Comment Report

Project Name:	2019-03 Cyber Security Supply Chain Risks CIP-005-7, CIP-010-4, & CIP-013-2 (Draft 2)
Comment Period Start Date:	5/7/2020
Comment Period End Date:	6/22/2020
Associated Ballots:	2019-03 Cyber Security Supply Chain Risks CIP-005-7, CIP-010-4, & CIP-013-2 AB 2 ST

There were 75 sets of responses, including comments from approximately 183 different people from approximately 124 companies representing 10 of the Industry Segments as shown in the table on the following pages.

Questions

1. The SDT is proposing language in CIP-005-7 in the newly formed R3 to include EACMS as an applicable system to address industry concern during the initial ballot concerning the required use of Intermediate Systems and EACMS. This proposed requirement has modified language from CIP-005-6 Requirement R2.4 and R2.5 and is not a wholly new requirement from the previous version of the standard. Do you agree that this proposal makes it clearer that Intermediate Systems are not required? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

2. The SDT is proposing language in CIP-005-7 in the newly formed R3 to clarify remote session conditions. Do you agree that these changes clearly define the types of remote sessions that are covered by the standards? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

3. The SDT is proposing removing the exception language in CIP-010-4 "Applicable Systems" for PACS which stated "except as provided in Requirement R1, Part 1.6." This reverts the language in this section back to what is in CIP-010-3. Do you agree with this proposed modification? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

4. To address comments the SDT reconstructed the wording in CIP-013-2 Requirement R1, Part 1.2.6 to clarify that all types of vendorinitiated remote access needs to be considered. Do you agree that these changes clearly define the types of remote sessions that are covered by the standards? If you do not agree, please provide your recommendations and if appropriate, technical or procedural justification.

5. The SDT is proposing an increase from 12 to 18 month implementation plan in response to industry comment. Do you agree this strikes a balance between appropriate risk mitigation and giving the industry time to implement changes?

6. The SDT proposes that the modifications in CIP-005-7, CIP-010-4 and CIP-013-2 meet the FERC directives 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.

7. Provide any additional comments for the standard drafting team to consider, if desired.

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
Midcontinent	Bobbi	2	MRO,RF,SERC	ISO/RTO	Bobbi Welch	MISO	2	RF
ISO, Inc.	Welch			Council Standards	Ali Miremadi	CAISO	2	WECC
				Review Committee	Helen Lainis	IESO	2	NPCC
				2019-03 Supply Chain	Kathleen Goodman	ISO-NE	2	NPCC
				Risks_June 2020	Gregory Campoli	New York Independent System Operator	2	NPCC
					Mark Holman	PJM Interconnection, L.L.C.	2	RF
Santee	Chris	1		Santee	Rene' Free	Santee Cooper	1,3,5,6	SERC
Cooper	Wagner			Cooper	Rodger Blakely	Santee Cooper	1,3,5,6	SERC
MRO	Dana Klem	ina Klem 1,2,3,4,5,6	n 1,2,3,4,5,6 MRO MRO NSRF	MRO NSRF	Joseph DePoorter	Madison Gas & Electric	3,4,5,6	MRO
					Larry Heckert	Alliant Energy	4	MRO
					Michael Brytowski	Great River Energy	1,3,5,6	MRO
					Jodi Jensen	Western Area Power Administration	1,6	MRO
					Andy Crooks	SaskPower Corporation	1	MRO
					Bryan Sherrow	Kansas City Board of Public Utilities	1	MRO
					Bobbi Welch	Omaha Public Power District	1,3,5,6	MRO
					Jeremy Voll	Basin Electric Power Cooperative	1	MRO
					Bobbi Welch	Midcontinent ISO	2	MRO
					Douglas Webb	Kansas City Power & Light	1,3,5,6	MRO
					Fred Meyer	Algonquin Power Co.	1	MRO

					John Chang	Manitoba Hydro	1,3,6	MRO
			James Williams	Southwest Power Pool, Inc.	2	MRO		
					Jamie Monette	Minnesota Power / ALLETE	1	MRO
					Jamison Cawley	Nebraska Public Power	1,3,5	MRO
					Sing Tay	Oklahoma Gas & Electric	1,3,5,6	MRO
					Terry Harbour	MidAmerican Energy	1,3	MRO
					Troy Brumfield	American Transmission Company	1	MRO
NiSource - Dmitriy Northern Bazylyuk Indiana Public		,	NIPSCO	Joe O'Brien	NiSource - Northern Indiana Public Service Co.	6	RF	
Service Co.					Kathryn Tackett	NiSource - Northern Indiana Public Service Co.	5	RF
					Steve Toosevich	NiSource - Northern Indiana Public Service Co.	1	RF
Douglas	Douglas		MRO,SPP RE	Westar-KCPL	Doug Webb	Westar	1,3,5,6	MRO
Vebb	Webb				Doug Webb	KCP&L	1,3,5,6	MRO
Public Utility District No. 1 of Chelan	Ginette Lacasse	1	WECC	PUD #1 Chelan	Meaghan Connell	Public Utility District No. 1 of Chelan County	5	WECC
County					Joyce Gundry	Public Utility District No. 1 of Chelan County	3	WECC
					Davis Jelusich	Public Utility District No. 1 of Chelan County	6	WECC
				Ginette Lacasse	public Utility Distric No 1 of Chelan	1	WECC	
	Holly Chaney	3		SNPD Voting Members	John Martinsen	Public Utility District No. 1 of	4	WECC

Snohomish County PUD						Snohomish County		
No. 1					John Liang	Snohomish County PUD No. 1	6	WECC
					Sam Nietfeld	Public Utility District No. 1 of Snohomish County	5	WECC
					Alyssia Rhoads	Public Utility District No. 1 of Snohomish County	1	WECC
ACES Power Marketing	Jodirah Green	Applicable,RF,SERC,Texas	ACES Standard Collaborations		Hoosier Energy Rural Electric Cooperative, Inc.	1	SERC	
					Kevin Lyons	Central Iowa Power Cooperative	1	MRO
					Bill Hutchison	Southern Illinois Power Cooperative	1	SERC
					Jim Davis	East Kentucky Power Cooperative	1,3	SERC
					Scott Brame	North Carolina EMC	3,4,5	SERC
					Ryan Strom	Buckeye Power, Inc.	5	RF
					Jennifer Bray	Arizona Electric Power Cooperative, Inc.	1	WECC
					Meredith Dempsey	Brazos Electric Power Cooperative, Inc.	1,5	Texas RE
					Carl Behnke	Southern Maryland Electric Cooperative	3	RF
DTE Energy - Detroit	Karie Barczak	3		DTE Energy - DTE Electric	Adrian Raducea	DTE Energy - Detroit Edison Company	5	RF

Edison Company					Daniel Herring	DTE Energy - DTE Electric	4	RF
					Karie Barczak	DTE Energy - DTE Electric	3	RF
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
					Ann Carey	FirstEnergy - FirstEnergy Solutions	6	RF
					Mark Garza	FirstEnergy- FirstEnergy	4	RF
Duke Energy	Masuncha		Duke Energy	Laura Lee	Duke Energy	1	SERC	
	Bussey		KE		Dale Goodwine	Duke Energy	5	SERC
					Greg Cecil	Duke Energy	6	RF
					Lee Schuster	Duke Energy	3	SERC
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 Power Company	3	SERC
					William D. Shultz	Southern Company Generation	5	SERC
				Ron Carlsen	Southern Company - Southern Company Generation	6	SERC	
Eversource Energy	Quintin Lee	1		Eversource Group	Sharon Flannery	Eversource Energy	3	NPCC
					Quintin Lee	Eversource Energy	1	NPCC

Northeast Power Coordinating Council	nating Regional Standards	Regional	Guy V. Zito	Northeast Power Coordinating Council	10	NPCC	
				Randy MacDonald	New Brunswick Power	2	NPCC
				Glen Smith	Entergy Services	4	NPCC
				Alan Adamson	New York State Reliability Council	7	NPCC
				David Burke	Orange & Rockland Utilities	3	NPCC
				Michele Tondalo	UI	1	NPCC
				Helen Lainis	IESO	2	NPCC
				John Pearson	ISO-NE	2	NPCC
				David Kiguel	Independent	7	NPCC
				Paul Malozewski	Hydro One Networks, Inc.	3	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
		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	N	
					Nicolas Turcotte	Hydro-Qu?bec TransEnergie	1	N
					Chantal Mazza	Hydro Quebec	2	N
					Sean Bodkin	Dominion - Dominion Resources, Inc.	6	N
					Nurul Abser	NB Power Corporation	1	N
					Randy MacDonald	NB Power Corporation	2	NF
					Jim Grant	NY-ISO	2	N
					Quintin Lee	Eversource Energy	1	NF
					Silvia Parada Mitchell	NextEra Energy, LLC	4	NF
					Michael Ridolfino	Central Hudson Gas and Electric	1	NF
					Vijay Puran	NYSPS	6	N
					ALAN ADAMSON	New York State Reliability Council	10	N
				-	John Hasting	National Grid USA	1	N
					Michael Jones	National Grid USA	1	NF
					Sean Cavote	PSEG - Public Service Electric and Gas Co.	1	NF
					Brian Robinson	Utility Services	5	NF
Dominion - Dominion Resources,	Sean Bodkin	6	Do	ominion	Connie Lowe	Dominion - Dominion Resources, Inc.	3	N/ Ap
Inc.					Lou Oberski	Dominion - Dominion Resources, Inc.	5	N/ Aj

					Larry Nash	Dominion - Dominion Virginia Power	1	NA - Not Applicable
					Rachel Snead	Dominion - Dominion Resources, Inc.	5	NA - Not Applicable
OGE Energy - Oklahoma	Sing Tay	6	SPP RE	OKGE	Sing Tay	OGE Energy - Oklahoma	6	MRO
Gas and Electric Co.	Gas and Electric Co.				Terri Pyle	OGE Energy - Oklahoma Gas and Electric Co.	1	MRO
					Donald Hargrove	OGE Energy - Oklahoma Gas and Electric Co.	3	MRO
					Patrick Wells	OGE Energy - Oklahoma Gas and Electric Co.	5	MRO
Lower	Teresa	5		LCRA	Michael Shaw	LCRA	6	Texas RE
Colorado River	Colorado Cantwell River	antwell	Compliance	Dixie Wells	LCRA	5	Texas RE	
Authority				Teresa Cantwell	LCRA	1	Texas RE	

1. The SDT is proposing language in CIP-005-7 in the newly formed R3 to include EACMS as an applicable system to address industry concern during the initial ballot concerning the required use of Intermediate Systems and EACMS. This proposed requirement has modified language from CIP-005-6 Requirement R2.4 and R2.5 and is not a wholly new requirement from the previous version of the standard. Do you agree that this proposal makes it clearer that Intermediate Systems are not required? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

Erick Barrios - New York Power Authorit	y - 6
Answer	No
Document Name	
Comment	
Vendor remote access is part of remote acc	cess. It is not clear why these are separated.
Additional confusion caused by another SD recommend this definition change needs to	T will modify the "interactive remote access" definition. That update will happen after this update. We happen as part of this project.
More confusion from the "hall of mirrors" - i	ntermediate systems for intermediate systems. We are not advocating for this hall of mirrors.
	nguage < <active (including="" access="" access,="" as="" interactive<br="" remote="" system-to-system="" vendor="" well="">ated sessions)>> from the Requirements to the Measures</active>
For Interactive Remote Access consistency	, we expected EACMS and PACS to be added to Requirement 2, Part 2.1.
Likes 0	
Dislikes 0	
Response	
Anthony Jablonski - ReliabilityFirst - 10	
Answer	No
Document Name	
Comment	
there could be confusion that the access is	es, utilize an Intermediate System". However, by creating a new requirement specifically for vendor access "vendor" related access and R2 is not applicable. Based on the wording of this Question as context, it nove intermediate systems for vendor initiated IRA. Thus explicitly allowing direct vendor access to assets in
Likes 0	
Dislikes 0	
Response	

Dennis Sismaet - Northern California Power Agency - 6				
Answer No				
Document Name				
Comment				

This project should be canceled or at least placed on hold until the following occur:

1. DOE issues their report detailing how they will proceed with BPS Supply Chain requirements in accordance with the 2020 Presidential Executive Order. It is not prudent for NERC to continue spending inordinate amount of valued Industry stakeholders' time on this endeavor which will likely change in the near future as a result of DOE's efforts. Regardless, FERC will probably immediately order project changes anyway, even if Industry approves the proposal as is.

