to the low impact BES Cyber Systems from Cyber Assets outside the asset

containing low impact BES Cyber Syster any access that crosses this boundary.	ns. Since this requirement has been in place for some time, the SDT believes "remote access" is
Devon Tremont - Taunton Municipal Lighting Plant - 1	
Answer	No
Document Name	
Comment	
Request clarification on mixed sites. Thi	s update does not address locations with a mixture of Low and Medium Impact.
Likes 0	
Dislikes 0	
Response	
	believes adding this requirement has not impacted the way that mixed environments are currently tified as medium impact would not be applicable to Section 6.
Carl Pineault - Hydro-Qu?bec Productio	on - 1,5
Answer	No
Document Name	
Comment	
Request clarification on mixed sites. Thi controls are at the system level while Lo	s update does not address locations with a mixture of Low and Medium Impact because Medium ow controls are at the asset level.
Recommend including Low Impact BES of auditor may expand the scope to includ	Cyber Systems in the Requirement language to bound the sub-requirements. As written, the e assets that do not impact the BES.
Likes 0	
Dislikes 0	



Response

Thank you for your comment. The SDT believes that the changes made to add this requirement have not impacted the way that mixed environments are currently being addressed. The Cyber Assets identified as medium impact would not be applicable to Section 6. CIP-003 R2 as currently enforceable is applicable only to low impact BES Cyber Systems.

Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro	
Answer	No
Document Name	
Comment	
the scenarios below, how will the "Remo 1. On site, but electronically remot 2. A "vendor" at the work location of	"Remote" will need clarification and perhaps a definition in the Glossary of Terms. For example, in ote" term be used? e (i.e. has to go through EAP despite being at the station). of Responsible Entity, also electronically remote (i.e. going through EAP). and electronically remote (also going through EAP).
Response	
requirement to create a network bound containing low impact BES Cyber System any access that crosses this boundary.	ncluded the language "as established within Attachment 1 Section 3.1". Section 3 for Lows is the lary for access to the low impact BES Cyber Systems from Cyber Assets outside the asset ns. Since this requirement has been in place for some time, the SDT believes "remote access" is
Mike ONeil - NextEra Energy - Florida Power and Light Co 1	
Answer	No

Comment

Document Name



Please see NEE's response to question 1 respectfully submitting updated language CIP-003 Attachment 1, Section 6 and Attachment 2,		
Section 6.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please se	e our response to question 1.	
Wayne Sipperly - North American Gene	erator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF	
Answer	No	
Document Name		
Comment		
vendor's access in any version of the standard language. Is the SDT referencing geographic location or network topology? The standard language references inbound and outbound communications between the BES Cyber System and "Cyber Asset(s) outside the asset" (Section 3.1.i).		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The concept presented by the SDT is that "remote" is based on the criteria established with Attachment 1, Section 3.1.		
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC Regional Standards Committee		
Answer	No	
Document Name		



Comment

Request clarification on mixed sites. This update does not address locations with a mixture of Low and Medium Impact because Medium controls are at the system level while Low controls are at the asset level.

Recommend including Low Impact BES Cyber Systems in the Requirement language to bound the sub-requirements. As written, the auditor may expand the scope to include assets that do not impact the BES.

Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT b being addressed.	elieves adding this requirement has not impacted the way that mixed environments are currently
The Cyber Assets that are identified as n applicable only to low impact BES Cyber	nedium impact would not be applicable to Section 6. CIP-003 R2 as currently enforceable is Systems.
Brian Evans-Mongeon - Utility Services,	, Inc 4
Answer	No
Document Name	
Comment	
NERC Board resolution is that the contro	Board resolution is to address vendor access to low impact assets. Our understanding of the ols are to apply to low impact BES Cyber Systems at assets that have low impact BES Cyber require the 3 controls to be applied to vendor remote access and communication to more than
Likes 0	
Dislikes 0	



Response

Thank you for your comment. While we agree the resolution is focused on the risk of vendor remote access to low impact BES cyber systems, the SDT believes the draft language is consistent with other sections of Attachment 1.

Daniel Gacek - Exelon - 1		
Answer	No	
Document Name		
Comment		
Exelon ultimately believes this would require us to have an inventory list of the lows impact assets.		
Likes O		
Dislikes 0		
Response		
Thank you for your comment. The team believes the drafted language requires no more than what is required today to meet the other sections of Attachment 1.		
Kinte Whitehead - Exelon - 3		
Answer	No	
Document Name		
Comment		
Exelon believe that ultimately, this would require us to have an inventory list of the lows impact assets.		
Likes 0		
Dislikes 0		
Response		

Thank you for your comment. The team believes the drafted language requires no more than what is required today to meet the other sections of Attachment 1.		
Kimberly Turco - Constellation - 6		
Answer	No	
Document Name		
Comment		
	nunications" needs additional explanation. Recommend adding text in bold for clarity. In sections active" electronic vendor remote access and in 6.3 add "where such access has been establ ished	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT added language about "access being established under Section 3.1" to the parent so it applies to the subparts of Section 6.		
Alison Mackellar - Constellation - 5		
Answer	No	
Document Name		
Comment		
	nunications" needs additional explanation. Recommend adding text in bold for clarity. In se ctions active" electronic vendor remote access and in 6.3 add "where such access has been established	
Likes O		
Dislikes 0		



Response

Thank you for your comment.	The SDT added language about '	"access being established under Section 3.1"	to the parent so it applies to
the subparts of Section 6.			

Russell Noble - Cowlitz County PUD - 3		
Answer	No	
Document Name		
Comment		
Cowlitz PUD supports the comments su	bmitted by Utility Services Inc.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please se	e our response to Utility Services, Inc.	
Pamela Hunter - Southern Company - S	Southern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company	
Answer	Νο	
Document Name		
Comment		
	n. It doesn't scope this new term to communications "as established in Section 3" as the others bad of a term and wide open to many interpretations of the definition meaning.	
Likes 0		
Dislikes 0		
Response		

Thank you for your comment. The SDT adjusted the language to help better clarify this term.



Deanna Carlson - Cowlitz County PUD - 5		
Answer	Νο	
Document Name		
Comment		
Cowlitz PUD supports the comments su	bmitted by Utility Services Inc.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please se	e our response to Utility Services, Inc.	
Ellese Murphy - Duke Energy - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF		
Answer	Yes	
Document Name		
Comment		
Yes, the SDT has clarified the scope.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment.		
Wes DeKemper - Southern Indiana Gas and Electric Co 3,5,6 - RF		
Answer	Yes	
Document Name		



Comment	
No comment	
Likes 0	
Dislikes 0	
Response	
Clay Walker - Clay Walker On Behalf of Hirchak, Cleco Corporation, 6, 5, 1, 3; -	: John Lindsey, Cleco Corporation, 6, 5, 1, 3; Maurice Paulk, Cleco Corporation, 6, 5, 1, 3; Robert Clay Walker
Answer	Yes
Document Name	
Comment	
See EEI comment.	
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Please see our response to EEI.	
Joe Gatten - Xcel Energy, Inc 1,3,5,6 - MRO,WECC	
Answer	Yes
Document Name	
Comment	



Xcel Energy belives the scope is clear.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment.		
Alan Kloster - Alan Kloster On Behalf of: Allen Klassen, Evergy, 6, 1, 3, 5; Derek Brown, Evergy, 6, 1, 3, 5; Marcus Moor, Evergy, 6, 1, 3, 5; Thomas ROBBEN, Evergy, 6, 1, 3, 5; - Alan Kloster		
Answer	Yes	
Document Name		
Comment		
Evergy supports and incorporates the comments from the Edison Electric Institute (EEI) for questions #3.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to EEI.		
Kendra Buesgens - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF		
Answer	Yes	
Document Name		
Comment		
The MRO NSRF believes that the language is properly scoped.		

Likes 0		
Dislikes 0		
Response		
Thank you for your comment.		
George Brown - Acciona Energy North America - 5		
Answer	Yes	
Document Name		
Comment		
Acciona Energy supports Midwest Reliability Organization's (MRO) NERC Standards Review Forum's (NSRF) comments on this question.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please se	e our response to MRO NSRF.	
Brian Lindsey - Entergy - 1		
Answer	Yes	
Document Name		
Comment		
No Comment		
Likes 0		
Dislikes 0		
Response		



Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable		
Yes		
Attachment 1, Section 6 is clear but offers some suggested edits for SDT consideration. (See our		
e our response to question 1.		
Jamie Monette - Allete - Minnesota Power, Inc 1		
Yes		
Comment		
Edison Electric Institute's (EEI) comments.		
e our response to EEI.		
Ryan Olson - Portland General Electric Co 5, Group Name PGE Group 2		



Answer	Yes	
Document Name		
Comment		
PGE supports the survey response prov	PGE supports the survey response provided by EEI.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please se	e our response to EEI.	
Roger Fradenburgh - Roger Fradenburg	h On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh	
Answer	Yes	
Document Name		
Comment		
Although NST agrees Section 6 applies only to vendor remote access, it is our opinion that a malicious code detection requirement should not be limited to only vendor remote connections.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The NERC Board Resolution, and the subsequent approved SAR, focused the drafting team's work on vendor communications. It is outside the scope of the SAR to expand on that at this time.		
Daniel Mason - Portland General Electric Co 6		
Answer	Yes	
Document Name		



Comment		
PGE supports the survey response prov	rided by EEI.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please se	e our response to EEI.	
Jay Sethi - Manitoba Hydro - 1,3,5,6 - N	/RO	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Jennifer Malon - Jennifer Malon On Be MRO,WECC	half of: Don Stahl, Black Hills Corporation, 3, 5, 1, 6; - Black Hills Corporation - 1,3,5,6 -	
Answer	Yes	
Document Name		
Comment		
Likes 0		



Dislikes 0		
Response		
Joseph Amato - Joseph Amato On Beha Amato	alf of: Darnez Gresham, Berkshire Hathaway Energy - MidAmerican Energy Co., 1, 3; - Joseph	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Brian Millard - Tennessee Valley Authority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Chris Wagner - Santee Cooper - 1, Group Name Santee Cooper		



Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mike Marshall - IDACORP - Idaho Power Company - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Andrea Jessup - Bonneville Power Administration - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		



Dislikes 0			
Response			
Lan Nguyen - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE			
Answer	Yes		
Document Name			
Comment			
Likes 0			
Dislikes 0			
Response			
Donald Lock - Talen Generation, LLC - 5	Donald Lock - Talen Generation, LLC - 5		
Answer	Yes		
Document Name			
Comment			
Likes 0			
Dislikes 0			
Response			
JT Kuehne - AEP - 6			
Answer	Yes		



Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jeanne Kurzynowski - CMS Energy - Co	nsumers Energy Company - 1,3,5 - RF
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Lindsey Mannion - ReliabilityFirst - 10	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	



Response		
Sean Bodkin - Dominion - Dominion Resources, Inc 3,5,6, Group Name Dominion		
Answer	Yes	
Document Name		
Comment		
	· · · · · · · · · · · · · · · · · · ·	
Likes 0		
Dislikes 0		
Response		
Steve Toosevich - NiSource - Northern	Indiana Public Service Co 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Steven Rueckert - Western Electricity C	Coordinating Council - 10, Group Name WECC Entity Monitoring	
Answer	Yes	
Document Name		



Comment		
Likes 0		
Dislikes 0		
Response		
Michelle Amarantos - APS - Arizona Pu	blic Service Co 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Glen Farmer - Avista - Avista Corporation - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		



Jesus Sammy Alcaraz - Imperial	Irrigation District - 1
Answer	Yes
Document Name	
Comment	
Likes O	
Dislikes 0	
Response	
Municipal Utility District, 3, 5, 6,	lf of: Charles Norton, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; Foung Mua, Sacramento , 4, 1; Kevin Smith, Balancing Authority of Northern California, 1; Nicole Goi, Sacramento Municipal le Looney, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; - Tim Kelley
Answer	Yes
Document Name	
Comment	
Likes O	
Dislikes 0	
Response	
Lindsay Wickizer - Berkshire Hat	:haway - PacifiCorp - 6
Answer	Yes
Document Name	



Comment		
Likes 0		
Dislikes 0		
Response		
Israel Perez - Salt River Project - 1,3,5,6	5 - WECC	
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		



Susan Sosbe - Wabash Valley Power As	sociation - 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Scott Kinney - Avista - Avista Corporation - 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Jennifer Bray - Arizona Electric Power Cooperative, Inc 1		
Answer	Yes	
Document Name		
Comment		

Likes 0		
Dislikes 0		
Response		
Lynn Goldstein - PNM Resources - Pub	lic Service Company of New Mexico - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
patricia ireland - DTE Energy - 4		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		



Larry Heckert - Alliant Energy Corporation Services, Inc 4		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Donna Wood - Tri-State G and T Association, Inc 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
LaTroy Brumfield - American Transmission Company, LLC - 1		
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Gerry Adamski - Cogentrix Energy Power Management, LLC - 5	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
David Jendras - Ameren - Ameren Servi	ices - 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mike Magruder - Avista - Avista Corpor	ration - 1



Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Gail Elliott - International Transmission	Company Holdings Corporation - NA - Not Applicable - MRO,RF	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Teresa Krabe - Lower Colorado River Authority - 5, Group Name LCRA Compliance		
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 Standard Collaborations		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
James Baldwin - Lower Colorado River	Authority - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Dwanique Spiller - Dwanique Spiller O	n Behalf of: Kevin Salsbury, Berkshire Hathaway - NV Energy, 5; - Dwanique Spiller	
Answer	Yes	



Comment	
perations Corporation - 4	
Yes	
rman On Behalf of: Chris Gowder, Florida Municipal Power Agency, 6, 5, 3, 4; Richard Agency, 6, 5, 3, 4; - LaKenya VanNorman, Group Name Florida Municipal Power Agency (FMPA)	
Yes	

Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy (Corporation - 4, Group Name FE Voter
Answer	
Document Name	
Comment	
Vendor remote access needs to be clear	r to convey remote access only
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT r	made updates to the draft standard to clarify.
John Galloway - John Galloway On Beh	alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway
Answer	
Document Name	
Comment	
No comment.	
Likes 0	
Dislikes 0	
Response	



4. Do you believe the language in Attachment 1 Section 6 limits the scope to low impact BES cyber systems? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

Deanna Carlson - Cowlitz County PUD - 5	
Answer	No
Document Name	
Comment	
Cowlitz PUD supports the comments su	bmitted by Utility Services Inc.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Please se	e our response to Utility Services, Inc.
Pamela Hunter - Southern Company - S	Southern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company
Answer	No
Document Name	
Comment	
Section 3 Electronic Access Controls evi written. The intent of 6.3 should be add	ave a tighter bounded scoping to avoid the widest possible interpretation at audit. You can't go to dence and show you are detecting things on all identified LERC and fully prove 6.3 as it is currently led as a requirement to Section 3.
Likes 0	
Dislikes 0	



Response

Thank you for your comment. The SDT made modifications to the proposed language in Section 6.3 to more closely tie it to the scope of
Sections 3.1.