2. NERC provides a cost proposal, first and that it be accurate and reasonable. Future SARs should not be allowed through the Standards Committee without a cost estimate. All stakeholders need to know the estimated cost prior to SAR posting and deserve to know the cost of what they are voting on.

3. FERC levels the playing field by ordering BAs to modify their Tariffs, and compensate GO/GOPs for fixed NERC Compliance Costs. NERC's response to SAR page three Market Principle one was inaccurate. California ISO (CAISO) Market rules, and maybe other ISOs too, do not allow GOPs to recover fixed costs for unfunded FERC/NERC reliability mandates. Non-GOP Market Participants have no said obligations nor costs. This is an extremely unfair business practice especially considering the BAs/ISOs are compensated for, allowed to recover, 100% of their NERC/FERC fixed compliance costs. Additionally, this results in unfair Market competitive advantages for non-GOP generator Market Participants in the CAISO BA to the detriment, disadvantage of GOPs like NCPA.

4. Finally, future submittals/proposals should not be sent for balloting until the CIP STD not only develops proposed standard revisions, but also develop guidance and audit approach measures, that Auditors shall be required to follow, which should be balloted/commented on at the same time as the proposed standard revisions. No more, after-the-fact, Standards interruptions by FERC, NERC, and/or REs that were not approved by all Stakeholders.

Likes 0	
Dislikes 0	
Response	
Kjersti Drott - Tri-State G and T Associat	ion, Inc 1
Answer	No
Document Name	
Comment	

Tri-State recommends that CIP-005-7 R3 plane definitions be expanded, as they are brief and there is no further explanation of the planes in the Implementation Guidance or Technical Rationale. Suggest definitions similar to Cisco examples below:

1) Management plane of a system is that element that configures, monitors, and provides management, monitoring and configuration services to, all layers of the network stack and other parts of the system. Examples include protocols such as Telnet, Secure Shell (SSH), TFTP, SNMP, FTP, NTP, and other protocols used to manage the device and/or network.

2) Data plane (sometimes known as the user plane, forwarding plane, carrier plane or bearer plane) is the part of a network that carries user traffic. End-station, user-generated packets that are always forwarded by network devices to other end-station devices. From the perspective of the

network device, data plane packets always forwarding processes.	have a transit destination IP address and can be handled by normal, destination IP address-based				
Likes 0					
Dislikes 0					
Response					
Karie Barczak - DTE Energy - Detroit Edi	son Company - 3, Group Name DTE Energy - DTE Electric				
Answer	No				
Document Name					
Comment					
EACMS are outside of network boundary in available technology have required that con not be included in scope for Supply Chain n	age of an EAP or Intermediate System to disable access. By the very nature of the devices, PACS and inclusion for CIP. To now require that termination of vendor access for EACMS and PACS by definition and introls be placed on these devices that contain assets outside of NERC CIP scope. EACMS and PACS should nanagement until or unless they are required to be placed behind a Firewall and required access via an entities exposed to a wide interpretation during audit on what is an "acceptable" method for identification and				
Likes 0					
Dislikes 0					
Response					
Dana Klem - MRO - 1,2,3,4,5,6 - MRO, Gro	oup Name MRO NSRF				
Answer	No				
Document Name					
Comment					
These comments represent the MRO NSRF membership as a whole but would not preclude members from submitting individual comments					
The changes which move Vendor Remote Access remote access from Parts 2.4 and 2.5 to Parts 3.1 and 3.2 better clarify the requirements for entities, however adding EACMS to the scope of the standard requires an Intermediate System to access an EACMS; and because an Intermediate System is already defined as an EACMS (because it provides electronic access), and hence the change requires an entity to deploy a separate Intermediate (EACMS) to access the Intermediate System that provides access to the BCS.					
The entity must implement another upstream control beyond that EACMS in order to disable the access "to" it, thereby creating another upstream device that qualifies as an EACMS by definition.					
Recommend language to clarify the term access. This could be "authenticated access, access session, etc" so it is clear that "a knock on the front door" of the EACMS that authenticates the system/user is NOT considered "access" (or in this case, by extension, "vendor remote access") to an					

EACMS. This would preclude auditors from interpreting a "knock at the front door of the EACMS that is later denied within the EACMS" as "access to" an EACMS.

Additionally, Requirement R3 Part 3.2 is a "how" in disguise instead of an objective "what". Another potential solution to consider could be the following: Requirement R3 Part 3.2. "Have one or more method(s) to revoke the ability to for a vendor to establish and use remote access". If this were the language, then "terminating established vendor remote access sessions" is one way "how" an entity could meet this objective (although it highlights the gap in the existing draft that terminating established sessions alone may not preclude the re-establishment of another session). This language could also resolve the hall of mirrors because now the entity can define the revocation point that precludes authentication and subsequent use within the layers of EACMS controls, and the "knock at the front door" to the EACMS is no longer "access".

Another consideration is to revise CIP-002 to allow entities to define only those systems they use as Intermediate Systems and/or Remote Access.

Likes 0		
Dislikes 0		
Response		
Eli Rivera - CenterPoint Energy Houston	Electric, LLC - NA - Not Applicable - Texas RE	
Answer	No	
Document Name		
Comment		
CenterPoint Energy Houston Electric, LLC (CEHE) supports the comments as submitted by the Edison Electric Institute	
Likes 0		
Dislikes 0		
Response		
Romel Aquino - Edison International - So	outhern California Edison Company - 3	
Answer	No	
Document Name		
Comment		
Please see comments submitted by Edison Electric Institute		
Likes 0		
Dislikes 0		
Response		
Sean Bodkin - Dominion - Dominion Resources, Inc 6, Group Name Dominion		

Answer	No
Document Name	
Comment	
not required. This modification conflicts with access sessions regardless of the source of reasons, Intermediate Systems cannot be energy continues to opine that EACMS sho	nodifications made to the second draft of CIP-005-7, Requirement R3 clarify that Intermediate Systems are h Requirement R2, subpart 2.1, which requires the use of Intermediate Systems for all interactive remote f initiation. In addition, the definition of EACMS currently includes Intermediate Systems. Based on these excluded. Moreover, Requirement R3 makes EACMS applicable to this requirement. Additionally Dominion huld be excluded from the applicability section of Requirement R2, subpart 2.5. Moving this requirement, in this draft, has not solved the issues identified in our comments to the earlier draft of CIP-005-7.
access. Consequently, entities would be re the Intermediate System, which is not possi credentials, which are then generally check	"vendor remote access" includes both Interactive Remote Access (IRA) as well as system-to-system equired to determine the identity of the source of communications before they can establish a session with ble because sSystems must establish a session with the Intermediate System in order to receive user ed with another EACMS (such as a domain controller) in order to determine whether the source is a has already had access to the entity's EACMS.
	SDT should consider removing EACMS from the scope of CIP-005 Requirement R3. We understand that the determine and disable vendor remote access sessions to BES Cyber Systems by using EACMS. If this is escribed the objective.
Likes 0	
Dislikes 0	
Response	
Richard Jackson - U.S. Bureau of Reclan	nation - 1
Answer	No
Document Name	
Comment	
Reclamation recommends revising the lang applies to R3.	uage of CIP-005-7 R2 Part 2.1 to account for the addition of R3. It is not clear if Part 2.1 carries over and
Likes 0	
Dislikes 0	
Response	
Matthew Nutsch - Seattle City Light - 1,3,	,4,5,6 - WECC

Answer	No	
Document Name		
Comment		
Seattle City Light concurs with the comments provided by Snohomish PUD		
Likes 0		
Dislikes 0		
Response		
Chris Wagner - Santee Cooper - 1, Group	Name Santee Cooper	
Answer	No	
Document Name		
Comment		
Moving the language to the new R3 requirement does not make it clearer that Intermediate systems are not required for R3. If this is the SDT's intent, then it should directly state it in the requirement.		
Likes 0		
Dislikes 0		
Response		
Andrea Jessup - Bonneville Power Administration - 1,3,5,6 - WECC		
Answer	No	
Document Name		
Comment		
BPA notes that the proposed language still cites applicability to EACMS; Intermediate Systems are included in the definition of EACMS so the language still appears to include a requirement to determine active sessions to an Intermediate System, even if the remote session does not continue on the provide access to an asset in the ESP. In addition, not all EACMS are the same; this term has become too inclusive of many different types of		

BPA believes the crux of the problem, as demonstrated by previous comments and unofficial ballot responses by multiple entities, is this: The EACMS definition is concurrently being modified by the 2016-02 project and keeping the current definition inclusive of logging and monitoring systems is problematic for the same reasons in both drafting efforts. The level of threat to and risk from a system that 'controls access' vs a system that provides a support function by 'logging or monitoring access and access attempts' is different. Logging and monitoring systems benefit from global oversight and gathering logs from the entire enterprise. Access granting systems benefit from specificity and narrow focus on the asset they are protecting. The CIP standards **must not** discourage or penalize efforts on the part of an entity to modernize their SIEM and threat analysis capability. Adding compliance burden to their enterprise logging and monitoring systems is such a discouragement.

technology to apply requirements.

From a standards standpoint, this is not a common approach to address access control and access monitoring, as they are mutually exclusive. Even FISMA breaks them apart as control families as Access Control (AC) and Audit and Accountability (AU) to address access control and access monitoring respectively, as an example.

An example of more precise language (and BPA suggests this for inclusion in Guidelines and Technical Basis) might be:

R3.1 Have one or more methods for DETECTING active sessions (including both system-to-system and Interactive Remote Access, regardless of the identity of the person initiating the session) that traverse an EAP to logically access any applicable cyber asset in the ESP or ESZ.

R3.2 Have one or more method(s) to TERMINATE active sessions as referred to in R3.1

R3.3 Have one or more method(s) to DISABLE INITIATION OF NEW remote access sessions as referred to in R3.1.

Please note the terminology and conceptual change to a 3 part requirement: "Detect/Terminate/Disable". The word "Determine" is unusual usage and not aligned with typical cyber security terminology. The reason for a separate requirement in our proposed R3.3 is simple; terminating existing sessions does not prevent an attacker from spawning new sessions, and it is very easy to automate such requests. The requirement to "disable active vendor remote access" is crippled by the word "active" because it does not clearly express a need to disable future sessions which are by definition not "active". Combining the two requirements is parsimonious of words to the point of obscuring the objective. Without a means of denying new sessions, whether granularly or globally, an entity could find themselves playing "whack-a-mole" with an adversary and never able to manually keep it with automated requests. An example of granular control might be disabling a specific vendor's remote access account, blocking requests from a specific IP address or range, or changing an authentication token or password for a particular user account's remote access. This could be an absolute block or a suspension on new sessions for a timed period. For a global option, examples include simply denying all remote access attempts via change to a global VPN policy, firewall rule, etc. This is the proverbial "take a fire axe to the Internet connection" option.

The measures column for CIP-005=07 R3.1 includes "Methods that control vendor initiation of remote access such as vendors calling and requesting a second factor in order to initiate remote access." While this may be an effective measure for requiring authorization for a remote session, this is not an effective measure for determining an active session, sans a requirement to periodically/automatically terminate active sessions.

The measures column for R3.2 better captures the concept that the remote access to the Intermediate System or other EACMS is not the issue; simply getting a login prompt to a cyber-asset outside the ESP is low risk. Another means of clarifying the risk around Intermediate Systems might be to add Intermediate System to the applicability column to apply the R3.1 requirement to have a detective control, and leave it out of the R3.2(/R3.3 if adopted) applicability column, not requiring a specific ability to terminate/deny sessions to Intermediate Systems, but rather into the ESP/ESZ.

Likes 0	
Dislikes 0	
Response	
(Tacoma, WA), 3, 1, 4, 5, 6; Marc Donalds	Hien Ho, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; John Merrell, Tacoma Public Utilities son, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; Ozan Ferrin, Tacoma Public Utilities (Tacoma, Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; - Jennie Wike
Answer	No
Document Name	
Comment	

Tacoma Power thanks the SDT for considering our previous comments. Unfortunately, moving the language to a new requirement does not clarify the situation. Our concern is that the typical device used to detect a vendor remote access session is the EACMS that the vendor is accessing. Applying this requirement to an EACMS appears to be requiring an EACMS for an EACMS, producing a hall of mirrors.

Additionally, the term "active" has been removed from the language, removing this requirement's role in support of the Part 3.2 requirement, since there is no time-bound nature to the current Part 3.1 language. We could have a method to detect after-the-fact vendor-initiated access, which would serve the Part 3.1 requirement language, but not the needs of Part 3.2.

No. 1 - 3, Group Name SNPD Voting Members		
No		
ediate systems are not required or in scope, suggest stating so directly: "Intermediate are not required for		
Public Utility District No. 1 of Snohomish County, 4, Martinsen John		
Edison Co. of New York - 5		
No		
Vendor remote access is part of remote access. It is not clear why these are separated.		
Additional confusion caused by another SDT will modify the "interactive remote access" definition. That update will happen after this update. We recommend this definition change needs to happen as part of this project.		
More confusion from the "hall of mirrors" – intermediate systems for intermediate systems. We are not advocating for this hall of mirrors.		

Is this change in scope? SDT moved this language < <active (including="" access="" access,="" as="" includes="" interactive="" remote="" sessions)="" system-to-system="" vendor="" vendor-initiated="" well="" which="">> from the Requirements to the Measures</active>		
For Interactive Remote Access consistency	, we expected EACMS and PACS to be added to Requirement 2, Part 2.1.	
Likes 0		
Dislikes 0		
Response		
Tho Tran - Tho Tran On Behalf of: Lee M	aurer, Oncor Electric Delivery, 1; - Tho Tran	
Answer	No	
Document Name		
Comment		
	EEI. In addition, without including the language that "Intermediate Systems are not required", it is left to 2.1 and 2.2, use of an Intermediate System is clearly defined.	
Likes 0		
Dislikes 0		
Response		
Meaghan Connell - Public Utility District	No. 1 of Chelan County - 5	
Answer	No	
Document Name		
Comment		
CHPD agrees with Tacoma Power, please refer to their comments.		
Likes 0		
Dislikes 0		
Response	Response	
LaTroy Brumfield - American Transmissi	on Company, LLC - 1	
Answer	No	
Document Name		

Comment

ATC thanks the SDT for attempting to resolve this concern, and agrees with the approach to separate this requirement out into R3; However, unfortunately the hall of mirrors condition still exists with EACMS in the applicability column due to a broader issue of ambiguity in the word "access". Where getting "to" an EACMS associated with a high or medium impact BES Cyber System is considered "access" (or in this case, by extension, "vendor remote access") the entity must still implement another upstream control beyond that EACMS in order to disable the access "to" it, thereby creating 1) another upstream device that qualifies as an EACMS by definition, 2) a hall of mirrors, and 3) an impossibility of compliance. ATC requests consideration of qualifying language that includes "authenticated access", or something of the like, as the target instead of the ambiguous term "access" so it is clear that "a knock on the front door" of the EACMS that authenticates the system/user is NOT considered "access" (or in this case, by extension, "vendor remote access") to an EACMS. This resolves the hall of mirrors issue and provides necessary specificity to preclude auditors from interpreting a "knock at the front door of the EACMS that is later denied within the EACMS" as "access to" an EACMS.

Additionally, Requirement R3 Part 3.2 is a "how" in disguise instead of an objective "what". Another potential solution to consider could be the following: Requirement R3 Part 3.2. "Have one or more method(s) to revoke the ability for a vendor to establish and use remote access". If this were the language, then "terminating established vendor remote access sessions" is one way "how" an entity could meet this objective (although it highlights the gap in the existing draft that terminating established sessions alone may not preclude the re-establishment of another session). This language could also resolve the hall of mirrors because now the entity can define the revocation point that precludes authentication and subsequent use within the layers of EACMS controls, and the "knock at the front door" to the EACMS is no longer "access".

Likes 0	
Dislikes 0	
Response	
Kevin Salsbury - Berkshire Hathaway - NV Energy - 5	
Answer	No
Document Name	
Comment	
NV Energy supports EEI's comments.	
Likes 0	
Dislikes 0	
Response	
John Galloway - John Galloway On Behalf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway	
Answer	No
Document Name	
Comment	

The proposed changes dated 05/14/2020 do not provide clarity regarding the applicability of CIP-005 R2, which includes the need for an Intermediate System for **all** Interactive Remote Access Sessions. The requirement language does not distinguish between vendors vs. non-vendors; therefore, Intermediate Systems would be required for vendor Interactive Remote Access sessions.

Additionally, the current definition for Interactive Remote Access (IRA) in the NERC Glossary of Terms implies R1 and R2 may still be applicable to the new R3.

ISO-NE recommends that the SDT incorporate the new IRA definition proposed by the Virtualization SDT in Project 2016-02 Modifications to CIP Standards into this project. ISO-NE also recommends that the SDT return the language that was moved to the new R3 back to CIP-005 R2.4 and R2.5 in order to maintain continuity with the other CIP-005 R2 remote access requirement parts.

Likes 0	
Dislikes 0	
Response	
Ginette Lacasse - Public Utility District N	No. 1 of Chelan County - 1, Group Name PUD #1 Chelan
Answer	No
Document Name	
Comment	
CHPD agrees with Tacoma Power, please	refer to their comments.
Likes 0	
Dislikes 0	
Response	
Pamela Hunter - Southern Company - So	outhern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company
Answer	No
Document Name	
Comment	
are required for ALL Interactive Remote Ac established vendor-initiated remote access	nakes it clearer that Intermediate Systems are not required. In CIP-005 R2 Part 2.1, Intermediate Systems cess sessions regardless of who initiates them. If the intent of this question is about clarity that terminating sessions to an Intermediate System is no longer required, the answer is no. EACMS is in the Applicability ber Assets that perform electronic access control or electronic access monitoring of the Electronic Security

Perimeter(s) or BES Cyber Systems. This includes Intermediate Systems." By the definition of EACMS, Intermediate Systems are still included in

R3.

The proposed requirement would still require the ability to terminate vendor-initiated remote access sessions to the systems most often used to determine whether the session is vendor-initiated or not. Since the undefined term "vendor remote access" we believe includes both IRA and system-to-system access per the currently approved standard, it appears we would be required to determine the identity of the person BEFORE we allow their system to establish a session with our Intermediate System, which is not possible. The vendor's system must establish a session with the Intermediate System in order to even send the user credentials, which are then checked with usually yet another EACMS (such as a domain controller) in order to determine they are a vendor. At that point, the vendor's system has already had access to our EACMS.

We are also concerned about what "remote" means in context of an EACMS such as an Intermediate System. The definition of Intermediate System states it must NOT be located inside an ESP. The Intermediate System is already remote according to most definitions of remote ('outside the ESP') so what is remote to a remote system?

Southern believes for these reasons that EACMS should either not be in the scope of these particular CIP-005 requirements and the security objective is to be able to determine and disable vendor remote access sessions to BES Cyber Systems by using EACMS to do so. If there is some other vendor EACMS access that is intended, it should be precisely described and used within a separate requirement from the main objective of protecting the BES Cyber Systems.

Likes 0		
Dislikes 0		
Response		
Gerry Adamski - Cogentrix Energy Powe	r Management, LLC - 5	
Answer	No	
Document Name		
Comment		
We do not believe this requirement is clear with respect to Intermediate Systems. For any Interactive Remote Access, an Intermediate System should be required, no matter the source (vendor vs. internal). Second, the second bullet in the measures for Part 3.1 discusses monitoring remote activity, which is inconsistent and exceeds the requirement to detect remote access sessions. Third, the third bullet in the measures for Part 3.1 needs to better explain the methodology the SDT is intending to describe. Lastly, the SDT is making an arbitary distinction for vendor remote access that is unnecessary. All remote access (vendor or internal) should be similarly treated in terms of detecting and termination. However, as discussed previously, the expectation for monitoring is not part of the identified requirements and should be removed from the measures.		
Likes 0		
Dislikes 0		
Response		
Lana Smith - San Miguel Electric Cooperative, Inc 5		

Answer	No	
Document Name		
Comment		
	nis does seem to create a "hall of mirrors" as pointed put by a number of commentors by requiring an stem. There should also be allowance for CIP exceptional circumstances in CIP-013.	
Likes 0		
Dislikes 0		
Response		
Carl Pineault - Hydro-Qu?bec Production	n - 5	
Answer	No	
Document Name		
Comment		
Additional confusion caused by another SDT will modify the "interactive remote access" definition. That update will happen after this update. We recommend this definition change needs to happen as part of this project. More confusion from the "hall of mirrors" – intermediate systems for intermediate systems. We are not advocating for this hall of mirrors. Is this change in scope? SDT moved this language < <active (including="" access="" access,="" as="" includes="" interactive="" remote="" sessions)="" system-to-system="" vendor="" vendor-initiated="" well="" which="">> from the Requirements to the Measures For Interactive Remote Access consistency, we expected EACMS and PACS to be added to Requirement 2, Part 2.1. Likes 0 Dislikes 0 Response</active>		
Sing Tay - OGE Energy - Oklahoma Gas and Electric Co 6, Group Name OKGE		
Answer	No	
Document Name		
Comment		
Some and the second s		
Oklahoma Gas & Electric supports the comments submitted by EEI.		
Likes 0		

Dislikes 0		
Response		
Quintin Lee - Eversource Energy - 1, Gro	up Name Eversource Group	
Answer	No	
Document Name		
Comment		
Vendor remote access is part of remote access. It is not clear why these are separated.		
Additional confusion caused by another SDT will modify the "interactive remote access" definition. That update will happen after this update. We recommend this definition change needs to happen as part of this project.		
More confusion from the "hall of mirrors" – intermediate systems for intermediate systems. We are not advocating for this hall of mirrors.		
Is this change in scope? SDT moved this language < <active (including="" access="" access,="" as="" includes="" interactive="" remote="" sessions)="" system-to-system="" vendor="" vendor-initiated="" well="" which="">> from the Requirements to the Measures</active>		
For Interactive Remote Access consistency	, we expected EACMS and PACS to be added to Requirement 2, Part 2.1.	
Likes 0		
Dislikes 0		
Response		
Andy Fuhrman - Andy Fuhrman On Beha	If of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman	
Answer	No	
Document Name		
Comment		
MPC supports comments submitted by the MRO NERC Standards Review Forum.		
Likes 0		
Dislikes 0		
Response		

Roger Fradenburgh - Roger Fradenburgh On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh	
Answer	No
Document Name	
Comment	

N&ST does not agree that the desired clarity has been achieved, especially since for certain types of "vendor remote access," (e.g., Interactive Remote Access to applicable BES Cyber Systems), Intermediate Systems ARE required. Likewise, for user-initiated remote access, vendor or otherwise, to EACMS and PACS systems that happen to be within Electronic Security Perimeters (not altogether uncommon), Intermediate Systems ARE required. N&ST recommends that the SDT consider a more detailed breakdown of R3 requirement applicability to help Responsible Entities distinguish between types of "vendor remote access" that require Intermediate Systems and types of "vendor remote access that do not, as CIP-005 is currently written, require Intermediate Systems:

Intermediate System required: Vendor remote access that meets the current NERC definition of "Interactive Remote Access" and is therefore subject to CIP-005 R2.