Daniel Mason - Portland General Electric Co 6	
Answer	Νο
Document Name	
Comment	
PGE supports the survey response prov	ided by EEI.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Please see our response to EEI.	
Russell Noble - Cowlitz County PUD - 3	
Answer	No
Document Name	
Comment	
Cowlitz PUD supports the comments submitted by Utility Services Inc.	
Cowlitz PUD supports the comments su	bmitted by Utility Services Inc.
Cowlitz PUD supports the comments su Likes 0	bmitted by Utility Services Inc.
	bmitted by Utility Services Inc.
Likes 0	bmitted by Utility Services Inc.



Ryan Olson - Portland General Electric Co 5, Group Name PGE Group 2		
Answer	Νο	
Document Name		
Comment		
PGE supports the survey response prov	ided by EEI.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to EEI.		
Alison Mackellar - Constellation - 5		
Answer	Νο	
Document Name		
Comment		
Constellation has elected to align with Exelon in response to this question. Exelons interpretation of the proposed standard views that this opens up access to 'any' areas that has a low.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to Exelon.		
Kimberly Turco - Constellation - 6		



Answer	No	
Document Name		
Comment		
Constellation has elected to align with Exelon in response to this question. Exelons interpretation of the proposed standard views that this opens up access to 'any' areas that has a low.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please se	e our response to Exelon.	
Kinte Whitehead - Exelon - 3		
Answer	No	
Document Name		
Comment		
Exelons interpretation of the proposed standard views that this opens up access to 'any' areas that contain lows.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT believes the edits made to Section 6 clarify which low impact BES Cyber assets are in scope.		
Daniel Gacek - Exelon - 1		
Answer	No	
Document Name		



Comment		
Exelons interpretation of the proposed standard views that this opens up access to 'any' areas that has a low		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT b	pelieves the edits made to Section 6 clarify which low impact BES Cyber assets are in scope.	
Brian Evans-Mongeon - Utility Services	, Inc 4	
Answer	No	
Document Name		
Comment		
The proposed language in Section 6.3 could be interpreted to include communication to people and all Cyber Assets at an asset that contains low impact BCS. The controls for active vendor remote access could also be required to be applied to all Cyber Assets at the asset and not just those that are part of a low impact BCS. We would suggest appending a statement consistent with the other two subsections of Section 6, "where such access has been established under Section 3."		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT updated the language in Section 6 so that the statement "as established under Section 3" applies to all parts of Section 6.		
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC Regional Standards Committee		
Answer	No	



Document Name	
Comment	
Request clarification on mixed sites. This update does not address locations with a mixture of Low and Medium Impact because Medium controls are at the system level while Low controls are at the asset level. Recommend including Low Impact BES Cyber Systems in the Requirement language to bound the sub-requirements. As written, the auditor may expand the scope to include assets that do not impact the BES.	
Likes 0	
Dislikes 0	
Response	
	believes adding this requirement has not impacted the way that mixed environments are currently d as medium impact would not be applicable to Section 6. CIP -003 R2 as currently enforceable is r Systems.
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable	
Answer	No
Document Name	
Comment	
EEI disagrees that the language in Attachment 1, Section 6 clearly limits the scope to low impact BES cyber systems. While we agree with the changes made to Section 6, subparts 6.1 and 6.2; the proposed language in subpart 6.3 is not sufficiently narrow. (See our response to question 1 above.)	
Likes 0	
Dislikes 0	
Response	



Thank you for your comment. Please see our response to EEI, question 1.	
James Baldwin - Lower Colorado River Authority - 1	
Answer	No
Document Name	
Comment	
LCRA believes that the current wording to be implemented at the asset level.	makes it unclear that only low impact BCS is applicable. Additionally, it is unclear if controls have
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT b	pelieves the edits made to Section 6 clarify which low impact BES Cyber assets are in scope.
Teresa Krabe - Lower Colorado River Authority - 5, Group Name LCRA Compliance	
Answer	No
Document Name	
Comment	
LCRA believes that the current wording be implemented at the asset level.	makes it clear that only low impact BCS is applicable. Additionally, it is unclear if controls have to
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT believes the edits made to Section 6 clarify which low impact BES Cyber assets are in scope.	
Gail Elliott - International Transmission Company Holdings Corporation - NA - Not Applicable - MRO, RF	



Answer	Νο
Document Name	
Comment	
much more work is needed to sufficien	tly scope the low impact assets which will be considered in scope.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT b	pelieves the edits made to Section 6 clarify which low impact BES Cyber assets are in scope.
Brian Lindsey - Entergy - 1	
Answer	Νο
Document Name	
Comment	
Clarity is needed for when low impacts systems exist in conjunction with medium impact systems located at Medium BES Assets/Facilities. I.E. situations where there is a medium impact BES Asset/Facility that also contains low impact systems.	
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT believes adding this requirement has not impacted the way that mixed environments are currently being addressed. Cyber Assets identified as medium impact would not be applicable to Section 6. CIP-003 R2 as currently enforceable is applicable only to low impact BES Cyber Systems.	
Mike ONeil - NextEra Energy - Florida Power and Light Co 1	
Answer	No
applicable only to low impact BES Cyber Systems. Mike ONeil - NextEra Energy - Florida Power and Light Co 1	



Document Name	
Comment	
Please see NEE's response to question 1 Section 6.	respectfully submitting updated language CIP-003 Attachment 1, Section 6 and Attachment 2,
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Please se	e response to question 1.
Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro	
Answer	No
Document Name	
Comment	
applies to 'Low Impact BCS' is not very c	m impact BCS if they are not at Control Centers. Why and how the Requirement in Section 6.3 lear from the language used. The Section 6.3 does offer possible mitigation of the risks i.e., emote acces's however this is even more stringent on Low Impact BCS in comparison to CIP -005-5 or removing Section 6.3 completely.
Likes 0	
Dislikes 0	
Response	
	updated the language in Section 6 so that the statement "as established under Section 3.1" applies ures against malicious communications being applied to Low Impact BCS and not all Mediums is



Alan Kloster - Alan Kloster On Behalf of: Allen Klassen, Evergy, 6, 1, 3, 5; Derek Brown, Evergy, 6, 1, 3, 5; Marcus Moor, Evergy, 6, 1, 3, 5; Thomas ROBBEN, Evergy, 6, 1, 3, 5; - Alan Kloster		
Answer	No	
Document Name		
Comment		
Evergy supports and incorporates the co	omments from the Edison Electric Institute (EEI) for questions #4.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please se	e the response to EEI comments.	
Carl Pineault - Hydro-Qu?bec Production	on - 1,5	
Answer	Νο	
Document Name		
Comment		
Request clarification on mixed sites. This update does not address locations with a mixture of Low and Medium Impact because Medium controls are at the asset level.		
Recommend including Low Impact BES Cyber Systems in the Requirement language to bound the sub-requirements. As written, the auditor may expand the scope to include assets that do not impact the BES.		
Likes 0		
Dislikes 0		
Response		



Thank you for your comment. The SDT believes adding this requirement has not impacted the way that mixed environments are currently being addressed. Cyber Assets identified as medium impact would not be applicable to Section 6. CIP -003 R2 as currently enforceable is applicable only to low impact BES Cyber Systems. Further information can be found in CIP -003 TR section 3, reference model 7.

Donna Wood - Tri-State G and T Association, Inc 1		
Answer	Νο	
Document Name		
Comment		
Section 6.3 should either reference Sec	tion 3.1 or somehow limit to only low impact BES cyber systems.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT u parts of Section 6.	updated language in Section 6 so that the statement "as established under Section 3" applies to all	
Joe Gatten - Xcel Energy, Inc 1,3,5,6 - MRO,WECC		
Answer	No	
Document Name		
Comment		
Xcel Energy believes additional clarity could be established by adding verbiage to 6.3 that includes "as established in secti on 3"		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment.		



Clay Walker - Clay Walker On Behalf of Hirchak, Cleco Corporation, 6, 5, 1, 3; -	: John Lindsey, Cleco Corporation, 6, 5, 1, 3; Maurice Paulk, Cleco Corporation, 6, 5, 1, 3; Robert Clay Walker	
Answer	No	
Document Name		
Comment		
See EEI comment.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please se	e our response to EEI.	
Devon Tremont - Taunton Municipal Lighting Plant - 1		
Answer	No	
Document Name		
Comment		
Request clarification on mixed sites. Thi	s update does not address locations with a mixture of Low and Medium Impact.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. If low imp medium or treated as distinct and sepa	pact assets are mixed with medium impact assets then lows need to be highwater marked as rate systems.	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC Entity Monitoring		
Answer	No	



Document Name		
Comment		
Cyber Assets that are not low impact BE	been established under Section 3' appears to bring into scope electronic vendor remot e access to S Cyber Systems, but on the same network as a low impact BES Cyber System based on the le protocol when entering or leaving the asset containing the low impact BES Cyber System(s).' 'asset containing' as a boundary.	
Please consider the following two optio	ns –	
Option 1 : Scope Section 6 specifically to	Section 3.1 i, which would more accurately scope to only low impact BES Cyber Systems.	
Section 3.1 i. between a low impact BES	Cyber System(s) and a Cyber Asset(s) outside the asset containing low impact BES Cyber System(s);	
Option 2 : Do not reference Section 3 or	any part thereof, but include the following language in Attachment 1 Section 6 –	
'between a low impact BES Cyber System(s) and a Cyber Asset(s) outside the asset containing low impact BES Cyber System(s).'		
6.1 One or more method(s) for determi Asset(s) outside	ning electronic vendor remote access between a low impact BES Cyber System(s) and a Cyber	
the asset containing low impact BES Cyb	er System(s);	
6.2 One or more method(s) for disabling electronic vendor remote access between a low impact BES Cyber System(s) and a Cyber Asset(s) outside asset containing low impact BES Cyber System(s); and		
	ng known or suspected malicious communications for both inbound and out bound vendor BES Cyber System(s) and a Cyber Asset(s) outside the asset containing low impact BES Cybe r	
Likes 0		
Dislikes 0		



Response

Thank you for your comment. The SDT updated the language in Section 6 so that the statement "as established under Section 3.1" applies to all parts of Section 6.

Sean Bodkin - Dominion - Dominion Resources, Inc 3,5,6, Group Name Dominion		
Answer	No	
Document Name		
Comment		
	sed in Section 6 as to whether it pertains to the assets containing the low impact BES Cyber be cyber systems) or the low impact BES Cyber Systems themselves.	
Likes 0		
Dislikes 0		
Response		
	updated the language in Section 6 so that the statement "as established under Section 3.1" applies currently enforceable is applicable only to low impact BES Cyber Systems.	
JT Kuehne - AEP - 6		
Answer	No	
Document Name		
Comment		
	es to the CIP-003 Standard are trending in the right direction overall, there was language struck e scope of the section. The aforementioned struck through language in Attachment 1 Section 6 is	

Section 6: Electronic Vendor Remote Access Security Controls: For assets containing low impact BES Cyber System(s) identified pursuant to CIP-002, the Responsible Entity shall implement a process to mitigate risks associated with electronic vendor remote access (including interactive and system-to-system access) to low impact BES Cyber Systems that includes:

To provide a more clear understanding that the language in this section limits scope to low impact BES Cyber Systems, AEP recommends reinstating the language above that was struck from this revision.

Likes 0	
Dislikes 0	
Response	
	updated the language in Section 6 so that the statement "as established under Section 3.1" applies e SDT determined the language previously struck was in error and it has been reinstated.
Martin Sidor - NRG - NRG Energy, Inc	6
Answer	No
Document Name	
Comment	
all vendor remote access or system-to-s and corporate business networks. The l limit the scope to only the "low impact the "assets containing low impact BES C	ow impact BES Cyber Systems" verbiage could imply that an Entity will be required to document system access to the asset. This would include BES Cyber Systems, balance of plant for non-BCSs, language in Section 6 states, "assets containing low impact BES Cyber System(s)" which does not BES Cyber Systems". If the intent is to limit the scope to "low impact BES Cyber Systems" and not Cyber Systems", then significant changes would be warranted for CIP-002/CIP-003 to ensure low d and that an Electronic Security Perimeter is established.

Likes 0	
Dislikes 0	
Response	



Thank you for your comment. The SDT updated the language in Section 6 so that the statement "as established under Section 3.1" applies to all parts of Section 6. Section 3.1 does limit scope to low impact BES Cyber Systems contained within the low impact asset.

Patricia Lynch - NRG - NRG Energy, Inc 5	
Answer	No
Document Name	
Comment	

Comments: The lack of specificity in the "access to low impact BES Cyber Systems" verbiage could imply that an Entity will be required to document all vendor remote access or system-to-system access to the asset. This would include BES Cyber Systems, balance of plant for non-BCSs, and corporate business networks. The language in Section 6 states, "assets containing low impact BES Cyber System(s)" which does not limit the scope to only the "low impact BES Cyber Systems". If the intent is to limit the scope to "low impact BES Cyber Systems" and not the "assets containing low impact BES Cyber Systems", then significant changes would be warranted for CIP-002/CIP-003 to ensure low impact BES Cyber Systems are identified and that an Electronic Security Perimeter is established.

Likes 0	
Dislikes 0	
Response	
	updated the language in Section 6 so that the statement "as established under Section 3.1" applies s limit scope to low impact BES Cyber Systems contained within the low impact asset.
Roger Fradenburgh - Roger Fradenburg	h On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh
Answer	Yes
Document Name	
Comment	

While NST agrees the Section 6 language limits the scope to low impact BCS, it is our opinion that it does not adequately define the types of in-scope vendor remote access. Do Sections 6.1 through 6.3 apply to vendor remote access via dial-up? Rather than simply use a blanket referral to Section 3 in Sections 6.1 and 6.2, Section 6 should refer to specific sub-parts of Section 3 (e.g., Section 3.1, Part i).