Intermediate System not required: Vendor remote access that does not meet the current NERC definition of "Interactive Remote Access." This includes system-to-system remote access and all types of vendor-initiated remote access to EACMS and PACS devices for which CIP-005 R2 is not applicable.

One way to address this might be to break R3 part 3.1 into two sub-parts:

Part 3.1.1 would be applicable to High Impact BES Cyber Systems and their associated PCA as well as Medium Impact BES Cyber Systems with External Routable Connectivity and their associated PCA (Note the applicability is IDENTICAL to CIP-005 R2).

Part 3.1.2 would be applicable to EACMS and PACS associated with High Impact BES Cyber Systems and with Medium Impact BES Cyber Systems with External Routable Connectivity that are not subject to CIP-005 R2.

Likes 0		
Dislikes 0		
Response		
Wayne Guttormson - SaskPower - 1		
Answer	No	
Document Name		
Comment		
Support the MRO-NSRF comments.		
Likes 0		
Dislikes 0		
Response		

Sandra Shaffer - Berkshire Hathaway - PacifiCorp - 6		
Answer	No	
Document Name		
Comment		
PacifiCorp supports EEI comments.		
Likes 0		
Dislikes 0		
Response		
Barry Jones - Barry Jones On Behalf of: Erin Green, Western Area Power Administration, 1, 6; sean erickson, Western Area Power Administration, 1, 6; - Barry Jones		
Answer	No	
Document Name		
Comment		

The changes which move Vendor Remote Access remote access from Parts 2.4 and 2.5 to Parts 3.1 and 3.2 better clarify the requirements for entities, however adding EACMS to the scope of the standard begs the question if an entity now needs another EACMS Intermediate System to access an EACMS? Because an Intermediate System is already defined as an EACMS (because it provides electronic access), and hence the change requires an entity to deploy a separate Intermediate (EACMS) to access the Intermediate System that provides access to the BCS. The entity must implement another upstream control beyond that EACMS in order to disable the access "to" it, thereby creating another upstream device that qualifies as an EACMS by definition.

Personnel (employees, vendors, suppliers, contractors, etc..) need to be defined in CIP-004. Systems (vendor or entity owned and maintained) need to occur in CIP-002. Why not revise CIP-002 and allow entities to define only those systems they use as Intermediate Systems and/or Remote Access? Or vendor systems?

Why not revise CIP-004 to address vendors?

Additionally, Requirement R3 Part 3.2 is a "how" in disguise instead of an objective "what". Another potential solution to consider could be the following: Requirement R3 Part 3.2. "Have one or more method(s) to revoke the ability to for a vendor to establish and use remote access". If this were the language, then "terminating established vendor remote access sessions" is one way "how" an entity could meet this objective (although it highlights the gap in the existing draft that terminating established sessions alone may not preclude the re-establishment of another session). This language could also resolve the hall of mirrors because now the entity can define the revocation point that precludes authentication and subsequent use within the layers of EACMS controls, and the "knock at the front door" to the EACMS is no longer "access".

Secondly, the standard does not clearly define what System to System remote access is. A valid definition for system to system remote access needs to be created and added to the Glossary of Terms.

Lastly, Requirement 3 also conflicts with Requirement 1 part 1.3. If a Responsible Entity (RE) determines that a connection to a vendor is needed and has placed the appropriate controls on the appropriate interfaces of its protecting asset(s) (Firewalls, routers, etc..) then the connection is needed. Secondly the RE is responsible for determining if a vendor has adequate security controls in place or has applied mitigations as part of their CIP-013 process for that vendor then the requirement 3 is not needed. Connections made from a vendor (type, duration and need) should be spelled out in the procurement contracts derived out of the CIP-013 processes.

Likes 0		
Dislikes 0		
Response		
	ehalf of: Glen Allegranza, Imperial Irrigation District, 1, 6, 5, 3; Jesus Sammy Alcaraz, Imperial za, Imperial Irrigation District, 1, 6, 5, 3; - Denise Sanchez	
Answer	No	
Document Name		
Comment		
If intent is to specifically denote that the intermediate systems are not required or in scope it should be specifically stated "Intermediate systems are not required for R3"		
Likes 0		
Dislikes 0		
Response		
Tim Womack - Puget Sound Energy, Inc.	- 3	
Answer	No	
Answer Document Name	No	
	No	
Document Name		
Document Name Comment		
Document Name Comment Puget Sound Energy supporte the commen		
Document Name Comment Puget Sound Energy supporte the comment Likes 0		
Document Name Comment Puget Sound Energy supporte the comment Likes 0 Dislikes 0		
Document Name Comment Puget Sound Energy supporte the comment Likes 0 Dislikes 0 Response Douglas Webb - Douglas Webb On Beha		
Document Name Comment Puget Sound Energy supporte the comment Likes 0 Dislikes 0 Response Douglas Webb - Douglas Webb On Beha	ts of EEI. If of: Allen Klassen, Westar Energy, 1, 6, 5, 3; Derek Brown, Westar Energy, 1, 6, 5, 3; James McBee,	
Document Name Comment Puget Sound Energy supporte the comment Likes 0 Dislikes 0 Response Douglas Webb - Douglas Webb On Beha Westar Energy, 1, 6, 5, 3; Marcus Moor, V	ts of EEI. If of: Allen Klassen, Westar Energy, 1, 6, 5, 3; Derek Brown, Westar Energy, 1, 6, 5, 3; James McBee, Nestar Energy, 1, 6, 5, 3; - Douglas Webb, Group Name Westar-KCPL	
Document Name Comment Puget Sound Energy supporte the comment Likes 0 Dislikes 0 Response Douglas Webb - Douglas Webb On Beha Westar Energy, 1, 6, 5, 3; Marcus Moor, N Answer	ts of EEI. If of: Allen Klassen, Westar Energy, 1, 6, 5, 3; Derek Brown, Westar Energy, 1, 6, 5, 3; James McBee, Nestar Energy, 1, 6, 5, 3; - Douglas Webb, Group Name Westar-KCPL	
Document Name Comment Puget Sound Energy supporte the comment Likes 0 Dislikes 0 Response Douglas Webb - Douglas Webb On Beha Westar Energy, 1, 6, 5, 3; Marcus Moor, N Answer Document Name Comment	ts of EEI. If of: Allen Klassen, Westar Energy, 1, 6, 5, 3; Derek Brown, Westar Energy, 1, 6, 5, 3; James McBee, Nestar Energy, 1, 6, 5, 3; - Douglas Webb, Group Name Westar-KCPL	

Dislikes 0	
Response	
Greg Davis - Georgia Transmission Corporation - 1	
Answer	No
Document Name	
Comment	
The removal of the term "interactive" and the retention of the terms "remote access" alone do not clearly eliminate the ambiguity regarding intermediate systems. In fact, because the term "remote access" is undefined, the modifications have the potential to be construed as broadening the potential interpretation of the types of vendor-initiated remote access sessions to which the requirements would apply. For this reason, GTC/GSOC do not agree that the proposed revisions makes it clearer that Intermediate Systems are not required. GTC/GSOC further reiterate our previous comments regarding the unsupported addition of PACS to this requirement.	
Likes 0	
Dislikes 0	
Response	
David Jendras - Ameren - Ameren Servio	ces - 3
Answer	No
Document Name	
Comment	
In our opinion the original language in CIP-005-6 stating vendor remote access as system-to-system and interactive is clear and encompassing of all vendor remote access. No change is required to further clarify use of an Intermediate System. However, if further clarification that an Intermediate System is not required I propose the following: "Have one or more methods for determining active vendor remote access sessions (including system-to-system remote access, vendor initiated system-to-system remote access with or without use of an Intermediate System as well as Interactive Remote Access)."	
Likes 0	
Dislikes 0	
Response	
	John Lindsey, Cleco Corporation, 6, 5, 1, 3; Maurice Paulk, Cleco Corporation, 6, 5, 1, 3; Robert ephanie Huffman, Cleco Corporation, 6, 5, 1, 3; - Clay Walker
Answer	No
Document Name	

EEI does not agree that the modifications made to the second draft of CIP-005-7, Requirement R3 clarify that Intermediate Systems are not required. This modification conflicts with Requirement R2, subpart 2.1; which requires the use of Intermediate Systems for all interactive remote access sessions regardless of the source of initiation. Also, the definition of EACMS includes Intermediate Systems. For these reasons, Intermediate Systems cannot be excluded. Moreover, Requirement R3 makes EACMS applicable to this requirement. EEI additionally notes that our comments to the previous draft suggested excluding EACMS from the applicability section of Requirement R2, subpart 2.5. Moving this requirement, along with the minor modifications has not solved the issues identified in our comments to the earlier draft of CIP-005-7.

It is our understanding that "vendor remote access" includes both Interactive Remote Access (IRA) as well as system-to-system access. Consequently, entities would be required to determine the identity of the source of communications before they can establish a session with the Intermediate System, which is not possible because systems must establish a session with the Intermediate System in order to receive user credentials, which are then generally checked with another EACMS (such as a domain controller) in order to determine whether the source is a vendor. At this point, the vendor's system has already had access to the entity's EACMS.

For these reasons, we ask the SDT to consider removing EACMS from the scope of CIP-005 Requirement R3. We understand that the security objective for this requirement is to determine and disable vendor remote access sessions to BES Cyber Systems by using EACMS. If this is incorrect, we ask the SDT to more clearly described the objective.

Likes 0		
Dislikes 0		
Response		
Ruida Shu - Northeast Power Coordinatii	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC Regional Standards Committee	
Answer	No	
Document Name		
Comment		
Vendor remote access is part of remote access. It is not clear why these are separated.		
Additional confusion caused by another SDT will modify the "interactive remote access" definition. That update will happen after this update. We recommend this definition of change needs to happen as part of this project.		
More confusion from the "hall of mirrors" – intermediate systems for intermediate systems. We are not advocating for this hall of mirrors.		
Is this change in scope? SDT moved this la	nguage <-active vendor remote access (including system-to-system remote access, as well as Interactive	

Is this change in scope? SDT moved this language <<active vendor remote access (including system-to-system remote access, as well as Interactive Remote Access, which includes vendor-initiated sessions)>> from the Requirements to the Measures

For Interactive Remote Access consistency, we expected EACMS and PACS to be added to Requirement 2, Part 2.1.		
Likes 0		
Dislikes 0		
Response		
Ray Jasicki - Xcel Energy, Inc 1,3,5		
Answer	No	
Document Name		
Comment		
Support the comments of the Edison Electri	c Institute (EEI)	
Likes 0		
Dislikes 0		
Response		
Leonard Kula - Independent Electricity S	ystem Operator - 2	
Answer	No	
Document Name		
Comment		
IESO, in general, supports the comments submitted by NPCC and by IRC		
The wording of Requirement R3 suggests that these are only requirements that apply to vendor initiated remote access and may miss the embedded requirement in Requirement R2. IESO recommends that the wording of Requirement R2 should explicitly add "including vendor initiated interactive remote access" as reminder that there are additional requirements for vendor initiated remote access outside of Requirement R3		
While it is preferred, from a cyber-security perspective, to utilize an intermediate system for vendor initiated interactive remote access to EACMS and PACS, IESO recognizes that it may not be appropriate in all situations		
Likes 0		
Dislikes 0		
Response		
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable		

Answer	No
Document Name	
Comment	

EEI does not agree that the modifications made to the second draft of CIP-005-7, Requirement R3 clarify that Intermediate Systems are not required. This modification conflicts with Requirement R2, subpart 2.1; which requires the use of Intermediate Systems for all interactive remote access sessions regardless of the source of initiation. Also, the definition of EACMS includes Intermediate Systems. For these reasons, Intermediate Systems cannot be excluded. Moreover, Requirement R3 makes EACMS applicable to this requirement. EEI additionally notes that our comments to the previous draft suggested excluding EACMS from the applicability section of Requirement R2, subpart 2.5. Moving this requirement, along with the minor modifications has not solved the issues identified in our comments to the earlier draft of CIP-005-7.

It is our understanding that "vendor remote access" includes both Interactive Remote Access (IRA) as well as system-to-system access. Consequently, entities would be required to determine the identity of the source of communications before they can establish a session with the Intermediate System, which is not possible because systems must establish a session with the Intermediate System in order to receive user credentials, which are then generally checked with another EACMS (such as a domain controller) in order to determine whether the source is a vendor. At this point, the vendor's system has already had access to the entity's EACMS.

For these reasons, we ask the SDT to consider removing EACMS from the scope of CIP-005 Requirement R3. We understand that the security objective for this requirement is to determine and disable vendor remote access sessions to BES Cyber Systems by using EACMS. If this is incorrect, we ask the SDT to more clearly described the objective.

Likes 0		
Dislikes 0		
Response		
Darnez Gresham - Berkshire Hathaway Energy - MidAmerican Energy Co 3		
Answer	No	
Document Name		
Comment		
MidAmerican supports EEI comments.		
Likes 0		
Dislikes 0		
Response		
Terry Harbour - Berkshire Hathaway Energy - MidAmerican Energy Co 1,3		
Answer	No	
Document Name		
Comment		

MidAmerican supports EEI comments.		
Likes 0		
Dislikes 0		
Response		
Andrea Barclay - Georgia System Operat	ions Corporation - 4	
Answer	No	
Document Name		
Comment		
regarding intermediate systems. In fact, be broadening the potential interpretation of the below in GSOC's and GTC comments in res	e retention of the term "remote access" (now, undefined) alone do not clearly eliminate the ambiguity cause the term "remote access" is undefined, the modifications have the potential to be construed as e types of vendor-initiated remote access sessions to which the requirements would apply as discussed sponse to Question 2. For this reason, GSOC and GTC does not agree that the proposed revisions make it equired. GSOC and GTC further reiterates its previous comments regarding the unsupported addition of	
Dislikes 0		
Response		
Gladys DeLaO - CPS Energy - 1,3,5		
Answer	No	
Document Name		
Comment		
The NERC definition of Electronic Access Control or Monitoring Systems clearly states that Intermediate Systems are also considered as EACMS. Recommend specific language to address "Electronic Access Point(s)" for system to system remote access and intermediate systems for vendor IRA. It is inferred, however, not clear, that an Intermediate system is not required for system to system access, but is needed for IRA.		

Separating the two parts into another requirement would make it clearer, however in R2.1 the requirement still reads that for **all** Interactive Remote Access, utilize an intermediate system. Somehow it still creates confusion if it's required for "all" but not for vendors? In Requirement R2, Part 2.1, revise "all" remote sessions must be through an Intermediate System and add "excluding vendor system to system remote access through an EAP."

Additionally, the requirement R3 Part 3.1 states "to detect" vendor-initiated remote access sessions. In the Examples of evidence, "Methods for accessing logged or monitoring information..." implies that the Responsible Entity is required to monitor vendor activity during the remote session. Is the objective to detect or to monitor the vendor remote access session or both? For instance, once the vendor remote session is detected or established, is the Responsible Entity required to monitor the vendor activity continuously during the remote session or just receive periodic alerts that the session remains open with the ability to terminate as needed?

Likes 0	
Dislikes 0	
Response	
Bobbi Welch - Midcontinent ISO, Inc 2,	Group Name ISO/RTO Council Standards Review Committee 2019-03 Supply Chain Risks_June 2020
Answer	No
Document Name	
Comment	
ISO/RTO Council Standards Review Comm within an ESP, but EACMS and PACS are n require EACMS and PACS to be treated as control or electronic access monitoring of th System must not be located inside the Elec For these reasons, the IRC SRC is against introduces an unsolvable problem. Second, the IRC SRC believes the addition FERC order was limited to the extension of	adding EACMS and PACS for the added scope of network inside of the ESP as the proposed language of EACMS and PACS to the scope of CIP-005 is more than what was directed in the FERC order. The supply chain requirements under CIP-013. to add more requirements when a standard has not been put into place yet, the cost to the industry is
Likes 0	
Dislikes 0	
Response	
Monika Montez - California ISO - 2 - WECC	
Answer	No
Document Name	
Comment	
CAISO is supporting the IRC SRC Commer	nts as follows:

The purpose of CIP-005 is to manage electronic access to BES Cyber Systems by specifying a controlled Electronic Security Perimeter (ESP). The ISO/RTO Council Standards Review Committee (IRC SRC) is supportive of adding PCAs to CIP-005 since PCAs are already defined as a Cyber Asset within an ESP, but EACMS and PACS are not part of the ESP. The concern is that extending the scope of CIP-005 to include EACMS and PACS will require EACMS and PACS to be treated as if they are part of the network inside of the ESP. By definition, Cyber Assets that perform electronic access control or electronic access monitoring of the ESP include Intermediate Systems and according to the Intermediate Systems definition, an Intermediate System must not be located inside the Electronic Security Perimeter.

For these reasons, the IRC SRC is against adding EACMS and PACS for the added scope of network inside the ESP as the proposed language introduces an unsolvable problem.

Second, the IRC SRC believes the addition of EACMS and PACS to the scope of CIP-005 is more than what was directed in the FERC order. The FERC order was limited to the extension of supply chain requirements under CIP-013.

Finally, the IRC SRC believes it is too early to add more requirements when a standard has not been put into place yet, the cost to the industry is unknown and its effectiveness is unproven.

Likes 0		
Dislikes 0		
Response		
Joshua Andersen - Salt River Project - 1,3,5,6 - WECC		
Answer	No	
Document Name		
Comment		
R2.1 states that an Intermediate System is required for all IRA. Vendor access is not excluded. Moving vendor access from Part 2 to Part 3 does not change that R2.1 is required. SRP recommends language in the standards are made clearer to indicate Intermediate Systems are not required in R3		
Likes 0		
Dislikes 0		
Response		
Constantin Chitescu - Ontario Power Ger	neration Inc 5	
Answer	No	
Document Name		
Comment		
OPG supports the NPCC Regional Standards Committee comments.		
Likes 0		
Dislikes 0		
Response		
Scott Tomashefsky - Northern California	Power Agency - 4	
Answer	No	

Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Masuncha Bussey - Duke Energy - 1,3,5,	6 - MRO,Texas RE,SERC, Group Name Duke Energy	
Answer	Yes	
Document Name		
Comment		
Duke Energy agrees that the proposed mod	lifications in CIP-005-7 makes it clearer that Intermediate Systems are not required.	
Likes 0		
Dislikes 0		
Response		
Bruce Reimer - Manitoba Hydro - 1		
Answer	Yes	
Document Name		
Comment		
We agree to move all Vendor Remote Access requirement remote access from Parts 2.4 & 2.5 to Parts 3.1 and 3.2 since it is clearer that Intermediate System is not required for Interactive Remote access to EACMS and PACS.		
Likes 0		
Dislikes 0		
Response		
Steven Rueckert - Western Electricity Co	oordinating Council - 10	
Answer	Yes	
Document Name		
Comment		

The addition of the Applicable Systems to the Requirement Parts (by itself) makes it clear that Intermediate Systems are not required for vendor remote access; some of these applicable systems cannot reside in a defined Electronic Security Perimeter. The term "vendor-initiated" is troubling because it should not matter whether the vendor or the entity initiates the connection; the risks are identical either way. By specifying only "vendor-initiated" connections, the language omits some vendor remote access connections, and therefore does not meet the security objective of the Requirement. WECC recommends removing the term "vendor-initiated" to ensure risks of vendor access connections are addressed, whether vendor or entity initiated.

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		
While this does make it clearer, as a part of the standard's Supplemental Material this should be spelled out, so there is no gray area.		
Likes 0		
Dislikes 0		
Response		
Kevin Conway - Public Utility District No. 1 of Pend Oreille County - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Randy Cleland - GridLiance Holdco, LP - 1		
Answer	Yes	
Document Name		
Comment		

Likes 0		
Dislikes 0		
Response		
Kelsi Rigby - APS - Arizona Public Service Co 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Tony Skourtas - Los Angeles Department of Water and Power - 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Peter Brown - Invenergy LLC - 5 - MRO,WECC,Texas RE,NPCC,SERC,RF		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter		
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Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Teresa Cantwell - Lower Colorado River	Authority - 5, Group Name LCRA Compliance	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
James Baldwin - Lower Colorado River A	Authority - 1,5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Dmitriy Bazylyuk - NiSource - Northern Indiana Public Service Co 3, Group Name NIPSCO		
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Maryanne Darling-Reich - Black Hills Co	rporation - 1,3,5,6 - MRO,WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Marty Hostler - Northern California Powe	er Agency - 5
Answer	
Document Name	
Comment	
NO. See response to question 7.	
Likes 0	
Dislikes 0	
Dislikes 0	
Dislikes 0	outhern California Edison Company - 6
Dislikes 0 Response	outhern California Edison Company - 6
Dislikes 0 Response Kenya Streeter - Edison International - S	outhern California Edison Company - 6
Dislikes 0 Response Kenya Streeter - Edison International - S Answer	outhern California Edison Company - 6
Dislikes 0 Response Kenya Streeter - Edison International - S Answer Document Name	
Dislikes 0 Response Kenya Streeter - Edison International - S Answer Document Name Comment	
Dislikes 0 Response Kenya Streeter - Edison International - S Answer Document Name Comment Please see comments submitted by Edison	

Neil Shockey - Edison International - Sou	ithern California Edison Company - 5
Answer	
Document Name	
Comment	
Please see comments submitted by Edison	Electric Institute
Likes 0	
Dislikes 0	
Response	
Linn Oelker - PPL - Louisville Gas and El	ectric Co 6
Answer	
Document Name	
Comment	
I support EEI's comments.	
Likes 0	
Dislikes 0	
Response	
Gail Elliott - Gail Elliott On Behalf of: Mic	hael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott
Answer	
Document Name	
Comment	
ITC is Abstaining	
Likes 0	
Dislikes 0	
Response	
Rachel Coyne - Texas Reliability Entity, Inc 10	