Likes O		
Dislikes 0		
Response		
Thank you for your comment. The SDT u to all parts of Section 6.	updated the language in Section 6 so that the statement "as established under Section 3.1" applies	
Jamie Monette - Allete - Minnesota Po	wer, Inc 1	
Answer	Yes	
Document Name		
Comment		
No additional comments		
Likes 0		
Dislikes 0		
Response		
Wayne Sipperly - North American Generator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF		
Answer	Yes	
Document Name		
Comment		



The NAGF has no comments.		
Likes 0		
Dislikes 0		
Response		
George Brown - Acciona Energy North	America - 5	
Answer	Yes	
Document Name		
Comment		
Acciona Energy supports Midwest Reliability Organization's (MRO) NERC Standards Review Forum's (NSRF) comments on this question.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to MRO NSRF.		
Kendra Buesgens - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF		
Answer	Yes	
Document Name		
Comment		
The MRO NSRF believes that the language is properly scoped.		
Likes 0		
Dislikes 0		



Response		
Thanks for your support.		
Wes DeKemper - Southern Indiana Gas	and Electric Co 3,5,6 - RF	
Answer	Yes	
Document Name		
Comment		
No comment		
Likes 0		
Dislikes 0		
Response		
Ellese Murphy - Duke Energy - 1,3,5,6 -	MRO,WECC,Texas RE,SERC,RF	
Answer	Yes	
Document Name		
Comment		
Yes, the SDT has made the scope clear.		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
	rman On Behalf of: Chris Gowder, Florida Municipal Power Agency, 6, 5, 3, 4; Richard Agency, 6, 5, 3, 4; - LaKenya VanNorman, Group Name Florida Municipal Power Agency (FMPA)	



Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Benjamin Winslett - Georgia System O	perations Corporation - 4	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Dwanique Spiller - Dwanique Spiller Or	n Behalf of: Kevin Salsbury, Berkshire Hathaway - NV Energy, 5; - Dwanique Spiller	
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 Standard Collaborations		
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		
David Jendras - Ameren - Ameren Services - 3		
Answer	Yes	



Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gerry Adamski - Cogentrix Energy Pow	er Management, LLC - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
LaTroy Brumfield - American Transmission Company, LLC - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	



Response		
Larry Heckert - Alliant Energy Corporation Services, Inc 4		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
patricia ireland - DTE Energy - 4		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Lynn Goldstein - PNM Resources - Public Service Company of New Mexico - 1		
Answer	Yes	
Document Name		



Comment		
Likes 0		
Dislikes 0		
Response		
Jennifer Bray - Arizona Electric Power	Cooperative, Inc 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Scott Kinney - Avista - Avista Corporation - 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		



Susan Sosbe - Wabash Valley Power As	ssociation - 3	
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		
Israel Perez - Salt River Project - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Lindsay Wickizer - Berkshire Hathaway	- PacifiCorp - 6
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Municipal Utility District, 3, 5, 6, 4, 1; K	narles Norton, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; Foung Mua, Sacramento Tevin Smith, Balancing Authority of Northern California, 1; Nicole Goi, Sacramento Municipal ey, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; - Tim Kelley
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		
Glen Farmer - Avista - Avista Corporation - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Michelle Amarantos - APS - Arizona Public Service Co 5		
Answer	Yes	
Document Name		
Comment		

Likes 0		
Dislikes 0		
Response		
Steve Toosevich - NiSource - Northern Indiana Public Service Co 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Lindsey Mannion - ReliabilityFirst - 10		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		



Jeanne Kurzynowski - CMS Energy - Consumers Energy Company - 1,3,5 - RF		
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		
Lan Nguyen - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE		
Answer	Yes	
Document Name		
Comment		

Likes 0		
Dislikes 0		
Response		
Andrea Jessup - Bonneville Power Administration - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mike Marshall - IDACORP - Idaho Powe	er Company - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Chris Wagner - Santee Cooper - 1, Group Name Santee Cooper		



Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Brian Millard - Tennessee Valley Autho	prity - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Joseph Amato - Joseph Amato On Beha Amato	alf of: Darnez Gresham, Berkshire Hathaway Energy - MidAmerican Energy Co., 1, 3; - Joseph
Answer	Yes
Document Name	
Comment	

Likes 0		
Dislikes 0		
Response		
Jennifer Malon - Jennifer Malon On Behalf of: Don Stahl, Black Hills Corporation, 3, 5, 1, 6; - Black Hills Corporation - 1,3,5,6 - MRO,WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Richard Jackson - U.S. Bureau of Reclamation - 1,5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		



Jay Sethi - Manitoba Hydro - 1,3,5,6 - MRO	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
John Galloway - John Galloway On Be	half of: Michael Puscas, ISO New England, Inc., 2; - John Galloway
Answer	
Document Name	
Comment	
No comment.	
Likes 0	
Dislikes 0	
Response	



5. Do the examples in Attachment 2 Section 6 support your understanding of what is required in Attachment 1 Section 6? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

Patricia Lynch - NRG - NRG Energy, Inc 5	
Answer	No
Document Name	
Comment	

Comments: Most of the suggested methods of achieving compliance go beyond the current requirements for low impact sites. Also, most of these methods require uniquely identified systems or assets, which is currently not required for low impact sites. If the intent of these proposed methods is to create a set of requirements similar to those for Medium Impact BES Cyber Systems, then the recommendation would be to eliminate CIP-003, R2 and incorporate low impact sites throughout the rest of the CIP standards, as appropriate, under the applicable systems column(s).

Likes 0	

Dislikes 0

Response

Thank you for your comment. The SDT believes implementation of the suggested methods can be applied at the system level and wouldn't require identification of individual Cyber Assets or Cyber Asset lists. The SDT does not believe the SAR allows this team to incorporate low impact sites throughout the rest of the CIP standards, as appropriate, under the applicable systems column(s). Additionally, as currently structured, entities with low impact only are only subject to CIP-002 and CIP-003.

Jay Sethi - Manitoba Hydro - 1,3,5,6 - MRO	
Answer	No
Document Name	
Comment: Thank you	

The examples provided support what is required in Attachment 1 Section 6. Clarification in the language used is suggested, along with an additional example for vendor machine to machine remote access:

Electronic Vendor Remote Access Security Controls: Examples of evidence showing the implementation of the process for Section 6 may include, but are not limited to:

1. For Section 6.1, documentation AND EVIDENCE OF IMPLEMENTATION showing:

DOCUMENTED steps to preauthorize access ALONG WITH AUTHORIZATION RECORDS

CONFIGURATION OF alerts generated by vendor log on;

PROCEDURES FOR THE USE OF VENDOR session monitoring AND SESSION MONITORING LOGS;

Security Information Management logging alerts; - **REDUNDANT TO #1, CAN BE REMOVED**

DOCUMENTED STEPS AND LOGS FOR time-of-need session initiation;

DOCUMENTED STEPS AND LOGS FOR VENDOR REMOTE ACCESS session recording;

DOCUMENTATION AND CONFIGURATION OF system logs SHOWING VENDOR REMOTE ACCESS CONNECTIONS

DOCUMENTATION OF ELECTRONIC ACCESS CONTROL RULES PERMITTING INBOUND VENDOR MACHINE TO MACHINE COMMUNICATION; or

I other operational, procedural, or technical controls.

For Section 6.2, documentation showing **THE PROCESS FOR**:

I disabling vendor remote access user or system accounts;

I disabling inbound and/or outbound hardware or software ports, services, or access permissions on applications, firewall, IDS/IPS, router, switch, VPN, Remote Desktop, remote control, or other hardware or software used for providing active vendor remote access;

I disabling communications protocols (s	such as IP) used for systems which establish and/or maintain active vendor remote access;		
Removing physical layer connectivity	(e.g., disconnect an Ethernet cable, power down equipment);		
I administrative control documentation	listing the methods, steps, or systems used to disable active vendor remote access; or		
I other operational, procedural, or tech	nical controls.		
For Section 6.3, documentation showing implementation of:			
Pirewall policies IMPLEMENTING MAL	ICIOUS TRAFFIC INSPECTION;		
Intrusion Detection System (IDS)/Intru	usion Prevention System (IPS);		
I Virtual Private Network (VPN) hosts IN	I Virtual Private Network (VPN) hosts IMPLEMENTING CONNECTION INSPECTION;		
Imanual log reviews; or			
Other operational, procedural, or tech	nical controls.		
Likes 0			
Dislikes 0			
Response			
Thank you for your comment. The SDT i	ncluded examples of evidence in Attachment 2.		
Martin Sidor - NRG - NRG Energy, Inc 6			
Answer	Νο		
Document Name			
Comment			
Most of the suggested methods of achie	eving compliance go beyond the current requirements for low impact sites. Also, most of these		

methods require uniquely identified systems or assets, which is currently not required for low impact sites. If the intent of these



proposed methods is to create a set of requirements similar to those for Medium Impact BES Cyber Systems, then the recommendation would be to eliminate CIP-003, R2 and incorporate low impact sites throughout the rest of the CIP standards, as appropriate, under the applicable systems column(s).

Likes O		
Dislikes 0		
Response		
Thank you for your comment. The SDT believes implementation of the suggested methods can be applied at the system level and wouldn't require identification of individual Cyber Assets or Cyber Asset lists. The SDT does not believe the SAR allows for this team to incorporate low impact sites throughout the rest of the CIP standards, as appropriate, under the applicable systems column(s). Additionally, as currently structured, entities with low impact only are only subject to CIP-002 and CIP-003.		
Jesus Sammy Alcaraz - Imperial Irrigation District - 1		
Answer	No	
Document Name		
Comment		
Not clear if VPN connections establishe IDS/IPS.	d with support vendors fully adheres to requirement or additional steps are required s uch as an	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. All connections established through Attachment 1 Section 3.1 are in scope for Section 6.		
Devon Tremont - Taunton Municipal Lighting Plant - 1		
Answer	No	
Document Name		



Comment

Request the Measures (Attachment 2) use language consistent with the Requirements (Attachment 1). Attachment 2, 6.2 includes a bullet – "administrative control documentation listing the methods, steps, or systems used to disable active vendor remote access." Attachment 1, Section 6 does not say "active vendor remote access." Next that bullet is inconsistent with the first Attachment, 6.2 bullet – "disabling vendor remote access user or system accounts."

Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT listed in Attachment 2 is not a compre	reviewed Attachment 2 and made clarifying changes. The SDT asserts the examples of evidence nensive list.
Carl Pineault - Hydro-Qu?bec Product	on - 1,5
Answer	No
Document Name	
Comment	
 – "administrative control documentati 1, Section 6 does not say "active vendor vendor remote access user or system a Request consistency or clarification be 	use language consistent with the Requirements (Attachment 1). Attachment 2, 6.2 includes a bullet on listing the methods, steps, or systems used to disable active vendor remote access." Attachment or remote access." Next that bullet is inconsistent with the first Attachment, 6.2 bull et – "disabling ccounts." tween CIP-003 and CIP-005. CIP-003 Attachment 1, Section 6 and Attachment 2, Section 6 use CIP-005, Part 2.5 Requirement – "Have one or more method(s) to disable active vendor remote

Likes 0

Dislikes 0		
Response		
Thank you for your comment. The SDT r listed in Attachment 2 is not a compreh	eviewed Attachment 2 and made clarifying changes. The SDT asserts the examples of evidence ensive list.	
Gerry Adamski - Cogentrix Energy Power Management, LLC - 5		
Answer	Νο	
Document Name		
Comment		
- "administrative control documentatio	use language consistent with the Requirements (Attachment 1). Attachment 2, 6.2 includes a bullet on listing the methods, steps, or systems used to disable active vendor remote access." Attachment or remote access." Next that bullet is inconsistent with the first Attachme nt, 6.2 bullet – "disabling accounts."	
Response		
Thank you for your comment. The SDT reviewed Attachment 2 and made clarifying changes. The SDT asserts the examples of evidence listed in Attachment 2 is not a comprehensive list.		
Brian Lindsey - Entergy - 1		
Answer	Νο	
Document Name		
Comment		



Additional ephasis should be put on Programmatic non technical methods of allowance to clarify that processes can be leverage rather than purely technical methods.

Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT r listed in Attachment 2 is not a compreh	reviewed Attachment 2 and made clarifying changes. The SDT asserts the examples of evidence ensive list.
Ruida Shu - Northeast Power Coordina	ting Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC Regional Standards Committee
Answer	No
Document Name	
Comment	
	use language consistent with the Requirements (Attachment 1). Attachment 2, 6.2 includes a bullet

1, Section 6 does not say "active vendor remote access." Next, that bullet is inconsistent with the first Attachment, 6.2 bullet – "disabling vendor remote access user or system accounts."

Request consistency or clarification between CIP-003 and CIP-005. CIP-003 Attachment 1, Section 6 and Attachment 2, Section 6 use different language than the proposed CIP-005, Part 2.5 Requirement – "Have one or more method(s) to disable active vendor remote access (including IRA and system-to-system remote access)."

Likes 0	
Dislikes 0	
Response	



Thank you for your comment. The SDT r listed in Attachment 2 is not a compreh	reviewed Attachment 2 and made clarifying changes. The SDT asserts the examples of evidence ensive list.	
Daniel Gacek - Exelon - 1		
Answer	Νο	
Document Name		
Comment		
Firewall Policy and Virtual Private Netw	orks aren't the greatest examples of capturing whats in Attachment 1.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT r listed in Attachment 2 is not a compreh	reviewed Attachment 2 and made clarifying changes. The SDT asserts the examples of evidence ensive list.	
Kinte Whitehead - Exelon - 3		
Answer	Νο	
Document Name		
Comment		
Firewall Policy and Virtual Private Networks aren't the greatest examples of capturing whats in Attachment 1.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT r listed in Attachment 2 is not a compreh	reviewed Attachment 2 and made clarifying changes. The SDT asserts the examples of evidence ensive list.	



Kimberly Turco - Constellation - 6		
Answer	No	
Document Name		
Comment		
Constellation has elected to align with E	exelon in response to this question.	
Firewall Policy and Virtual Private Netw	orks aren't the greatest examples of capturing whats in Attachment 1.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT reviewed Attachment 2 and made clarifying changes. The SDT asserts the examples of evidence listed in Attachment 2 is not a comprehensive list.		
Alison Mackellar - Constellation - 5		
Answer	No	
Document Name		
Comment		
Constellation has elected to align with Exelon in response to this question.		
Firewall Policy and Virtual Private Networks aren't the greatest examples of capturing whats in Attachment 1.		
Likes 0		
Dislikes 0		
Response		



Thank you for your comment. The SDT i listed in Attachment 2 is not a compreh	reviewed Attachment 2 and made clarifying changes. The SDT asserts the examples of evidence Jensive list.
Deanna Carlson - Cowlitz County PUD	- 5
Answer	No
Document Name	
Comment	
Cowlitz PUD supports the comments su	bmitted by Utility Services Inc.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Please se	e our response to Utility Services, Inc.
Mike ONeil - NextEra Energy - Florida F	Power and Light Co 1
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ellese Murphy - Duke Energy - 1,3,5,6 -	MRO,WECC,Texas RE,SERC,RF
Answer	Yes



Document Name	
Comment	
Yes, the examples support our understa	anding of what is required.
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Wes DeKemper - Southern Indiana Gas and Electric Co 3,5,6 - RF	
Answer	Yes
Document Name	
Comment	
No comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC Entity Monitoring	
Answer	Yes
Document Name	
Comment	



Attachment 2 Section 6 includes multiple uses of 'vendor remote access' and 'active vendor remote access.' To ensure a consistant scope to Section 6 consider changing all to '*electronic vendor remote access*.'

disabling vendor remote access user or system accounts

disabling inbound and/or outbound hardware or software ports, services, or access permissions on applications, firewall, IDS/IPS, router, switch, VPN, Remote Desktop, remote control, or other hardware or software used for providing *active vendor remote access*

disabling communications protocols (such as IP) used for systems which establish and/or maintain *active vendor remote access*;

administrative control documentation listing the methods, steps, or systems used to disable *active vendor remote access*;

Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT r	nade clarifying changes to the draft language.
Clay Walker - Clay Walker On Behalf of Hirchak, Cleco Corporation, 6, 5, 1, 3; -	: John Lindsey, Cleco Corporation, 6, 5, 1, 3; Maurice Paulk, Cleco Corporation, 6, 5, 1, 3; Robert Clay Walker
Answer	Yes
Document Name	
Comment	
See EEI comment.	
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Please se	e our response to EEI.



Joe Gatten - Xcel Energy, Inc 1,3,5,6 - MRO,WECC	
Answer	Yes
Document Name	
Comment	
Xcel Energy believes that examples in A	ttachment 2 provide clarity to what is required in demonstrating compliance with Secti on 6.
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Donna Wood - Tri-State G and T Association, Inc 1	
Answer	Yes
Document Name	
Comment	
Tri-State mostly agrees however, the ex	ample of Steps to Preauthorize is confusing and too open-ended.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT r listed in Attachment 2 is not a compreh	reviewed Attachment 2 and made clarifying changes. The SDT asserts the examples of evidence ensive list.
Alan Kloster - Alan Kloster On Behalf of: Allen Klassen, Evergy, 6, 1, 3, 5; Derek Brown, Evergy, 6, 1, 3, 5; Marcus Moor, Evergy, 6, 1, 3, 5; Thomas ROBBEN, Evergy, 6, 1, 3, 5; - Alan Kloster	
Answer	Yes



Document Name	
Comment	
Evergy supports and incorporates the co	omments from the Edison Electric Institute (EEI) for questions #5.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Please se	e our response to EEI, question 5.
Kendra Buesgens - MRO - 1,2,3,4,5,6 - I	MRO, Group Name MRO NSRF
Answer	Yes
Document Name	
Comment	
The MRO NSRF believes that the examp	le are clear.
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
George Brown - Acciona Energy North America - 5	
Answer	Yes
Document Name	
Comment	



Acciona Energy supports Midwest Reliability Organization's (MRO) NERC Standards Review Forum's (NSRF) comments on this question.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please se	e our response to MRO NSRF.	
Wayne Sipperly - North American Gen	erator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF	
Answer	Yes	
Document Name		
Comment		
The NAGF has no comments.		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
Mark Gray - Edison Electric Institute - N	NA - Not Applicable - NA - Not Applicable	
Answer	Yes	
Document Name		
Comment		
EEI agrees that Attachment 2, Section 6	examples support what is required under Attachment 1, Section 6.	
Likes 0		

Dislikes 0		
Response		
Thank you for your support.		
Benjamin Winslett - Georgia System O	perations Corporation - 4	
Answer	Yes	
Document Name		
Comment		
clearly indicate the time frame and inte	Section 6.1 be revised to more closely mirror the language of CIP-005-7, R2.4, which would more nt/activities to which the requirement and documentation should be focused.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT is attempting to make the language risk-based and believes as it is currently drafted allows entities to draft their program in a way that meets their unique set up in regards to vendor remote access, timeframes, and configuration.		
Brian Evans-Mongeon - Utility Services, Inc 4		
Answer	Yes	
Document Name		
Comment		
The examples listed for Section 6.2 include controls for disabling and controls for terminating remote access. In addition, these examples use the terms "vendor remote access" and "active vendor remote access" but do not use the "electronic vendor remote access" term used in Attachment 1. While we do not think the term "electronic vendor remote access" should be used at all, there should be consistency throughout the document and preferably, consistency throughout the CIP Standards.		
Likes 0		

Dislikes 0	
Response	
Thank you for your comment. The SDT i listed in Attachment 2 is not a compreh	reviewed Attachment 2 and made clarifying changes. The SDT asserts the examples of evidence ensive list.
Jamie Monette - Allete - Minnesota Po	wer, Inc 1
Answer	Yes
Document Name	
Comment	
No additional comments	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Ryan Olson - Portland General Electric	Co 5, Group Name PGE Group 2
Answer	Yes
Document Name	
Comment	
PGE supports the survey response prov	rided by EEI.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Please se	e our response to EEI.



Roger Fradenburgh - Roger Fradenburgh On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh		
Answer	Yes	
Document Name		
Comment		
NST has no comment.		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
Daniel Mason - Portland General Electric Co 6		
Answer	Yes	
Document Name		
Comment		
PGE supports the survey response provided by EEI.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to EEI.		
Richard Jackson - U.S. Bureau of Reclamation - 1,5		
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Jennifer Malon - Jennifer Malon On Be MRO,WECC	half of: Don Stahl, Black Hills Corporation, 3, 5, 1, 6; - Black Hills Corporation - 1,3,5,6 -
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Joseph Amato - Joseph Amato On Beha Amato	alf of: Darnez Gresham, Berkshire Hathaway Energy - MidAmerican Energy Co., 1, 3; - Joseph
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	



Thank you for your support.		
Brian Millard - Tennessee Valley Authority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
Chris Wagner - Santee Cooper - 1, Group Name Santee Cooper		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
Mike Marshall - IDACORP - Idaho Power Company - 1		
Answer	Yes	
Document Name		
Comment		

Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
Andrea Jessup - Bonneville Power Adm	inistration - 1,3,5,6 - WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
Lan Nguyen - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		



Donald Lock - Talen Generation, LLC - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
JT Kuehne - AEP - 6		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
Jeanne Kurzynowski - CMS Energy - Consumers Energy Company - 1,3,5 - RF		
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Lindsey Mannion - ReliabilityFirst - 10	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Sean Bodkin - Dominion - Dominion Re	esources, Inc 3,5,6, Group Name Dominion
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Steve Toosevich - NiSource - Northern	Indiana Public Service Co 1



Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Michelle Amarantos - APS - Arizona Public Service Co 5	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Glen Farmer - Avista - Avista Corporation - 5	
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0		
Response		
Thank you for your support.		
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; Foung Mua, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; Kevin Smith, Balancing Authority of Northern California, 1; Nicole Goi, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; Nicole Looney, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; - Tim Kelley		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
Lindsay Wickizer - Berkshire Hathaway - PacifiCorp - 6		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
Israel Perez - Salt River Project - 1,3,5,6 - WECC		



Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
Rachel Coyne - Texas Reliability Entity, Inc 10		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
Susan Sosbe - Wabash Valley Power Association - 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		

Dislikes 0		
Response		
Thank you for your support.		
Scott Kinney - Avista - Avista Corporation - 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
Jennifer Bray - Arizona Electric Power Cooperative, Inc 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
Lynn Goldstein - PNM Resources - Public Service Company of New Mexico - 1		
Answer	Yes	



Document Name		
Comment		
Thank you for your support.		
Likes 0		
Dislikes 0		
Response		
patricia ireland - DTE Energy - 4		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
Larry Heckert - Alliant Energy Corporation Services, Inc 4		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		



Response	
Thank you for your support.	
LaTroy Brumfield - American Transmission Company, LLC - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Adrian Andreoiu - BC Hydro and Power	r Authority - 1, Group Name BC Hydro
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
David Jendras - Ameren - Ameren Serv	ices - 3
Answer	Yes
Document Name	



Comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
Mike Magruder - Avista - Avista Corpor	ration - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
Gail Elliott - International Transmission Company Holdings Corporation - NA - Not Applicable - MRO,RF		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		



Thank you for your support.		
Teresa Krabe - Lower Colorado River A	uthority - 5, Group Name LCRA Compliance	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Standard Collaborations		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Thank you for your support.		
James Baldwin - Lower Colorado River Authority - 1		
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Dwanique Spiller - Dwanique Spiller Or	n Behalf of: Kevin Salsbury, Berkshire Hathaway - NV Energy, 5; - Dwanique Spiller
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
	rman On Behalf of: Chris Gowder, Florida Municipal Power Agency, 6, 5, 3, 4; Richard Agency, 6, 5, 3, 4; - LaKenya VanNorman, Group Name Florida Municipal Power Agency (FMPA)
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	



Thank you for your support.	
Russell Noble - Cowlitz County PUD - 3	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Pamela Hunter - Southern Company - S	Southern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
John Galloway - John Galloway On Ber	nalf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway
Answer	
Document Name	
Comment	



No comment.	
Likes 0	
Dislikes 0	
Response	



6. The SDT proposes that the modifications in CIP-003-X meet the NERC Board resolution in a cost effective manner. Do you agree? If you do not agree, or if you agree but have suggestions for improvement to enable more cost effective approaches, please provide your recommendation and, if appropriate, technical or procedural justification.

Roger Fradenburgh - Roger Fradenburgh On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh	
Answer	Νο
Document Name	
Comment	

NST believes that a considerable amount of research would be needed before many respondents would be able to provide a wellinformed answer to this question. We note the December 2019 "Supply Chain Risk Assessment" report states, "More than 99% of the responders (to a survey question about costs and benefits) agreed with the draft response that it was premature for CIP-013 registered entities to determine or estimate costs or benefits associated with the implementation of the standard..." That said, NST belie ves the cost to implement the proposed requirements could be significant, depending on how a give n Responsible Entity has addressed Electronic Access Controls requirements in CIP-003-8, Attachment 1, Section 3 and on the number of facilities where controls may need to be applied.

Likes 0	
Dislikes 0	
Response	
to draft their program in a way that me	s attempting to make the language risk-based and believes as it is currently drafted allows entities ets their unique set up in regards to vendor remote access, timeframes, and configuration.
Russell Noble - Cowlitz County PUD - 3	
Answer	No
Document Name	
Comment	



Cowlitz PUD supports the comments submitted by Utility Services Inc.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please se	e our response to Utility Services, Inc.	
Jamie Monette - Allete - Minnesota Po	wer, Inc 1	
Answer	Νο	
Document Name		
Comment		
Until additional clarity is provided on the scope and intent of the proposed modifications, the overall cost is difficult to ascertain.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT believes the proposed draft clarifies the scope and intent of the standard modifications.		
Alison Mackellar - Constellation - 5		
Answer	Νο	
Document Name		
Comment		
Constellation has elected to align with Exelon in response to this question. Registered Entities could incur significant costs implementing considering the Low Cyber Asset inventory included.		

Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to Exelon.		
Kimberly Turco - Constellation - 6		
Answer	Νο	
Document Name		
Comment		
Constellation has elected to align with Exelon in response to this question. Registered Entities could incur significant costs implementing considering the Low Cyber Asset inventory included.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to Exelon.		
Kinte Whitehead - Exelon - 3		
Answer	Νο	
Document Name		
Comment		
Registered Entities would incur significant costs implementing, considering the Low asset inventory included in the scope.		
Likes 0		
Dislikes 0		



Response

Thank you for your comment. The SDT is attempting to make the language risk-based and believes as it is currently drafted allows entities to draft their program in a way that meets their unique set up in regards to vendor remote access, timeframes and configuration.

Daniel Gacek - Exelon - 1	
Answer	No
Document Name	
Comment	
Registered Entities would incur significa	ant costs implementing, considering the Low asset inventory included in the scope.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT is attempting to make the language risk-based and believes as it is currently drafted allows entities to draft their program in a way that meets their unique set up in regards to vendor remote access, timeframes and configuration.	
Brian Evans-Mongeon - Utility Services, Inc 4	
Answer	No
Document Name	

Comment

The expansion of the requirement to detect suspicious malicious communication to systems that may not have routable communication and to systems that are not at a Control Center, as is required for high and medium impact, imposes costs that are not consistent with the risks as determined by previous Standard Drafting Teams.

Furthermore we believe the SDT is only accounting for the cost of the equipment that would be responsible for performing the tasks of Section 6. While this is one cost to consider, there may be additional resources required to allow for implementation of such technology



including but not limited to additional s visibility.	taffing, training, or other equipment that would allow a SIM/SEM/SIEM or IDS/IPS to have	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT updated language in Section 6 so that the statement "as established under Section 3.1" applies to all parts of Section 6. Please see the TR for additional information. The SDT understands the cost of implementing a new requirement includes equipment as well as cost of training or staffing employees.		
Answer	n Behalf of: Kevin Salsbury, Berkshire Hathaway - NV Energy, 5; - Dwanique Spiller No	
Document Name		
Comment		
Due to supply chain issues and other geopolitical factors, it is difficult to determine the cost effectiveness of implementing this standard.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment.		
James Baldwin - Lower Colorado River Authority - 1		
Answer	No	
Document Name		
Comment		



There is a high likelihood that new technology controls will be required to effectively meet the intent of these new requirem ents. This could pose fiscal challenges to entities.	
Likes 0	
Dislikes 0	
Response	
Thank you for your comment.	
Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Standard Collaborations	
Answer	No
Document Name	
Comment	
This is very dependent on how an entity the organization has medium or high im	r chose to implement it's low impact electronic access controls, the size of the organi zation, and if apact Control Centers.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT is attempting to make the language risk-based and believes as it is currently drafted allows entities to draft their program in a way that meets their unique set up in regards to vendor remote access, timeframes, and configuration.	
Teresa Krabe - Lower Colorado River Authority - 5, Group Name LCRA Compliance	
Answer	Νο
Document Name	
Comment	



There is a high likelihood that new technology controls will be required to effectively meet the intent of these new requirements. This could pose fiscal challenges to entities.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment.		
Gail Elliott - International Transmission	Company Holdings Corporation - NA - Not Applicable - MRO,RF	
Answer	No	
Document Name		
Comment		
Any low impact related changes are like incurred.	ly to lead to significant scope creep and potentially many underlying, unknown costs t hat will be	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT is attempting to make the language risk-based and believes as it is currently drafted allows entities to draft their program in a way that meets their unique set up in regards to vendor remote access, timeframes, and configuration. The SDT realizes there are unknowns with implementation and has increased the implementation plan to 36 months to account for this.		
Mike Magruder - Avista - Avista Corporation - 1		
Answer	No	
Document Name		
Comment		



The changes limit the scope of what traffic must be monitored, but the technology and resources needed to conduct the monitoring remains the same.	
Likes 0	
Dislikes 0	
Response	
	s attempting to make the language risk-based and believes as it is currently drafted allows entities ets their unique set up in regards to vendor remote access, timeframes, and configuration.
George Brown - Acciona Energy North America - 5	
Answer	No
Document Name	
Comment	
Acciona Energy supports Midwest Relia	bility Organization's (MRO) NERC Standards Review Forum's (NSRF) comments on this questi on.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Please see our response to MRO NSRF.	
Kendra Buesgens - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF	
Answer	Νο
Document Name	
Comment	

The MRO NSRF has concerns about the potential of ineffective costs. Due to recent supply chain issues, industry-wide staffing shortages, and other geopolitical factors the cost of implementation of the Requirements is at a much higher risk than what would normally be expected. Higher than expected costs may result in the need for a longer or adaptive implementation timeline.