Answer	
Document Name	
Comment	
Texas RE agrees an additional Intermediate System is not needed for access to an EACMS Intermediate System, and that the SDT's addition of a new Requirement R3 clarifies this fact. Texas RE notes that, as presently drafted, the proposed Requirement R3 does not require multi-factor authentication and encryption for PACS and EACMS. Vendor remote access brings an increased risk of threats and vulnerabilities to registered entities' CIP environments. For example, a malicious actor could gain access to and/or control of the EACMS and PACS for multiple registered entities through a single compromised vendor. Requiring multi-factor authentication and encryption controls would help decrease the risk of misuse, compromise, and data breach through vendor remote access sessions.	
As such, Texas RE suggests that the SDT consider incorporating multi-factor authentication and encryption requirements into the proposed Requirement R3. Alternatively, the SDT could implement these requirements by adding PACS and EACMS to the Applicable Systems subject to Requirement R2, Parts 2.1 – 2.3, while retaining the proposed Parts 2.4 and 2.5 from Draft One and incorporating clarifying language explaining that when an Intermediate System is an EACMS, another Intermediate System is not required.	
Likes 0	
Dislikes 0	
Response	

2. The SDT is proposing language in CIP-005-7 in the newly formed R3 to clarify remote session conditions. Do you agree that these changes clearly define the types of remote sessions that are covered by the standards? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.		
Constantin Chitescu - Ontario Power Generation Inc 5		
Answer	No	
Document Name		
Comment		
OPG supports the NPCC Regional Standards Committee comments.		
Likes 0		
Dislikes 0		
Response		
Joshua Andersen - Salt River Project - 1,	3,5,6 - WECC	
Answer	No	
Document Name		
Comment		
There is no definitive definition of what is an active vendor remote access session including system-to-system remote access as well as Interactive Remote Access, which includes vendor-initiated sessions.		
SRP would like to see clear definitions added to the Glossary of Terms and examples of each within the Guidelines and Technical Basis.		
Likes 0		
Dislikes 0		
Response		
Tyson Archie - Platte River Power Authority - 5		
Answer	No	
Document Name		
Comment		
CIP-005, R3.1		

"Detecting" is not a good word choice. Malicious traffic must be detected because it requires investigation and discovery. Vendor remote access is granted by the entity and the entity provides the method by which remote access is performed. The method enabling remote access must have the ability to enumerate remote access sessions.

Suggestion: The method enabling vendor-initiated remote access must have the ability to enumerate connected remote access sessions.

CIP-005, R3.2

An "established vendor" is a vendor that has been in business or a long time. How long does a session have to be active before it is widely considered to be established? The intent is to terminate a "connected" session.

Suggestion: Have one or more method(s) to terminate connected vendor-initiated remote access sessions.

Likes 0		
Dislikes 0		
Response		
Gladys DeLaO - CPS Energy - 1,3,5		
Answer	No	
Document Name		
Comment		
It isn't as clear as it could be. Diagrams of the different scenarios would certainly help to clarify. Additionally, suggest replacing the word "Detect" as this implies the vendor is trying to make a remote connection without any permission from the Responsible Entity. Suggested wording for R3, Part 3.1: Have one or more methods for "establishing and monitoring" vendor-initiated remote access sessions.		
Dislikes 0		
Response		
Andrea Barclay - Georgia System Operations Corporation - 4		
Answer	No	
Document Name		
Comment		
The proposed revisions do not clearly define the types of remote sessions that are covered by the standards and have the potential to be construed as broadening the potential interpretation of the types of vendor-initiated remote access sessions to which the requirements would apply. More		

broadening the potential interpretation of the types of vendor-initiated remote access sessions to which the requirements would apply. More specifically, the term "remote access" is not defined and could be construed as access from outside an entity's network, access from outside of the Electronic Security Perimeter within which the assets resides, access through an intermediate system, or any other access that is initiated by a vendor

and interpretations by both registered and re makes clearer the types of remote sessions the appropriate, assigned SDT to modify the language or (2) create newly defined terms	able asset. This potential for ambiguity and confusion could lead to significantly different implementations egional entities (as applicable). For this reason, GSOC and GTC does not agree that the proposed revisions that are covered by the standards. GSOC and GTC recommends that the SDT either: (1) collaborate with e definition of "Interactive Remote Access" as necessary to ensure that it incorporates the necessary for "vendor-initiated remote access" and "vendor-initiated system-to-system access." GSOC and GTC arding the unsupported addition of PACS to this requirement.	
Likes 0		
Dislikes 0		
Response		
Terry Harbour - Berkshire Hathaway Ene	rgy - MidAmerican Energy Co 1,3	
Answer	No	
Document Name		
Comment		
MidAmerican supports EEI comments.		
Likes 0		
Dislikes 0		
Response		
Darnez Gresham - Berkshire Hathaway E	nergy - MidAmerican Energy Co 3	
Answer	No	
Document Name		
Comment		
MidAmerican supports EEI comments.		
Likes 0		
Dislikes 0		
Response		
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable		
Answer	No	
Document Name		
Comment		

The current language in CIP-005-7, Requirement R3 does not sufficiently describe what constitutes, or clarifies the meaning of, a remote session within the context of an EACMS. Specifically, having access to an EACMS does not mean the device has been exploited.

Moreover, the term "remote" in the context of an EACMS, such as an Intermediate System, is unclear given Intermediate Systems, by definition, must be remote from an Electronic Security Perimeter.

Likes 0		
Dislikes 0		
Response		
Leonard Kula - Independent Electricity System Operator - 2		
Answer	No	
Document Name		
Comment		
As written, see comments to question 1.		
Likes 0		
Dislikes 0		
Response		
Ray Jasicki - Xcel Energy, Inc 1,3,5		
Answer	No	
Document Name		
Comment		
Support the comments of the Edison Electric Institute (EEI)		
Likes 0		
Dislikes 0		
Response		
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; Stephanie Huffman, Cleco Corporation, 6, 5, 1, 3; - Clay Walker		
Answer	No	
Document Name		

Comment

The current language in CIP-005-7, Requirement R3 does not sufficiently describe what constitutes, or clarifies the meaning of, a remote session within
the context of an EACMS. Specifically, having access to an EACMS does not mean the device has been exploited.

Moreover, the term "remote" in the context of an EACMS, such as an Intermediate System, is unclear given Intermediate Systems, by definition, must be remote from an Electronic Security Perimeter.

Likes 0	
Dislikes 0	
Response	
David Jendras - Ameren - Ameren Servic	ses - 3
Answer	No
Document Name	
Comment	
See response to question 1.	
Likes 0	
Dislikes 0	
Response	
James Baldwin - Lower Colorado River A	Authority - 1,5
Answer	No
Document Name	
Comment	
The changes to the SCRM Standards expanded remote sessions. In the proposed version, "vendor-initiated remote access sessions" has been added. This creates some confusion on what "vendor-initiated" actually is. It would be beneficial to leverage language of Interactive Remote Access such as "Remote access originates from a Cyber Asset that is not an Intermediate System and not located within any of the Responsible Entity's Electronic Security Perimeter(s) or at a defined Electronic Access Point (EAP)".	
Likes 0	
Dislikes 0	
Response	
Greg Davis - Georgia Transmission Corp	poration - 1

Answer	No	
Document Name		
Comment		
The proposed revisions do not clearly define the types of remote sessions that are covered by the standards and have the potential to be construed as broadening the potential interpretation of the types of vendor-initiated remote access sessions to which the requirements would apply. More specifically, the term "remote access" is not defined and could be construed as access from outside an entity's network, access from outside of the Electronic Security Perimeter within which the assets resides, access through an intermediate system, or any other access that is initiated by a vendor and that does not directly access the applicable asset. This potential for ambiguity and confusion could lead to significantly different implementations and interpretations by both registered and regional entities (as applicable). For this reason, GTC/GSOC do not agree that the proposed revisions makes clearer the types of remote sessions that are covered by the standards. GTC/GSOC further reiterate our previous comments regarding the unsupported addition of PACS to this requirement.		
Likes 0		
Dislikes 0		
Response		
Douglas Webb - Douglas Webb On Behalf of: Allen Klassen, Westar Energy, 1, 6, 5, 3; Derek Brown, Westar Energy, 1, 6, 5, 3; James McBee, Westar Energy, 1, 6, 5, 3; Marcus Moor, Westar Energy, 1, 6, 5, 3; - Douglas Webb, Group Name Westar-KCPL		
Answer	No	
Document Name		
Comment		
Evergy (Westar Energy and Kanas City Power & Light Co.) incorporate by reference the Edison Electric Institute's response to Question 2.		
Likes 0		
Dislikes 0		
Response		
Tim Womack - Puget Sound Energy, Inc 3		
Answer	No	
Document Name		
Comment		
Puget Sound Energy supporte the comments of EEI.		
Likes 0		
Dislikes 0		

Response		
Barry Jones - Barry Jones On Behalf of: Erin Green, Western Area Power Administration, 1, 6; sean erickson, Western Area Power Administration, 1, 6; - Barry Jones		
Answer	No	
Document Name		
Comment		
The term "detecting" in part 3.1 - whereas an entity is required to "Have one or more methods for detecting vendor-initiated remote access sessions" implies an entity is not aware of the instances of when a vendor is remotely accessing their BCS and must "detect" when they access the BCS. What is the security value in detecting a vendor who is already authorized to access the BCS?		
A person accessing a system, vendor, or other should be addressed in CIP-004. The identification of a vendor system should occur in CIP-002. This also maps to ISO and NIST cyber security frameworks.		
Recommend considering preventive controls to authenticate vendor sessions. This could be administrative processes such as sharing a code word, verifying vendor change ticket numbers, pre-confirmed call-out lists, confirming an authentication code (such as RSA token), or technical controls such as Identity and Access Management controls. In some emergency situations a need may arise for vendors to initiate and establish remote access to an entities BCS, however a voice call to authenticate may be a better control.		
Secondly, the words "established sessions" are an improvement from the language in the first draft; however, while this solved the problem posed by "disabling active sessions" where an idle session could remain enabled, it created another gap through the introduction of the word "initiated". The qualifier "initiated" may have unintended consequences that defy the security objectives. If the goal is to implement controls that prevent or mitigate the risk of unauthorized access, retention of established sessions, and the ability to re-establish sessions (whether interactive or system-to-system) by a remote vendor then the initiator of that established session is moot. It is the "presence of" and "capability to use" the established session that is the risk regardless of which end initiated it.		
Recommend alternative language that focuses on the risk itself or consider : Requirement R3 Part 3.1. "Have one or more methods for detecting established vendor remote access sessions." Requirement R3 Part 3.2. "Have one or more method(s) to revoke the ability for a vendor to establish and use remote access". In this case "terminating established vendor remote access sessions" is one way "how" an entity could meet this objective (although it highlights the gap in the existing draft that terminating an established session alone may not preclude the re-establishment of another session), hence the need to adjust this language.		
Additionally, the phrase "vendor remote access" is ambiguous because it is undefined and the word "access" is broad. As a result, emerging interpretations are blending the concepts of read-only "information sharing" sessions (CIP-011) with the concepts of BCS "access" sessions (CIP-005 & CIP-007). Consequently, established non-persistent read only sessions (i.e. WebEx) between a Registered Entity and a vendor are being lumped into the "vendor remote access" bucket.		
Consider language to exclude non-persistent read only information sharing sessions (i.e. WebEx) from being considered "access" to prevent CIP-011 from creeping into CIP-005		
Likes 0		
Dislikes 0		
Response		