Likes 0	
Dislikes 0	

Response

Thank you for your comment. The SDT is attempting to make the language risk-based and believes as it is currently drafted allows entities to draft their program in a way that meets their unique set up in regards to vendor remote access, timeframes ,and configuration. The SDT realizes there are unknowns with implementation and has increased the implementation plan to 36 months to account for this.

Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro	
Answer	No
Document Name	
Comment	

Although the cost may differ between entities, BC Hydro's assessment is that the impact may change based on understanding & clarity of terms and scope of application. As outlined in BC Hydro's comments to Question 1 above, CIP-005-5 R1.5 does not apply to Medium impact BCS if they are not at Control Centers. However, the requirement in CIP-003-X Section 6.3 applies to 'Low Impact BCS' which is even more stringent on Low Impact BCS in comparison to CIP-005-5 R1.5, where only High and Medium Impact BCS at Control Centers are in scope leaving all the other Medium impact BCS out of scope.

Implementing this requirement and adding detection methods for known or suspected malicious communications for both inbound and outbound communications concerning Low impact BCS will likely have significant cost impact.

Likes 0	
Dislikes 0 Response	

Thank you for your comment. The SDT is attempting to make the language risk-based and believes as it is currently drafted allows entities to draft their program in a way that meets their unique set up in regards to vendor remote access, timeframes, and configuration. Applying measures to mitigate against malicious communications being applied to Low Impact BCS and not all Mediums is addressed in the TR.

Alan Kloster - Alan Kloster On Behalf of: Allen Klassen, Evergy, 6, 1, 3, 5; Derek Brown, Evergy, 6, 1, 3, 5; Marcus Moor, Evergy, 6, 1, 3, 5; Thomas ROBBEN, Evergy, 6, 1, 3, 5; - Alan Kloster

Answer	No
Document Name	

Comment

Making this a requirement on all low impact BES Cyber Systems would be extremely expensive because new equipment must be installed at each low location to monitor for remote vendor access, allow for the ability to terminate sessions and detect malicious code. It would be more cost effective to create a risk-based approach that would target those low impact BES Cyber Systems that could have the most potential impact on the BES.

Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT is attempting to make the language risk-based and believes as it is currently drafted allows entities to draft their program in a way that meets their unique set up in regards to vendor remote access, timeframes, and configuration.		
Donna Wood - Tri-State G and T Association, Inc 1		
Answer	No	
Document Name		
Comment		



There are many entities that have a large amount of low impact sites that are in remote locations and struggle with limited bandwith that will be impacted. With the recent supply chain and staffing issues you will have higher than normal costs to implement these requirements.

Likes O		
Dislikes 0		
Response		
Thank you for your comment. The SDT is attempting to make the language risk-based and believes as it is currently drafted allows entities to draft their program in a way that meets their unique set up in regards to vendor remote access, timeframes, and configuration.		
Larry Heckert - Alliant Energy Corporati	on Services, Inc 4	
Answer	No	
Document Name		
Comment		
Alliant Energy supports the comments submitted by the MRO NSRF.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to MRO NSRF.		
Joe Gatten - Xcel Energy, Inc 1,3,5,6 - MRO,WECC		
Answer	No	
Document Name		
Comment		



Xcel Energy is concerned with meeting the demands of section 6 in a cost effective manner at this time. World events have created issues with supply chain and receiving the needed products to perform activities required in the standard in a timely and cost effective manner. The vast number of low impact sites as compared to high and medium sites will cause a sudden surge in demand and cause prices to rise dramatically. The standard drafting team should take these issues into consideration in their implementation plan to spread costs and demand for products across and longer span of time.

Likes 0	
Dislikes 0	
Response	
to draft their program in a way that me	s attempting to make the language risk-based and believes as it is currently drafted allows entities ets their unique set up in regards to vendor remote access, timeframes, and configuration. The nplementation and has increased the implementation plan to 36 months to account for this.
Jennifer Bray - Arizona Electric Power (Cooperative, Inc 1
Answer	No
Document Name	
Comment	
	below. It on how an entity chose to implement it's low impact electronic access controls, the size of the s medium or high impact Control Centers.
Likes 0	
Dislikes 0	
Response	
	s attempting to make the language risk-based and believes as it is currently drafted allows entities ets their unique set up in regards to vendor remote access, timeframes, and configuration.

Scott Kinney - Avista - Avista Corporation - 3		
Answer	No	
Document Name		
Comment		
The changes limit the scope of what tra remains the same.	ffic must be monitored, but the technology and resources needed to conduct the monitor ing	
Likes 0		
Dislikes 0		
Response		
	s attempting to make the language risk-based and believes as it is currently drafted allows entities ets their unique set up in regards to vendor remote access, timeframes, and configuration.	
Susan Sosbe - Wabash Valley Power As	sociation - 3	
Answer	No	
Document Name		
Comment		
This is very dependent on how an entity the organization has medium or high in	y chose to implement it's low impact electronic access controls, the size of the organi zation, and if appact Control Centers.	
Likes 0		
Dislikes 0		
Response		
	s attempting to make the language risk-based and believes as it is currently drafted allows entities ets their unique set up in regards to vendor remote access, timeframes, and configuration.	



Lindsay Wickizer - Berkshire Hathaway	- PacifiCorp - 6
Answer	No
Document Name	
Comment	
Due to supply chain issues and other ge	opolitical factors, it is difficult to determine the cost effectiveness of implementing this standard.
Likes 0	
Dislikes 0	
Response	
	s attempting to make the language risk-based and believes as it is currently drafted allows entities ets their unique set up in regards to vendor remote access, timeframes, and configuration.
Glen Farmer - Avista - Avista Corporatio	on - 5
Answer	No
Document Name	
Comment	
The changes limit the scope of what tra remains the same.	ffic must be monitored, but the technology and resources needed to conduct the monitor ing
Likes 0	
Dislikes 0	
Response	
	s attempting to make the language risk-based and believes as it is currently drafted allows entities ets their unique set up in regards to vendor remote access, timeframes, and configuration.
Steve Toosevich - NiSource - Northern	Indiana Public Service Co 1



Answer	No	
Document Name		
Comment		
Depending on the solution(s) determin necessary to achieve the goal of securin	ed by NIPSCO, cost would most likely be a factor to purchase the equipment and resources g vendor remote access.	
Likes 0		
Dislikes 0		
Response		
	s attempting to make the language risk-based and believes as it is currently drafted allows entities ets their unique set up in regards to vendor remote access, timeframes, and configuration.	
Sean Bodkin - Dominion - Dominion Resources, Inc 3,5,6, Group Name Dominion		
Answer	Νο	
Document Name		
Comment		
	where the risk exists as opposed to a broad swath of assets. The way it is written it implies that all to determine malicious communications through vendor remote access.	
Likes 0		
Dislikes 0		
Response		
	s attempting to make the language risk-based and believes as it is currently drafted allows entities ets their unique set up in regards to vendor remote access, timeframes, and configuration. The ave limited the scope of Section 6.	



Joseph Amato - Joseph Amato On Beha Amato	alf of: Darnez Gresham, Berkshire Hathaway Energy - MidAmerican Energy Co., 1, 3; - Joseph
Answer	Νο
Document Name	
Comment	
Due to supply chain issues and other ge	opolitical factors, it is difficult to determine the cost effectiveness of implementing this standard.
Likes 0	
Dislikes 0	
Response	
	s attempting to make the language risk-based and believes as it is currently drafted allows entities ets their unique set up in regards to vendor remote access, timeframes, and configuration.
Martin Sidor - NRG - NRG Energy, Inc	6
Answer	No
Document Name	
Comment	
· · ·	tly written, could be misinterpreted, which would result in a significant expansion of scope of the d prove detrimental to a cost-efffective approach. Please reference previously provided
Likes 0	
Dislikes 0	
Response	

Thank you for your comment. The SDT is attempting to make the language risk-based and believes as it is currently drafted allows entities to draft their program in a way that meets their unique set up in regards to vendor remote access, timeframes, and configuration. The team also believes that the modifications have limited the scope of Section 6.

Richard Jackson - U.S. Bureau of Reclamation - 1,5	
Answer	No
Document Name	
Comment	

Reclamation identifies that it is not cost effective to have separate standards for low impact and medium impact BES Cyber Systems, especially when the language of the requirements for each impact level is identical. Reclamation observes that Project 2016-02 will bring many changes to a majority of the CIP standards; therefore, Reclamation recommends this project may be a good avenue to incorporate low impact requirements into these standards to avoid the continuous churn of CIP-003 Attachment 1 when ultimately the requirements for low impact BES Cyber Systems will end up being identical to those for medium impact BCS.

Likes 0	
Dislikes 0	
Response	
	does not believe the SAR allows this team to incorporate low impact sites throughout the rest of or the applicable systems column(s). Additionally, as currently structured, entities with low impact P-003.
Patricia Lynch - NRG - NRG Energy, Inc.	- 5
Answer	Νο
Document Name	
Comment	



Comments: These modifications, as they are currently written, could be misinterpreted, which would result in a significant expansion of scope of the CIP-003 Attachment 1 requirements and prove detrimental to a cost-efffective approach. Please reference previously provided comments for additional detail.

Likes O	
Dislikes 0	

Response

Thank you for your comment. The SDT is attempting to make the language risk-based and believes as it is currently drafted allows entities to draft their program in a way that meets their unique set up in regards to vendor remote access, timeframes, and configuration. The team also believes the modifications have limited the scope of Section 6.

Deanna Carlson - Cowlitz County PUD - 5	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Benjamin Winslett - Georgia System O	perations Corporation - 4
Answer	Yes
Document Name	
Comment	



GSOC is concerned that compliance with Section 6, as proposed, may require a significant investment of resources, specifically that such investment is beyond what is applied to protect high or medium impact BES cyber assets despite the fact that such investment may not yield commensurate reliability and security benefits.

Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Applying addressed in the TR.	measures to mitigate against malicious communications to Low Impact BCS and not all Mediums is
Pamela Hunter - Southern Company - S	outhern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
	rman On Behalf of: Chris Gowder, Florida Municipal Power Agency, 6, 5, 3, 4; Richard Agency, 6, 5, 3, 4; - LaKenya VanNorman, Group Name Florida Municipal Power Agency (FMPA)
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Mike ONeil - NextEra Energy - Florida I	Power and Light Co 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gerry Adamski - Cogentrix Energy Pow	er Management, LLC - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
LaTroy Brumfield - American Transmiss	sion Company, LLC - 1



Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Lynn Goldstein - PNM Resources	s - Public Service Company of New Mexico - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Clay Walker - Clay Walker On Be Hirchak, Cleco Corporation, 6, 5,	ehalf of: John Lindsey, Cleco Corporation, 6, 5, 1, 3; Maurice Paulk, Cleco Corporation, 6, 5, 1, 3; Robert , 1, 3; - Clay Walker
Answer	Yes
Document Name	
Comment	

Likes 0		
Dislikes 0		
Response		
Israel Perez - Salt River Project - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; Foung Mua, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; Kevin Smith, Balancing Authority of Northern California, 1; Nicole Goi, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; Nicole Looney, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; - Tim Kelley		
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		
Michelle Amarantos - APS - Arizona Pu	blic Service Co 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC Entity Monitoring		
Answer	Yes	
Document Name		
Comment		

Lindsey Mannion - ReliabilityFirst - 10		
Yes		
Comment		
onsumers Energy Company - 1,3,5 - RF		
Yes		
Comment		
JT Kuehne - AEP - 6		



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		
Andrea Jessup - Bonneville Power Administration - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		

Dislikes 0		
Response		
Mike Marshall - IDACORP - Idaho Power Company - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Brian Millard - Tennessee Valley Autho	rity - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Jennifer Malon - Jennifer Malon On Behalf of: Don Stahl, Black Hills Corporation, 3, 5, 1, 6; - Black Hills Corporation - 1,3,5,6 - MRO,WECC		



Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Jay Sethi - Manitoba Hydro - 1,3,5,6 - MRO		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Daniel Mason - Portland General Electric Co 6		
Answer		
Document Name		
Comment		
N/A		

Likes 0		
Dislikes 0		
Response		
John Galloway - John Galloway On Beh	alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway	
Answer		
Document Name		
Comment		
No comment.		
Likes 0		
Dislikes 0		
Response		
Wayne Sipperly - North American Generator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF		
Answer		
Document Name		
Comment		
GO/GOPs will need more information to adequately assess the cost-effectiveness of the proposed approach.		
Likes 0		
Dislikes 0		
Response		



Thank you for your comment.	
Carl Pineault - Hydro-Qu?bec Production	on - 1,5
Answer	
Document Name	
Comment	
No comment	
Likes 0	
Dislikes 0	
Response	
patricia ireland - DTE Energy - 4	
Answer	
Document Name	
Comment	
We will need more information to adeq	uately assess the cost-effectiveness of the proposed approach
Likes 0	
Dislikes 0	
Response	
Thank you for your comment.	
Mark Garza - FirstEnergy - FirstEnergy	Corporation - 4, Group Name FE Voter
Answer	



Document Name	2020-03_Supply_Chain_Lows_Unofficial_Comment_Form_02252022 Presentation FINAL COMMENTS v2.docx	
Comment		
minor procedure adjustment. Based or our service territory (approximately 10	proposed modification to the CIP-003 standard can be absorbed with existing company staff and In the high volume of Low Impact Cyber System locations and varied configurations that we have in times the level of CIP Medium Impact locations), this is not a cost-effective change. Additional In monitor this level of detail to meet the requirements of CIP-003.	
Likes 0		
Dislikes 0		
Response		
	s attempting to make the language risk-based and believes as it is currently drafted allows entities ets their unique set up in regards to vendor remote access, timeframes, and configuration.	
Rachel Coyne - Texas Reliability Entity, Inc 10		
Answer		
Document Name		
Comment		
Texas RE does not have comments on t	he question.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment.		
Wes DeKemper - Southern Indiana Gas and Electric Co 3,5,6 - RF		



Answer		
Document Name		
Comment		
SIGE will not provide a response to the o	cost effectiveness of the proposed changes to CIP-003-x.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment.		
Ellese Murphy - Duke Energy - 1,3,5,6 -	MRO,WECC,Texas RE,SERC,RF	
Answer		
Document Name		
Comment		
A longer implementation timeline would offer more cost effectiveness. This would allow industry to spread their investments and capital purchases.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT i	ncreased the implementation plan to 36 months based on industry feedback.	



7. The SDT is proposing an 18-month implementation plan for Attachment 1, Section 6.1 and 6.2. The proposed implementation time frame for Attachment 1, Section 6.3 is 24-months. Would these proposed timeframes give enough time to put into place process, procedures or technology to meet the proposed language in Section 6? If you think an alternate timeframe is needed, please propose an alternate implementation plan and time period, and provide a detailed explanation of actions planned to meet the implementation deadline.

Richard Jackson - U.S. Bureau of Reclai	nation - 1,5
Answer	No
Document Name	
Comment	
	mplementation Plan. This will allow entities time to determine the effects of the revised adequate written processes, and train personnel/vendors appropriately.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT	has changed the implementation plan to 36 months.
Joseph Amato - Joseph Amato On Beha Amato	alf of: Darnez Gresham, Berkshire Hathaway Energy - MidAmerican Energy Co., 1, 3; - Joseph
Answer	Νο
Document Name	
Comment	
	6.3 to require the purchase of a significant amount of new equipment. Hundreds of Registered detection systems at the same time, and within a short deliverable window to allow time for

installation, resulting in even greater supply chain issues. Please consider adding something like the following to the implementation plan to address this potential issue: "If the Responsible Entity encounters significant supply chain issues, the Responsible Entity may request an extension from the Regional Entity." While this would need additional details developed, it would provide the industry with a ssurance that supply chain issues outside of their control would not result in non-compliance. An example of an extension might be equal to the time between placing orders for needed equipment and receiving said orders. BHE also requests NERC consider ways to work with equipment manufacturers to try to address the increased demand for this equipment.

Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT of will address any industry-wide impacts	changed the implementation plan to 36 months based on industry feedback. The ERO Enterprise as they arise.
Andrea Jessup - Bonneville Power Adm	ninistration - 1,3,5,6 - WECC
Answer	No
Document Name	
Comment	
BPA recommends that implementation monitor their Low assets but not their N Section 6.3 has no current equivalent la Control Centers. Until then, entities wi	anguage in CIP-005-8 (nor any other standards) for Medium impact BES Cyber Systems except at II be expected to detect malicious communications at certain Low assets but none of their Medium is a significant gap; BPA recommends that the drafting team delay Section 6.3 until CIP-005 is
Dislikes 0	



Response

Thank you for your comment. Applying measures to mitigate against malicious communications being applied to Low Impact BCS and not all Mediums is addressed in the TR.

Ellese Murphy - Duke Energy - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF		
Answer	No	
Document Name		
Comment		
After further consideration, we believe that a 36 month implementation timeline would be most appropriate for incorporating all the revisions in Project 2020-03. This will allow for proper installation, testing and documentation of new controls across a large inventory of sites and assets. This timeline would also be more feasible given the current supply chain challenges across industry.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT has changed the implementation plan to 36 months.		
Sean Bodkin - Dominion - Dominion Resources, Inc 3,5,6, Group Name Dominion		
Answer	No	
Document Name		
Comment		
The expansion of scope for vendor remote access monitoring and malicious communication monitoring may require new technology to be implemented within the program. The implementation for said technology for a large utility will require a longer implementation than 24 months.		
Likes 0		

Dislikes 0		
Response		
Thank you for your comment. The SDT I	has changed the implementation plan to 36 months.	
Steve Toosevich - NiSource - Northern	Indiana Public Service Co 1	
Answer	No	
Document Name		
Comment		
	or staff augmentation would have to be employed as there would be a significant amount of eployiment of solutions to the affected assets in the field.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT has changed the implementation plan to 36 months.		
Michelle Amarantos - APS - Arizona Public Service Co 5		
Answer	Νο	
Document Name		
Comment		
	ation plan would be a reasonable timeframe to implement process, procedures or technology to s 6.1 and 6.2, in addition to Section 6.3. It may be necessary to design and implement multiple	

solutions to meet the proposed language in Section 6 across the various environments in which I ow impact assets are in use. Alternatively, a single solution which could be applied across a broader group of low assets may require significant design changes to process, procedures and/or technology.

Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT I	has changed the implementation plan to 36 months.	
Jesus Sammy Alcaraz - Imperial Irrigati	on District - 1	
Answer	Νο	
Document Name		
Comment		
procurements happens within that time Likes 0	e frame to adhere compliance.	
Dislikes 0		
Response		
Thank you for your comment. The SDT has changed the implementation plan to 36 months.		
Lindsay Wickizer - Berkshire Hathaway - PacifiCorp - 6		
Answer	Νο	
Document Name		
Comment		
	6.3 to require the purchase of a significant amount of new equipment. Hundreds of Registered	

BHE expects implementation of Section 6.3 to require the purchase of a significant amount of new equipment. Hundreds of Registered Entities will all be purchasing intrusion detection systems at the same time, and within a short deliverable window to allow time for installation, resulting in even greater supply chain issues. Please consider adding something like the following to the implementation plan to address this potential issue: "If the Responsible Entity encounters significant supply chain issues, the Responsible Entity may request an extension from the Regional Entity." While this would need additional details developed, it would provide the industry with assurance that supply chain issues outside of their control would not result in non-compliance. An example of an extension might be equal to the time between placing orders for needed equipment and receiving said orders. BHE also requests NERC consider ways to work with equipment manufacturers to try to address the increased demand for this equipment.

Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT changed the implementation plan to 36 months based on industry feedback. The ERO Enterprise will address any industry-wide impacts as they arise.		
Israel Perez - Salt River Project - 1,3,5,6	- WECC	
Answer	No	
Document Name		
Comment		
A 24 month implementation is desirable due to budget, supply chain, and resources to implement solutions for SRP's Generation fleet.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT has changed the implementation plan to 36 months.		
Susan Sosbe - Wabash Valley Power Association - 3		
Answer	No	
Document Name		
Comment		

Again this is very dependent on the size of the entity, if the entity has medium or high impact BES Cyber Systems, if the entity has medium or high impact BES Cyber Systems at Control Centers, how many low impact BES Cyber Systems the entity has, and if supply chain will play a role in delaying the implementation of the controls for entities. Because of potential supply chain issues and new technology implementation, there needs to be allowances at least for Attachment 1, Section 6.3, to allow entities more time to implement, the required control, if necessary.

Document Name	
Answer	No
Jennifer Bray - Arizona Electric Power Cooperative, Inc 1	
Thank you for your comment. Please see our response to EEI.	
Response	
Dislikes 0	
Likes O	
See EEI comment.	
Comment	
Document Name	
Answer	Νο
Clay Walker - Clay Walker Hirchak, Cleco Corporatio	On Behalf of: John Lindsey, Cleco Corporation, 6, 5, 1, 3; Maurice Paulk, Cleco Corporation, 6, 5, 1, 3; Robert n, 6, 5, 1, 3; - Clay Walker
Thank you for your comme	ent. The SDT has changed the implementation plan to 36 months.
Response	
Dislikes 0	
Likes O	



Comment

AEPCO is signing on to ACES comments below.

ACES comments: Again this is very dependent on the size of the entity, if the entity has medium or high impact BES Cyber Systems, if the entity has medium or high impact BES Cyber Systems at Control Centers, how many low impact BES Cyber Systems the entity has, and if supply chain will play a role in delaying the implementation of the controls for entities. Because of potential supply chain issues and new technology implementation, there needs to be allowances at least for Attachment 1, Setion 6.3, to allow entities more time to implement, the required control, if necessary.

Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT h	has changed the implementation plan to 36 months.	
Lynn Goldstein - PNM Resources - Public Service Company of New Mexico - 1		
Answer	No	
Document Name		
Comment		
PNM supports EEI comments regarding sufficiently narrowed as mentioned in th	the implementation timeframe for 6.3 to be extended to 36-months if the scope of 6.3 is not ne comments for question 1.	
Likes O		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to EEI.		
Joe Gatten - Xcel Energy, Inc 1,3,5,6 - MRO,WECC		



Answer	Νο	
Document Name		
Comment		
Xcel Energy is concerned with meeting the implementation demands of section 6 within the proposed timeline identified in the implementation plan. World events have created issues with supply chain and obtaining the needed products and staff to perform activities required in the standard in a timely manner. The vast number of low impact sites as compared to high and medium sites will cause a sudden surge in demand and cause prices to rise dramatically. Additionally, an industry-wide staffing shortage will slow efforts to implement and maintain newly procured products. The standard drafting team should take these issues into consideration in the ir implementation plan to spread costs and demand for products and staff across and longer span of time.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT of	changed the implementation plan to 36 months.	
Larry Heckert - Alliant Energy Corporat	ion Services, Inc 4	
Answer	No	
Document Name		
Comment		
Alliant Energy supports the comments submitted by the MRO NSRF.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to MRO NSRF.		



Donna Wood - Tri-State G and T Association, Inc 1		
Answer	No	
Document Name		
Comment		
As mentioned in Question 6, many entities have large amount of low impact sites that are in remote locations and struggle with limited bandwith which makes procruement, and implementation of new hardware and software difficult. There is the other challenge of the recent supply chain and staffing issues that will also impact implementation timelines. The supply chain being taxed all at once by utilites to meet the short timeline should must be taken into consideration.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT	has changed the implementation plan to 36 months.	
Alan Kloster - Alan Kloster On Behalf of: Allen Klassen, Evergy, 6, 1, 3, 5; Derek Brown, Evergy, 6, 1, 3, 5; Marcus Moor, Evergy, 6, 1, 3, 5; Thomas ROBBEN, Evergy, 6, 1, 3, 5; - Alan Kloster		
Answer	No	
Document Name		
Comment		
Evergy supports and incorporates the comments from the Edison Electric Institute (EEI) for questions #7.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please se	e our response to EEI.	



er Authority - 1, Group Name BC Hydro
Νο
mentation plan, e.g. more than ~ 36 months considering the cost and scope impact as identified in . Once the clarity of terms and definitions is obtained as identified in comments to Quest ions 1 and to provide an alternate detailed implmentation plan to meet the target completion deadline.
has changed the implementation plan to 36 months.
MRO, Group Name MRO NSRF
Νο
ement and implementation of new software, hardware, and associated services needed to detect be particularly challenging given recent supply chain issues, industry -wide staffing shortages, and Entities across North America will all be attempting to procure needed solutions in a relatively small cit of supply with increased demand and will drive up costs. That, along with current staffing y produce scenarios that will prevent a responsible entity from meeting the effective date set in the IRO NSRF suggests the SDT align with NERC legal staff to allow for a provision in the imple mentation by for entities to request extensions based on the aforementioned factors.

Dislikes 0		
Response		
Thank you for your comment. The SDT of will address any industry-wide impacts a	changed the implementation plan to 36 months based on industry feedback. The ERO Enterprise as they arise.	
George Brown - Acciona Energy North	America - 5	
Answer	No	
Document Name		
Comment		
Acciona Energy supports Midwest Relia	bility Organization's (MRO) NERC Standards Review Forum's (NSRF) comments on this questi on.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to MRO NSRF.		
Mike ONeil - NextEra Energy - Florida F	Power and Light Co 1	
Answer	Νο	
Document Name		
Comment		
NextEra Energy requests conside	eration of a 36-month implementation period due to a large number of sites (in the hundreds)	

- NextEra Energy requests consideration of a 36-month implementation period due to a large number of sites (in the hundreds)
 requiring assessment and potentially new equipment and/or process implementation. The work must be planned and typically
 will be scheduled with planned maintenance and scheduled generation outages.
- The last few years the supply chain has adversely impacted maintenance including staffing and is expected to impact the implementation.



Entities may need to evaluate an	nd update vendor, supplier, customer and other agreements and contracts.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT I	has changed the implementation plan to 36 months.	
Gail Elliott - International Transmission	Company Holdings Corporation - NA - Not Applicable - MRO,RF	
Answer	Νο	
Document Name		
Comment		
Given the uncertainty regarding the exact scope of implementation across low impact and all vendor communications it is hard to believe the 18 months will be sufficient timing.		
Dislikes 0		
Response		
Thank you for your comment. The SDT has changed the implementation plan to 36 months.		
Brian Lindsey - Entergy - 1		
Answer	No	
Document Name		
Comment		
There could be additional needs for technology purposes which would create funding needs based on funding cycles and implementation. Strongly recommended to inceas all sections to a 24 mth implementation.		

Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT h	nas changed the implementation plan to 36 months.
Teresa Krabe - Lower Colorado River A	uthority - 5, Group Name LCRA Compliance
Answer	No
Document Name	
Comment	
	nology controls will be required to effectively meet the intent of these new requirements. es time and careful consideration. Additionally, current supply chain challenges may pose an ing.
Dislikes 0	
Response	
Thank you for your comment. The SDT h	nas changed the implementation plan to 36 months.
Jodirah Green - ACES Power Marketing	- 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Standard Collaborations
Answer	No
Document Name	
Comment	
o , ,	of the entity, if the entity has medium or high impact BES Cyber Systems, if the entity has ms at Control Centers, how many low impact BES Cyber Systems the entity has, and if supply

chain will play a role in delaying the implementation of the controls for entities. Because of potential supply chain issues and new



technology implementation, there needs to be allowances at least for Attachment 1, Setion 6.3, to allow entities more time to implement, the required control, if necessary.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT changed the implementation plan to 36 months based on industry feedback. The ERO Enterprise will address any industry-wide impacts as they arise.		
James Baldwin - Lower Colorado River	Authority - 1	
Answer	No	
Document Name		
Comment		
There is a high likelihood that new technology controls will be required to effectively meet the intent of these new requirements. Implementation of new technology takes time and careful consideration. Additionally, current supply chain challenges may pose an additional risk to effectively implementing.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT h	nas changed the implementation plan to 36 months.	
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable		
Answer	No	
Document Name		
Comment		



EEI appreciates the two-phase implementation plan for Attachment 1, Section 6 and supports the proposed 18-month implementation plan for subparts 6.1 and 6.2. However, we do not agree that an additional 6 months to complete subpart 6.3 is adequate, particularly given the current proposed language could be interpreted to mean all low impact BES Cyber System communication. Moreover, if the current language is not narrowed consistent with a risk-based approach it may be a significant challenge for some entities to complete this work in 36 months. EEI previously noted that there will be substantial work to complete 6.3 and companies are also facing significant supply chain issues/delays to secure materials necessary to implement these changes. For these reasons, the implementation plan should be at a minimum of 36 months.

Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT of will address any industry-wide impacts a	changed the implementation plan to 36 months based on industry feedback. The ERO Enterprise as they arise.
Dwanique Spiller - Dwanique Spiller Or	n Behalf of: Kevin Salsbury, Berkshire Hathaway - NV Energy, 5; - Dwanique Spiller
Answer	Νο
Document Name	
Comment	
Entities will all be purchasing intrusion of	6.3 to require the purchase of a significant amount of new equipment. Hundreds of Registered detection systems at the same time, and within a short deliverable window to allow time for pply chain issues. Please consider adding something like the following to the implementation plan

to address this potential issue: "If the Responsible Entity encounters significant supply chain issues, the Responsible Entity may request an extension from the Regional Entity." While this would need additional details developed, it would provide the industry with assurance that supply chain issues outside of their control would not result in non-compliance. An example of an extension might be equal to the time between placing orders for needed equipment and receiving said orders. NVE also requests NERC consider ways to work with equipment manufacturers to try to address the increased demand for this equipment.