Sandra Shaffer - Berkshire Hathaway - PacifiCorp - 6

Answer	No	
Document Name		
Comment		
PacifiCorp supports EEI comments.		
Likes 0		
Dislikes 0		
Response		
Wayne Guttormson - SaskPower - 1		
Answer	No	
Document Name		
Comment		
Support the MRO-NSRF comments.		
Likes 0		
Dislikes 0		
Response		
Teresa Cantwell - Lower Colorado River	Authority - 5, Group Name LCRA Compliance	
Answer	No	
Document Name		
Comment		
The changes to the SCRM Standards expanded remote sessions. In the proposed version, "vendor-initiated remote access sessions" has been added. This creates some confusion on what "vendor-initiated" actually is. It would be beneficial to leverage language of Interactive Remote Access such as "Remote access originates from a Cyber Asset that is not an Intermediate System and not located within any of the Responsible Entity's Electronic Security Perimeter(s) or at a defined Electronic Access Point (EAP)".		
Likes 0		
Dislikes 0		
Response		
Roger Fradenburgh - Roger Fradenburgh	n On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh	

Answer	No		
Document Name			
Comment			
N&ST does not agree that the desired clarity has been achieved. N&ST recommends that the SDT consider a more detailed breakdown of R3 requirement applicability to help Responsible Entities distinguish between types of "vendor remote access" that DO require Intermediate Systems and types of "vendor remote remote access that do NOT, as CIP-005 is currently written, require Intermediate Systems:			
Intermediate System required: Vendor remote access that meets the current NERC definition of "Interactive Remote Access" and is therefore subject to CIP-005 R2.			
Intermediate System not required: Vendor remote access that does not meet the current NERC definition of "Interactive Remote Access." This includes system-to-system remote access and all types of vendor-initiated remote access to EACMS and PACS devices for which CIP-005 R2 is not applicable.			
One way to address this might be to break	R3 part 3.1 into two sub-parts:		
Part 3.1.1 would be applicable to High Impact BES Cyber Systems and their associated PCA as well as Medium Impact BES Cyber Systems with External Routable Connectivity and their associated PCA (Note the applicability is IDENTICAL to CIP-005 R2).			
	Part 3.1.2 would be applicable to EACMS and PACS associated with High Impact BES Cyber Systems and with Medium Impact BES Cyber Systems with External Routable Connectivity that are not subject to CIP-005 R2.		
Likes 0			
Dislikes 0			
Response			
	If of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman		
	If of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman		
Andy Fuhrman - Andy Fuhrman On Beha	· · · · · · · · · · · · · · · · · · ·		
Andy Fuhrman - Andy Fuhrman On Beha Answer	· · · · · · · · · · · · · · · · · · ·		
Andy Fuhrman - Andy Fuhrman On Beha Answer Document Name	No		
Andy Fuhrman - Andy Fuhrman On Beha Answer Document Name Comment	No		
Andy Fuhrman - Andy Fuhrman On Beha Answer Document Name Comment MPC supports comments submitted by the	No		
Andy Fuhrman - Andy Fuhrman On Beha Answer Document Name Comment MPC supports comments submitted by the Likes 0	No		
Andy Fuhrman - Andy Fuhrman On Beha Answer Document Name Comment MPC supports comments submitted by the Likes 0 Dislikes 0	No		
Andy Fuhrman - Andy Fuhrman On Beha Answer Document Name Comment MPC supports comments submitted by the Likes 0 Dislikes 0	No MRO NERC Standards Review Forum.		
Andy Fuhrman - Andy Fuhrman On Beha Answer Document Name Comment MPC supports comments submitted by the Likes 0 Dislikes 0 Response	No MRO NERC Standards Review Forum.		
Andy Fuhrman - Andy Fuhrman On Beha Answer Document Name Comment MPC supports comments submitted by the Likes 0 Dislikes 0 Response Quintin Lee - Eversource Energy - 1, Gro	No MRO NERC Standards Review Forum.		

As written, see comments to question 1		
Likes 0		
Dislikes 0		
Response		
Sing Tay - OGE Energy - Oklahoma Gas	and Electric Co 6, Group Name OKGE	
Answer	No	
Document Name		
Comment		
Oklahoma Gas & Electric supports the comments submitted by EEI.		
Likes 0		
Dislikes 0		
Response		
Carl Pineault - Hydro-Qu?bec Production	n - 5	
Answer	No	
Document Name		
Comment		
As written, see comments to question 1		
Likes 0		
Dislikes 0		
Response		
Lana Smith - San Miguel Electric Cooperative, Inc 5		
Answer	No	
Document Name		
Comment		
The proposed revisions do not clearly define the types of remote sessions that are covered by the standards. CIP standards need to use consistent language, define unclear terms and not leave so much to interperetation if requiring specific actions.		

Likes 0			
Dislikes 0			
Response			
Gerry Adamski - Cogentrix Energy Powe	Gerry Adamski - Cogentrix Energy Power Management, LLC - 5		
Answer	No		
Document Name			
Comment			
Refer to responses to Question 1.			
Likes 0			
Dislikes 0			
Response			
Pamela Hunter - Southern Company - So	uthern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company		
Answer	No		
Document Name			
Comment			
Southern does not agree that the changes clearly define the types of remote sessions. There is still some ambiguity on what would be considered remote if the entity is to disable remote access to the very things that are used to define what remote access actually is. Would a remote user who attempts to get to an asset but is not authenticated and authorized, but made it to the asset that denies access, is that still considered access? The security which denies the access, such as a firewall, simply does not allow the access. However, there would be a log that is collected of the attempted access as well as any access that is authenticated and authorized.			
Likes 0			
Dislikes 0			
Response			
Ginette Lacasse - Public Utility District N	o. 1 of Chelan County - 1, Group Name PUD #1 Chelan		
Answer	No		
Document Name			
Comment			
CHPD agrees with Tacoma Power, please refer to their comments.			

Likes 0	
Dislikes 0	
Response	
John Galloway - John Galloway On Beha	alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway
Answer	No
Document Name	
Comment	
	ty. Although the addition of "initiated" is appreciated, the removal of the IRA and system-to-system qualifiers "all" remote access sessions must be included or if the Entity has the authority to define "vendor-initiated ing the scope of requirement.
The removal of IRA and system-to-system	is also inconsistent with the language changes to CIP-013-2, R1.2.6.
system-to-system remote access, as well a ISO-NE recommends keeping the "initiated	a language from the original CIP-005-2 R2.4 and R2.5 requirements "active vendor remote access (including
consistency with CIP-013-2.	
Likes 0	
Dislikes 0	
Response	
Kevin Salsbury - Berkshire Hathaway - N	
Answer	No
Document Name	
Comment	
NV Energy supports EEI's comments.	
Likes 0	
Dislikes 0	
Response	

LaTroy Brumfield - American Transmission Company, LLC - 1	
Answer	No
Document Name	
Comment	

ATC agrees the words "established sessions" are an improvement from the language in the first draft; however, while this solved the problem posed by "disabling active sessions" where an idle session could remain enabled, it created another gap through the introduction of the word "initiated". The qualifier "initiated" may have unintended consequences that defy the security objectives. If the goal is to implement controls that prevent or mitigate the risk of unauthorized access, retention of established sessions, and the ability to re-establish sessions (whether interactive or system-to-system) by a remote vendor then the initiator of that established session is moot. It is the "presence of" and "capability to use" the established session that is the risk regardless of which end initiated it. ATC requests consideration of alternative language that focuses on the risk itself. Another potential solution to consider could be the following: Requirement R3 Part 3.1. "Have one or more methods for detecting established vendor remote access sessions." Requirement R3 Part 3.2. "Have one or more method(s) to revoke the ability for a vendor to establish and use remote access". If this were the language, then "terminating established vendor remote access sessions" is one way "how" an entity could meet this objective (although it highlights the gap in the existing draft that terminating an established session alone may not preclude the re-establishment of another session), hence the need to adjust this language.

Additionally, the phrase "vendor remote access" is ambiguous because it is undefined and the word "access" is broad. As a result, emerging interpretations are blending the concepts of read-only "information sharing" sessions (CIP-011) with the concepts of BCS "access" sessions (CIP-005 & CIP-007). Consequently, established non-persistent read only sessions (i.e. WebEx) between a Registered Entity and a vendor are being lumped into the "vendor remote access" bucket. ATC requests consideration of qualifying language to exclude non-persistent read only information sharing sessions (i.e. WebEx) from being considered "access" to prevent CIP-011 from creeping into CIP-005.

Likes 0		
Dislikes 0		
Response		
Meaghan Connell - Public Utility District No. 1 of Chelan County - 5		
Answer	No	
Document Name		
Comment		
CHPD agrees with Tacoma Power, please refer to their comments.		
Likes 0		
Dislikes 0		
Response		
Tho Tran - Tho Tran On Behalf of: Lee Maurer, Oncor Electric Delivery, 1; - Tho Tran		

Answer	No	
Document Name		
Comment		
Oncor supports the comments submitted by EEI. In addition, there is a conflict between the language in CIP-005-7, R3 and CIP-013-2 inasmuch CIP- 013, R1.2.6 takes out "Interactive", and "with a vendor" in terms of remote or system to system access, but then the changes to CIP-005-7 do not match the changes in CIP-013-2, R1.2.6.		
Likes 0		
Dislikes 0		
Response		
William Winters - Con Ed - Consolidated	Edison Co. of New York - 5	
Answer	No	
Document Name		
Comment		
As written, see comments to question 1.		
Likes 0		
Dislikes 0		
Response		
(Tacoma, WA), 3, 1, 4, 5, 6; Marc Donalds	Hien Ho, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; John Merrell, Tacoma Public Utilities son, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; Ozan Ferrin, Tacoma Public Utilities (Tacoma, Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; - Jennie Wike	
Answer	No	
Document Name		
Comment		
The changes to the newly formed R3 appear to have had the opposite effect of clearly defining the types of remote sessions. With these changes, there is no clarity about what a vendor-initiated remote access session is. Does "access" refer to read-only access? Or does "access" only refer to control? What is the meaning of "remote" in this situation? "Remote" to an applicable system? How is that clarified? Tacoma Power does not support these changes to CIP-005 and recommends creating one or more defined terms to help provide clarity in this situation.		
Likes 0		
Dislikes 0		
Response		

Andrea Jessup - Bonneville Power Administration - 1,3,5,6 - WECC		
Answer	No	
Document Name		
Comment		
While the SDT is coming at this from the supply chain aspect, the technical application of the mechanisms to detect, terminate and disable remote access sessions requires the ability to do it for any remote access session; therefore the specific language "active vendor remote access" and "includes vendor-initiated sessions" is of no practical value. If the entity has the ability to detect, terminate, and disable remote access sessions, they have the ability do this for vendors or for insiders. In BPA's opinion, there is no point in making the requirement strictly about vendors. It could as easily be applied to partners, customers, remote employees, etc., and to the same benefit in reduced risk to the reliability and secure operation of the grid.		
Likes 0		
Dislikes 0		
Response		
Chris Wagner - Santee Cooper - 1, Group	o Name Santee Cooper	
Answer	No	
Document Name		
Comment		
No, Santee Cooper does not believe that the changes in CIP-005-7 R3 clarify remote session conditions. If this is the SDT's intent, then they should define vendor-initiated remote access. In CIP-013-2 two different remote access conditions are mentioned vendor-initiated remote access and system to system remote access. Whereas in CIP-005-7 only vendor-initiated remote access is mentioned.		
Likes 0		
Dislikes 0		
Response		
Sean Bodkin - Dominion - Dominion Res	ources, Inc 6, Group Name Dominion	
Answer	No	
Document Name		
Comment		

The current language in CIP-005-7, Requirement R3 does not sufficiently describe what constitutes, or clarifies the meaning of, a remote session within the context of an EACMS. Specifically, having access to an EACMS does not equate to the device being exploited.