Likes 0

Dialilian 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT changed the implementation plan to 36 months based on industry feedback. The ERO Enterprise will address any industry-wide impacts as they arise.		
Benjamin Winslett - Georgia System O	perations Corporation - 4	
Answer	Νο	
Document Name		
Comment		
Given the potential impact of expanded scope of Section 6.3, GSOC would respectfully request a 24 month implementation period given the current state of global supply chain lead times.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT h	nas changed the implementation plan to 36 months.	
Daniel Gacek - Exelon - 1		
Answer	No	
Document Name		
Comment		
One collective implementation time frame. Because of the significant changes proposed by the SDT, can we set the entire standard to a 36 months implementation plan.		
Likes 0		
Dislikes 0		



Response		
Thank you for your comment. The SDT h	nas changed the implementation plan to 36 months.	
Kinte Whitehead - Exelon - 3		
Answer	No	
Document Name		
Comment		
One collective implementation time fra 36 months implementation plan.	me. Because of the significant changes proposed by the SDT, can we set the entire stand ard to a	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT h	nas changed the implementation plan to 36 months.	
Kimberly Turco - Constellation - 6		
Answer	Νο	
Document Name		
Comment		
Constellation has elected to align with E One collective implementation time fra 36 months implementation plan.	exelon in response to this question. me. Because of the significant changes proposed by the SDT, can we set the entire standard to a	
Likes 0		
Dislikes 0		



Response	
Thank you for your comment. The SDT h	nas changed the implementation plan to 36 months.
Alison Mackellar - Constellation - 5	
Answer	No
Document Name	
Comment	
Constellation has elected to align with E One collective implementation time fra 36 months implementation plan.	xelon in response to this question. me. Because of the significant changes proposed by the SDT, can we set the entire standard to a
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT h	nas changed the implementation plan to 36 months.
Jamie Monette - Allete - Minnesota Po	wer, Inc 1
Answer	No
Document Name	
Comment	
Until additional clarification is provided timelines are sufficient to implement th	on the scope and intent of the proposed changes, it's unclear if the drafted implementation e requirements.
Likes 0	
Dislikes 0	



Response

Thank you for your comment. Clarifying changes have been made to the draft language and the implementation plan has been set to 3	36
months.	

Ryan Olson - Portland General Electric Co 5, Group Name PGE Group 2	
Νο	
vided by EEI.	
Thank you for your comment. Please see our response to EEI.	
Russell Noble - Cowlitz County PUD - 3	
No	
Comment	
Cowlitz PUD supports the comments submitted by the Bonneville Power Administration (BPA).	
Response	
Thank you for your comment. Please see our response to BPA.	



Roger Fradenburgh - Roger Fradenburg	Roger Fradenburgh - Roger Fradenburgh On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh	
Answer	Νο	
Document Name		
Comment		
NST believes the time required to implement the proposed requirements could be significant, depending on how a given Responsi ble Entity has addressed Electronic Access Controls requirements in CIP-003-8, Attachment 1, Section 3 and on the number of facilities where controls may need to be applied. NST recommends a 24-month implementation time frame for all of Attachment 1, Section 6 requirements.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT has changed the implementation plan to 36 months.		
Daniel Mason - Portland General Electric Co 6		
Answer	Νο	
Document Name		
Comment		
PGE supports the survey response provided by EEI.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to EEI.		
Pamela Hunter - Southern Company - Southern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company		



Answer	Νο	
Document Name		
Comment		
We would rather have one date of 24 months for the whole thing. Simpler to track and entities are going to need the time for various reasons. Some that don't have IDS capabilities at all their sites will have to order and receive and then implement a lot of equipment at a lot of sites. The 6.1 and 6.2 can be shorter for TO/TOPs that just have substations, or for those with only control centers. With the wide diversity of vendor situations out there on everything from a small solar to a string of wind turbines to a large Generation facility and all matters of variety of vendor arrangements and support, the timeframe and implementation plan is not simple. We do not want to make the assumption that 6.3 is 'hard' and needs more time and 6.1 and 6.2 are 'easier' and can be done quicker. In some cases, it might be the opposite. Whatever the maximum implementation time is, give that to everyone.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT has changed the implementation plan to 36 months.		
Deanna Carlson - Cowlitz County PUD - 5		
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Patricia Lynch - NRG - NRG Energy, Inc.	- 5	



Answer	Yes
Document Name	
Comment	
Comments: These timeframes are sufficient assuming that a significant expansion in scope isn't being proposed. Please reference previously provided comments for additional detail.	
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT I	nas made clarifying changes and set the implementation plan to 36 months.
Martin Sidor - NRG - NRG Energy, Inc	6
Answer	Yes
Document Name	
Comment	
These timeframes are sufficient assuming that a significant expansion in scope isn't being proposed. Please reference previously provided comments for additional detail.	
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT has made clarifying changes and set the implementation plan to 36 months.	
Wes DeKemper - Southern Indiana Gas and Electric Co 3,5,6 - RF	
Answer	Yes
Document Name	



Comment	
No comment	
Likes 0	
Dislikes 0	
Response	
Carl Pineault - Hydro-Qu?bec Production	on - 1,5
Answer	Yes
Document Name	
Comment	
Consider large-scale supply chain and ir chain impact?	nplementation issues. If all entities request supplies at the same time, what will be the supply
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT has changed the implementation plan to 36 months.	
David Jendras - Ameren - Ameren Services - 3	
Answer	Yes
Document Name	
Comment	



If all examples in Attachment 2 are ever required then we believe that additional time above the 18 months may be required.		
Likes 0		
Dislikes 0		
Response		
Thanks you for your comment. The SDT examples and is not a comprehensive li	has changed the implementation plan to 36 months. The examples within Attachment 2 are just st.	
Wayne Sipperly - North American Gen	erator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF	
Answer	Yes	
Document Name		
Comment		
The NAGF has no comments.		
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 Regional Standards Committee		
Answer	Yes	
Document Name		
Comment		
Consider large-scale supply chain and implementation issues. If all entities request supplies at the same time, what will be the supply chain impact?		

Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT h	nas changed the implementation plan to 36 months.	
Brian Evans-Mongeon - Utility Services	, Inc 4	
Answer	Yes	
Document Name		
Comment		
The ability for entities to apply these control may be limited by the availability of equipment and the vendors qualified to install them. The SDT should request that NERC provide information on the expected number of substations that may be required to implement these controls. It may be necessary to include an automatic extension of the time allowed for implementation, if necessary, equipment and personnel to perform the installation are not available.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT changed the implementation plan to 36 months based on industry feedback. The ERO Enterprise will address any industry-wide impacts as they arise.		
Jay Sethi - Manitoba Hydro - 1,3,5,6 - MRO		
Answer	Yes	
Document Name		
Comment		
Likes 0		



Dislikes 0		
Response		
Jennifer Malon - Jennifer Malon On Behalf of: Don Stahl, Black Hills Corporation, 3, 5, 1, 6; - Black Hills Corporation - 1,3,5,6 - MRO,WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Brian Millard - Tennessee Valley Authority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Chris Wagner - Santee Cooper - 1, Group Name Santee Cooper		



Yes		
Mike Marshall - IDACORP - Idaho Power Company - 1		
Yes		
Comment		
Response		
Lan Nguyen - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE		
Yes		
Comment		

Dislikes 0		
Response		
Donald Lock - Talen Generation, LLC - 5	5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
JT Kuehne - AEP - 6		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Jeanne Kurzynowski - CMS Energy - Consumers Energy Company - 1,3,5 - RF		
Answer	Yes	



Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Lindsey Mannion - ReliabilityFirst - 10	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC Entity Monitoring	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	



Response		
Glen Farmer - Avista - Avista Corporatio	on - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; Foung Mua, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; Kevin Smith, Balancing Authority of Northern California, 1; Nicole Goi, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; Nicole Looney, Sacramento Municipal Utility District, 3, 5, 6, 4, 1; - Tim Kelley		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Devon Tremont - Taunton Municipal Lighting Plant - 1		
Answer	Yes	



Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Scott Kinney - Avista - Avista Corporation - 3	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
patricia ireland - DTE Energy - 4	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	



Response		
ion Company, LLC - 1		
Yes		
er Management, LLC - 5		
Yes		
Response		
Mike Magruder - Avista - Avista Corporation - 1		
Yes		



Comment		
Likes 0		
Dislikes 0		
Response		
LaKenya VanNorman - LaKenya VanNorman On Behalf of: Chris Gowder, Florida Municipal Power Agency, 6, 5, 3, 4; Richard Montgomery, Florida Municipal Power Agency, 6, 5, 3, 4; - LaKenya VanNorman, Group Name Florida Municipal Power Agency (FMPA)		
Answer	Yes	
Document Name		
Comment		
	·	
Likes 0		
Dislikes 0		
Response		
Rachel Coyne - Texas Reliability Entity, Inc 10		
Answer		
Document Name		
Comment		
Texas RE does not have comments on the question.		
Likes 0		

Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy (Corporation - 4, Group Name FE Voter
Answer	
Document Name	
Comment	
	what FE believes is the spirit of the standard, we feel we could follow the propose d e feel the vagueness of the draft leaves ambiguity and would require a longer implementation
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT or changes.	changed the implementation plan to 36 months and updated the draft language with clarifying
John Galloway - John Galloway On Beh	alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway
Answer	
Document Name	
Comment	
No comment.	
Likes 0	
Dislikes 0	



Response



8. Provide any additional comments on the standard and technical rationale document for the standard drafting team to consider, if desired.

Pamela Hunter - Southern Company - Southern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company	
Answer	
Document Name	
Comment	
	em to be more stringent than what highs and mediums have to comply with today. Highs and ssions and have a method to disable remote access. That is far easier than determining w hat ound communications.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Applying all Mediums is addressed in the TR.	measures to mitigate against malicious communications being applied to Low Impact BCS and not
Daniel Mason - Portland General Electric Co 6	
Answer	
Document Name	
Comment	
N/A	
Likes 0	
Dislikes 0	



Response

Roger Fradenburgh - Roger Fradenburgh On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh	
Answer	
Document Name	

Comment

NST believes it is short-sighted to add a new requirement to CIP-003 for malicious communications detection that is limited to vendor remote access only. Advocates for this limitation seem to be ignoring the possibility a Responsible Entity's own remote computer systems could be compromised by attackers and used to deliver malware to BES Cyber Systems (BCS) at BES assets containing low impact BCS. In addition, NST believes that limiting the scope of monitoring and detecting to only vendor remote access either may not be practical or may result in sub-optimal designs that would need to be updated should monitoring and detecting requirements be expanded in the future. Given the likely time, effort, and expense associated with implementing a solution for malicious code detection (using IDS or similar technology), we think it only makes sense to require it for all remote access. NST also notes that in its recent NOPR proposing "Internal Network Security Monitoring" requirements for high and medium BES Cyber Systems, FERC indicated it is interested in the possibility of applying "INSM" requirements to low impact, as well. This suggests to us that while FERC might approve the cur rent set of proposed supply chain revisions to CIP-003, were they to be approved by industry ballot and the NERC board, they might also direct NERC to further modify CIP-003 to apply malicious communications detection requirements to any remote access that uses routable protocols outside BES assets containing low impact BCS.

Likes 0	

Dislikes 0

Response

Thank you for your comments. The SDT had several conversations about this topic with NERC compliance and legal staff. Based on these discussions and a review of the Supply Chain report, the team determined that the SAR and the NERC Board: "Resolution for Agenda Item 8.d: Supply Chain Recommendations" were focused only on supply chain risks posed through vendor electronic access. The SDT believes the drafted standard meets the current objective from the NERC BOT and SAR. While looking "forward" to future requirements and/or



potential standards that might be consi access.	dered, it is beyond this teams current scope, which is focused solely on supply chain and vendor's	
Russell Noble - Cowlitz County PUD - 3		
Answer		
Document Name		
Comment		
Cowlitz PUD supports the comments su	bmitted by Utility Services Inc.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please se	e our response to Utility Services, Inc.	
Romel Aquino - Edison International - Southern California Edison Company - 3		
Answer		
Document Name		
Comment		
See Comments submitted by the Edisor	n Electric Institute.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please se	e our response to EEI.	
Selene Willis - Edison International - So	outhern California Edison Company - 5	



Answer		
Document Name		
Comment		
See Comments submitted by the Edison	Electric Institute." with your ballot.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please se	e our response to EEI.	
Alison Mackellar - Constellation - 5		
Answer		
Document Name		
Comment		
SDT should consider defining the term "Electronic Vendor" in the NERC defined Glossary of Terms.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT modified the language to remove this term.		
Kimberly Turco - Constellation - 6		
Answer		
Document Name		
Comment		



SDT should consider defining the term "Electronic Vendor" in the NERC defined Glossary of Terms.	
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT r	modified the language to remove this term.
Kinte Whitehead - Exelon - 3	
Answer	
Document Name	
Comment	
What is meant by ' Electronic Vendor'?	Currently it's not a defined term, SDT should consider making this a NERC defined glossary term.
Dislikes 0	
Response	
	nodified the language to remove this term.
Daniel Gacek - Exelon - 1	
Answer	
Document Name	
Comment	
What is meant by 'Electronic Vendor'?	Currently it's not a defined term, SDT should consider making this a NERC defined glossary term.
Likes 0	

Dislikes 0		
Response		
Thank you for your comment. The SDT r	nodified the language to remove this term.	
Brian Evans-Mongeon - Utility Services	, Inc 4	
Answer		
Document Name		
Comment		
All proposed controls should be limited Systems.	to only low impact BES Cyber Systems as opposed to assets containing low impact BES Cyber	
The proposed control for detecting malicious communication should be limited to:		
1. Only low impact BES Cyber Systems using a routable protocol to communicate across the asset boundary and,		
2. Only Control Centers (to align with CIP-005-7 R1.5)		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT made changes to reduce the scope based on only those communications that are established through Attachment 1, Section 3.1. The SDT asserts that the SAR applies to all low impact facilities as identified in CIP-002.		
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC Regional Standards Committee		
Answer		
Document Name		
Comment		



For future reference, request redline to last approved since that shows the true SDT proposed updates.

Recommend updating R1.2.6 by removing "Electronic" from "Electronic vendor remote access security controls." The security concern is vendor remote access.

Recommend updating Attachment 1 by removing "Electronic" from "Electronic vendor" for consistency with Requirement R1.2.6

Request clarification on Attachment 1 Section 6.3. Why a Low Requirement has a larger scope than the corresponding Medium Requirement (CIP-005 R1.6) The proposed Requirement for CIP-005 R1.6 says "detecting known or suspected malicious Internet Protocol (IP) communications entering or leaving an ESP." 6.3 says "detecting known or suspected malicious communications for both inbound and outbound vendor communications." 6.3 applies to all vendor communications, not just IP. Next CIP-005 R1.6's Applicable Systems says "Medium impact BCS at Control Centers" 6.3 applies to all vendor communications, not just Control Centers.

Recommend updating Attachment 2 by removing "Electronic" from "Electronic vendor" for consistency with Requirement R1.2.6

Likes 0		
Dislikes 0		
Response		
	nade clarifying changes regarding the comment about "electronic vendor". Applying measures to ons being applied to Low Impact BCS and not all Mediums is addressed in the TR.	
John Galloway - John Galloway On Behalf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway		
Answer		
Document Name		
Comment		
No comment.		
Likes 0		
Dislikes 0		



Response		
Dwanique Spiller - Dwanique Spiller O	n Behalf of: Kevin Salsbury, Berkshire Hathaway - NV Energy, 5; - Dwanique Spiller	
Answer		
Document Name		
Comment		
The Technical Rationale document had and requests that the footnote be reins	a footnote reference to the term vendor as used in CIP-013 that was removed. NVE found it useful stated.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The TR h	as been updated.	
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable		
Answer		
Document Name		
Comment		
	e undefined term "Electronic Vendor" has been used eleven times (including within Section 6 of ant by the use of this term and if this term is to remain within this Reliability Standard, the SDT ough the Technical Rationale.	
Likes 0		
Dislikes 0		
Response		



Thank you for your comment. The SDT I	nas removed the term.
Jodirah Green - ACES Power Marketing	- 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Standard Collaborations
Answer	
Document Name	
Comment	
We would like to thank the SDT for thei	r efforts and allowing the industry to participate in the drafting process.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment.	
Wayne Sipperly - North American Gen	erator Forum - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF
Answer	
Document Name	
Comment	
The NAGF membership recommends the provided in CIP-003.	at the SDT consider providing reference architecture diagram(s) similar to previous reference model
Likes 0	
Dislikes 0	
Response	
	ect 2016-02 team is preserving the reference documents that were in the GTB of CIP-003-8 in TR s that reference section 3 still apply to this draft of the standard and any communication crossing



Teresa Krabe - Lower Colorado River Authority - 5, Group Name LCRA Compliance	
Answer	
Document Name	
Comment	
No additional comments at this time.	
Likes 0	
Dislikes 0	
Response	
Brian Lindsey - Entergy - 1	
Answer	
Document Name	
Comment	
NA	
Likes 0	
Dislikes 0	
Response	
Mike ONeil - NextEra Energy - Florida P	Power and Light Co 1
Answer	
Document Name	



Comment

- Please provide redline to last approved since that shows the true SDT proposed updates.
- Please apply NEE's response to question 1 respectfully submitting updated language CIP-003 Attachment 1, Section 6 and Attachment 2, Section 6 to the standard and technical rationale document.
- Page 4 " The SDT agreed to retain Section 3 and establish Section 6 to address vendors and low impact electronic remote access," change to "The SDT agreed to retain Section 3 and establish Section 6 to address low impact vendor electronic remote access,"
- Page 5:
- "establish and disable electronic vendor remote access." to be "establish and disable vendor electronic remote access."
- "low impact BES Cyber Systems to: (1) detect known or suspected malicious communications for both inbound and outbound communications; (2) determine when active vendor remote access sessions are initiated; and (3) disable active vendor remote access when necessary." to be "low impact BES Cyber Systems to: (1) detect known or suspected malicious communications for both inbound and outbound communications; (2) determine when active vendor electronic remote access sessions are initiated; and (3) disable active vendor electronic remote access when necessary."
- Attachment 1 Section 6 Part 6.1 Determining Vendor Electronic Remote Access
- "associated with malicious communications and electronic vendor remote access." to be "associated with malicious communications and vendor electronic remote access."
- Attachment 1 Section 6 Part 6.2 Disabling vendor electronic remote access
- Enhanced visibility into electronic vendor remote access and the ability to terminate electronic vendor remote access could mitigate such a vulnerability. The obligation in Section 6.2 requires that entities have a method to disable electronic vendor remote access." to be "Enhanced visibility into vendor electronic remote access and the ability to terminate vendor electronic remote access could mitigate such a vulnerability. The obligation in Section 6.2 requires that entities have a method to disable electronic vendor disable vendor electronic remote access."



- Page 6
- Attachment 1 Section 6 Part 6.3 Detecting known or suspected malicious communications for both inbound and outbound communications for vendor electronic remote access

Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The team	made clarifying changes to the draft language of the standard and updated the TR.	
George Brown - Acciona Energy North	America - 5	
Answer		
Document Name		
Comment		
Acciona Energy supports Midwest Reliability Organization's (MRO) NERC Standards Review Forum's (NSRF) comments on this question.		
Likes O		
Dislikes 0		
Response		
Thank you for your comment. Please see the response to MRO NSRF.		
Kendra Buesgens - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF		
Answer		
Document Name		
Comment		
The MRO NSRF would like to thank the Standard Drafting Team, NERC Staff and all other contributors for their work on this project.		

Likes 0		
Dislikes 0		
Response		
Thank you for your comment.		
Gerry Adamski - Cogentrix Energy Powe	er Management, LLC - 5	
Answer		
Document Name		
Comment		
For future reference, request redline to	last approved since that shows the true SDT proposed updates.	
Recommend updating R1.2.6 by removing "Electronic" from "Electronic vendor remote access security controls." The security con cern is vendor remote access.		
Recommend updating Attachment 1 by removing "Electronic" from "Electronic vendor" for consistency with Requirement R1.2.6		
Request clarification on Attachment 1 Section 6.3. Why a Low Requirement has a larger scope than the corresponding Medium Requirement (CIP-005 R1.6) The proposed Requirement for CIP-005 R1.6 says "detecting known or suspected malicious Internet Protocol (IP) communications entering or leaving an ESP." 6.3 says "detecting known or suspected malicious communications for both inb ound and outbound vendor communications." 6.3 applies to all vendor communications, not just IP. Next CIP-005 R1.6's Applicable Systems says "Medium impact BCS at Control Centers" 6.3 applies to all vendor communications, not just Control Centers. The low requirement may encompass email, phone, and or mail communications from vendors, because of the vague language used.		
Recommend updating Attachment 2 by removing "Electronic" from "Electronic vendor" for consistency with Requirement R1.2.6		
Likes 0		
Dislikes 0		
Response		



	nade updates to clarify the language in the standard. Applying measures to mitigate against d to Low Impact BCS and not all Mediums is addressed in the TR.	
Adrian Andreoiu - BC Hydro and Power	Authority - 1, Group Name BC Hydro	
Answer		
Document Name		
Comment		
Questions 1 to 4 above. The definitions	rd work SDT put into putting these complex changes to CIP-003-X. As identified in comments to of terms and clarity of application with some specific industry use case examples will help nd likely result in a faster and appropriate approvals of these proposed changes.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT r listed in Attachment 2 is not a comprehe	eviewed Attachment 2 and made clarifying changes. The team asserts the examples of evidence ensive list.	
Alan Kloster - Alan Kloster On Behalf of: Allen Klassen, Evergy, 6, 1, 3, 5; Derek Brown, Evergy, 6, 1, 3, 5; Marcus Moor, Evergy, 6, 1, 3, 5; Thomas ROBBEN, Evergy, 6, 1, 3, 5; - Alan Kloster		
Answer		
Document Name		
Comment		
Evergy supports and incorporates the co	omments from the Edison Electric Institute (EEI) for questions #8.	
Likes 0		
Dislikes 0		



Response		
Thank you for your comment. Please see our response to EEI.		
Carl Pineault - Hydro-Qu?bec Production - 1,5		
Answer		
Document Name		
Comment		
For future reference, request redline to	last approved since that shows the true SDT proposed updates.	
Recommend updating R1.2.6 by removing "Electronic" from "Electronic vendor remote access security controls." The security con cern is vendor remote access.		
Recommend updating Attachment 1 by	removing "Electronic" from "Electronic	
vendor" for consistency with Requirement R1.2.6		
Request clarification on Attachment 1 Section 6.3. Why a Low Requirement has a larger scope than the corresponding Medium Requirement (CIP-005 R1.6) The proposed Requirement for CIP-005 R1.6 says "detecting known or suspected malicious Internet Protocol (IP) communications entering or leaving an ESP." 6.3 says "detecting known or suspected malicious communications for both inb ound and outbound vendor communications." 6.3 applies to all vendor communications, not just IP. Next CIP-005 R1.6's Applicable Systems says "Medium impact BCS at Control Centers" 6.3 applies to all vendor communications, not just Control Centers.		
Recommend updating Attachment 2 by	removing "Electronic" from "Electronic vendor" for consistency with Requirement R1.2.6	
Likes 0		
Dislikes 0		
Response		
	nade updates to clarify the language in the standard. Applying measures to mitigate against d to Low Impact BCS and not all Mediums is addressed in the TR.	



Larry Heckert - Alliant Energy Corporation Services, Inc 4		
Answer		
Document Name		
Comment		
Alliant Energy appreciates the Standard	Drafting Team's work on this project.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment.		
Joe Gatten - Xcel Energy, Inc 1,3,5,6 - MRO,WECC		
Answer		
Document Name		
Comment		
Xcel Energy would like to thank the draf by the NERC BOT.	fting team for their diligent work and bringing forward language to address the concerns identified	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment.		
patricia ireland - DTE Energy - 4		
Answer		



Document Name		
Comment		
We remain concerned that the CIP-003 Attachment 1, Section 6.3 requirement for malicious communication places a heavier compliance burden on low impact assets than High and Medium, as deliniteated in CIP-005 (2.4 and 2.5). Simply extending the the implementation timeframe for this requirement does not address that basic inconsistency.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Applying all Mediums is addressed in the TR.	measures to mitigate against malicious communications being applied to Low Impact BCS and not	
Jennifer Bray - Arizona Electric Power (Cooperative, Inc 1	
Answer		
Document Name		
Comment		
Thank you to the SDT for their efforts and allowing AEPCO to participate in the drafting process.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment.		
Scott Kinney - Avista - Avista Corporation	on - 3	
Answer		
Document Name		



Comment

My intended vote for this ballot was negative based on the comments provided in this survey. However due to technical issues with the voting platform while casting my vote it is shown as affirmative. If possible please replace my affirmative vote with a negative vote.

Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Votes cannot be changed in the system. If you experience issues with the system in the future, please reach out 24-48 hours prior to the comment period/ballot close so we can look into it.		
Clay Walker - Clay Walker On Behalf of: John Lindsey, Cleco Corporation, 6, 5, 1, 3; Maurice Paulk, Cleco Corporation, 6, 5, 1, 3; Robert Hirchak, Cleco Corporation, 6, 5, 1, 3; - Clay Walker		
Answer		
Document Name		
Comment		
See EEI comment.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. Please see our response to EEI.		
Susan Sosbe - Wabash Valley Power Association - 3		
Answer		
Document Name		
Comment		



We would like to thank the SDT for their efforts and allowing the industry to participate in the drafting process.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment.		
Rachel Coyne - Texas Reliability Entity,	Inc 10	
Answer		
Document Name		
Comment		
 Texas RE continues to have the following additional recommendations for the SDT: Include language for (1) software integrity and authenticity, (2) information system planning and (3) vendor risk and procure ment controls, which addresses various aspects of supply chain risk management as is consistent with Reliability Standards CIP-013 and CIP-010. Include vendor multi-factor authentication (MFA). Passwords can be subjected to numerous cyber-attacks, including brute force. MFA provides an additional layer of security and protects systems should passwords become known by unauthorized users. Include controls for encrypted vendor remote access sessions, which is consistent with CIP-005 Requirement R2. 		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT believes the proposed language meets the requirement of our current SAR. If additional requirements as discussed above were included, it would extend outside the scope of the approved SAR.		
Israel Perez - Salt River Project - 1,3,5,6 - WECC		
Answer		



Document Name		
Comment		
Will inventory lists now be required for Low Impact sites? Based on the current requirements, is it safe to assume that cloud electronic access controls are acceptable for vendor remote access into low impact sites?		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT asserts that nothing that was added in Section 6 changes the scope of assets that entities were already required to create based on the others sections of Attachment 1.		
Lindsay Wickizer - Berkshire Hathaway	- PacifiCorp - 6	
Answer		
Document Name		
Comment		
The Technical Rationale document had a footnote reference to the term vendor as used in CIP-013 that was removed. BHE found it useful and requests that the footnote be reinstated.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The SDT updated the TR to reflect the changes in the current draft.		
Devon Tremont - Taunton Municipal Lighting Plant - 1		
Answer		
Document Name		



Comment

The most concerning to us is Attachment 1, Section 6.3 in which the term "detecting" known or suspected malicious communications for vendors is used. The term "detecting" is unclear to us. We are unsure if this would require continuous monitoring of the vendor's session, or if it is simply intended to at least manually review the vendor's session after the fact. Is the intent to provide constant real-time monitoring, which would be costly and time consuming?

Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The current draft language is intended to be risk-based to allow entities flexibility in defining their plans and then implementing the plan as designed.		
Jesus Sammy Alcaraz - Imperial Irrigation	on District - 1	
Answer		
Document Name		
Comment		
	PR. Additional architecture diagrams should be illustrated for a possible IDS/IPS implementation are were guidance architecture diagrams.	
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The Project 2016-02 team is preserving the reference documents that were in the GTB of CIP-003-8 in TR documents going forward. The diagrams that reference section 3 still apply to this draft of the standard and any communication crossing those boundaries are still appropriate.		
Steven Rueckert - Western Electricity C	oordinating Council - 10, Group Name WECC Entity Monitoring	



Answer		
Document Name		
Comment		
In the Technical Rational, first sentence in the foreward, consider using language consistent with Section 6. Change 'electro nic remote vendor access' to 'electronic vendor remote access.		
Likes 0		
Dislikes 0		
Response		
Thank you for your comment. The TR has been updated to reflect the current draft language.		
Wes DeKemper - Southern Indiana Gas and Electric Co 3,5,6 - RF		
Answer		
Document Name		
Comment		
No comment		
Likes 0		
Dislikes 0		
Response		
Scott Miller - Scott Miller On Behalf of: David Weekley, MEAG Power, 3, 1; Roger Brand, MEAG Power, 3, 1; - Scott Miller		
Answer		
Document Name		



Comment	
Likes 0	
Dislikes 0	
Response	
Joseph Amato - Joseph Amato On Beha Amato	lf of: Darnez Gresham, Berkshire Hathaway Energy - MidAmerican Energy Co., 1, 3; - Joseph
Answer	
Document Name	
Comment	
The Technical Rationale document had and requests that the footnote be reins	a footnote reference to the term vendor as used in CIP-013 that was removed. BHE found it useful tated.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The TR ha	as been updated to reflect the current draft language.
Richard Jackson - U.S. Bureau of Reclar	nation - 1,5
Answer	
Document Name	
Comment	



	rts to incorporate the NIST Framework into the NERC Standards. Reclamation encourages the SDT NERC standards do not duplicate requirements contained within the NIST Framework.
Likes 0	
Dislikes 0	
Response	
Thank you for your comment.	

End of Report