Moreover, the term "remote" in the context of an EACMS, such as an Intermediate System, is unclear given Intermediate Systems, by definition, must be remote from an Electronic Security Perimeter.		
Likes 0		
Dislikes 0		
Response		
Romel Aquino - Edison International - So	outhern California Edison Company - 3	
Answer	No	
Document Name		
Comment		
Please see comments submitted by Edison	Electric Institute	
Likes 0		
Dislikes 0		
Response		
Eli Rivera - CenterPoint Energy Houston	Electric, LLC - NA - Not Applicable - Texas RE	
Answer	No	
Document Name		
Comment		
CEHE supports the comments as submitted by the Edison Electric Institute.		
Likes 0		
Dislikes 0		
Response		
Dana Klem - MRO - 1,2,3,4,5,6 - MRO, Gro	oup Name MRO NSRF	
Answer	No	
Document Name		
Comment		
These comments represent the MRO NSRF membership as a whole but would not preclude members from submitting individual comments		

The term "detecting" in part 3.1 - whereas an entity is required to "Have one or more methods for **detecting** vendor-initiated remote access sessions" implies an entity is not aware of the instances of when a vendor is remotely accessing their BCS and must "detect" when they access the BCS. What is the security value in detecting an entity which is assumed to already be authorized to access the BCS?

Recommend considering preventive controls to authenticate vendor sessions. This could be administrative processes such as sharing a code word, verifying vendor change ticket numbers, pre-confirmed call-out lists, confirming an authentication code (such as RSA token), or technical controls such as Identity and Access Management controls. In some emergency situations, a need may arise for vendors to initiate and establish remote access to an entity's BCS, however, a voice call to authenticate may be a better control.

Secondly, the words "established sessions" are an improvement from the language in the first draft; however, while this solved the problem posed by "disabling active sessions" where an idle session could remain enabled, it created another gap through the introduction of the word "initiated". The qualifier "initiated" may have unintended consequences that defy the security objectives. If the goal is to implement controls that prevent or mitigate the risk of unauthorized access, retention of established sessions, and the ability to re-establish sessions (whether interactive or system-to-system) by a remote vendor then the initiator of that established session is moot. It is the "presence of" and "capability to use" the established session that is the risk regardless of which end initiated it.

Recommend alternative language that focuses on the risk itself or consider: Requirement R3 Part 3.1. "Have one or more methods for detecting established vendor remote access sessions." Requirement R3 Part 3.2. "Have one or more method(s) to revoke the ability for a vendor to establish and use remote access". In this case "terminating established vendor remote access sessions" is one way "how" an entity could meet this objective (although it highlights the gap in the existing draft that terminating an established session alone may not preclude the re-establishment of another session), hence the need to adjust this language.

Additionally, the phrase "vendor remote access" is ambiguous because it is undefined and the word "access" is broad. As a result, emerging interpretations are blending the concepts of read-only "information sharing" sessions (CIP-011) with the concepts of BCS "access" sessions (CIP-005 & CIP-007). Consequently, established non-persistent read-only sessions (i.e. WebEx) between a Registered Entity and a vendor are being lumped into the "vendor remote access" bucket.

Consider language to exclude non-persistent read-only information sharing sessions (i.e. WebEx) from being considered "access" to prevent CIP-011 from creeping into CIP-005.

Likes 0		
Dislikes 0		
Response		
Karie Barczak - DTE Energy - Detroit Edison Company - 3, Group Name DTE Energy - DTE Electric		
Answer	No	
Document Name		
Comment		
No, the changes made it worse by including the definition of a session in the measure and not in the requirement itself. As written in part 3.1 entities have to detect "vendor-initiated remote access sessions" without indication on what this includes. It is vague language. In the measure a definition is given for an active vendor remote access session as "including system-to-system, as well as interactive remote access, which includes vendor-initiated sessions". Requirements cannot be buried in glossary definitions or measures as it implies a rule without be an explicit rule. The definition needs to be placed back into the requirement itself.		
Likes 0		

Dislikes 0

Response	
Steven Rueckert - Western Electricity Coordinating Council - 10	
No	
Parts do clearly define the types of remote sessions that are covered by the standards. However, the terminology ("vendor-initiated" connections) that is used in the Requirements language, which may lead to he term "vendor-initiated" as discussed in the previous comment.	
ion, Inc 1	
No	
 Tri-State does find the addition of the phrase "vendor-initiated" helpful, however we think it still leaves too much room for interpretation. To further clarify, we recommend a few additional edits: 1) In the measure for part 3.1, recommend changing the language "(including system-to-system remote access, as well as Interactive Remote Access, which includes vendor-initiated sessions)" with "(either via system-to-system remote access or Interactive Remote Access, and which is initiated from a vendor's asset or system)", and 2) In the requirement itself, we recommend adding something like the following to end of the drafted requirement language ", whether via system-to-system remote access or Interactive Remote Access." Similar edits should be made to part 3.2. Finally, we ask that the drafting team consider adding a statement to help clarify and address the various emerging regional interpretations regarding web conferences, either in the core requirement R3, or under both parts 3.1 and 3.2. To that end, we recommend adding a statement to this effect "Remote sessions initiated by the responsible entity's personnel, where the vendor has no control, is not in scope". 	
Dennis Sismaet - Northern California Power Agency - 6	
No	

Comment

This project should be canceled or at least placed on hold until the following occur:

1. DOE issues their report detailing how they will proceed with BPS Supply Chain requirements in accordance with the 2020 Presidential Executive Order. It is not prudent for NERC to continue spending inordinate amount of valued Industry stakeholders' time on this endeavor which will likely change in the near future as a result of DOE's efforts. Regardless, FERC will probably immediately order project changes anyway, even if Industry approves the proposal as is.

2. NERC provides a cost proposal, first and that it be accurate and reasonable. Future SARs should not be allowed through the Standards Committee without a cost estimate. All stakeholders need to know the estimated cost prior to SAR posting and deserve to know the cost of what they are voting on.

3. FERC levels the playing field by ordering BAs to modify their Tariffs, and compensate GO/GOPs for fixed NERC Compliance Costs. NERC's response to SAR page three Market Principle one was inaccurate. California ISO (CAISO) Market rules, and maybe other ISOs too, do not allow GOPs to recover fixed costs for unfunded FERC/NERC reliability mandates. Non-GOP Market Participants have no said obligations nor costs. This is an extremely unfair business practice especially considering the BAs/ISOs are compensated for, allowed to recover, 100% of their NERC/FERC fixed compliance costs. Additionally, this results in unfair Market competitive advantages for non-GOP generator Market Participants in the CAISO BA to the detriment, disadvantage of GOPs like NCPA.

4. Finally, future submittals/proposals should not be sent for balloting until the CIP STD not only develops proposed standard revisions, but also develop guidance and audit approach measures, that Auditors shall be required to follow, which should be balloted/commented on at the same time as the proposed standard revisions. No more, after-the-fact, Standards interruptions by FERC, NERC, and/or REs that were not approved by all Stakeholders.

Likes 0	
Dislikes 0	
Response	
Anthony Jablonski - ReliabilityFirst - 10	
Answer	No
Document Name	
Comment	

The words "vendor-initiated remote access sessions" are not properly defined and are ambiguous. "Sessions" could be taken as exclusive to TCP Only connections or could mean any connection such as a serial HyperTerminal session ... etc.

R2 strictly discusses vendor-initiated remote access. If an entity initiates the remote access via a WebEx and gives control to a vendor the access should then be considered vendor initiated and follow R3 requirements.

Does the vendor-initiated remote access include non-routable vendor-initiated communications Consider including communications such as dial-up, serial, corporate TTY terminal servers to EACMS and PACS, etc.. Perhaps modify requirements to state P3.1 – " Have one or more methods for detecting all vendor sessions, regardless of protocol, type of connection, or initiation" and P3.2 - "Have one or more methods to terminate all vendor sessions regardless of protocol, type of connection, or initiation"

Likes 0		
Dislikes 0		
Response		
Erick Barrios - New York Power Authorit	y - 6	
Answer	No	
Document Name		
Comment		
As written, see comments to question 1.		
Likes 0		
Dislikes 0		
Response		
Masuncha Bussey - Duke Energy - 1,3,5,	6 - MRO,Texas RE,SERC, Group Name Duke Energy	
Answer	No	
Document Name		
Comment		
Duke Energy does not agree that the proposed language clarifies remote session conditions. Duke Energy, is concerned about the new wording for R3.1, specifically the change of "determined" to "detecting". This leaves open a question if the intent is continuous monitoring for or detection of sessions, on-demand or periodic detection, or just detection upon initiation.		
Likes 0		
Dislikes 0		
Response		
Scott Tomashefsky - Northern California Power Agency - 4		
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		

Response	
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC Regional Standards Committee
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Monika Montez - California ISO - 2 - WEC	C
Answer	Yes
Document Name	
Comment	
CAISO is supporting the IRC SRC Commer The IRC SRC believes that the proposed la initiated".	nts as follows: nguage under R3 more clearly defines the type of remote sessions that are covered by adding "vendor-
Likes 0	
Dislikes 0	
Response	
Bobbi Welch - Midcontinent ISO, Inc 2, Group Name ISO/RTO Council Standards Review Committee 2019-03 Supply Chain Risks_June 2020	
Answer	Yes
Document Name	
Comment	
The IRC SRC believes that the proposed language under R3 more clearly defines the type of remote sessions that are covered by adding "vendor- initiated"	
Likes 0	
Dislikes 0	
Response	

Holly Chaney - Snohomish County PUD	No. 1 - 3, Group Name SNPD Voting Members	
Answer	Yes	
Document Name		
Comment		
No comments.		
Likes 1	Public Utility District No. 1 of Snohomish County, 4, Martinsen John	
Dislikes 0		
Response		
Matthew Nutsch - Seattle City Light - 1,3	,4,5,6 - WECC	
Answer	Yes	
Document Name		
Comment		
Seattle City Light concurs with the commen	its provided by Snohomish PUD	
Likes 0		
Dislikes 0		
Response		
Bruce Reimer - Manitoba Hydro - 1		
Answer	Yes	
Document Name		
Comment		
We agree to the proposing language in Par instances of when a vendor is remotely acc	t 3.2, but disagree the term "detecting" in Part 3.1 since "detecting" implies an entity is not aware of the cessing their BCS and must "detect" them. We suggest changing from "detecting" to "verifying".	
Likes 0		
Dislikes 0		
Response		
Maryanne Darling-Reich - Black Hills Corporation - 1,3,5,6 - MRO,WECC		

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Dmitriy Bazylyuk - NiSource - Northern I	ndiana Public Service Co 3, Group Name NIPSCO
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	
Denise Sanchez - Denise Sanchez On Be Irrigation District, 1, 6, 5, 3; Tino Zaragoz	ehalf of: Glen Allegranza, Imperial Irrigation District, 1, 6, 5, 3; Jesus Sammy Alcaraz, Imperial za, Imperial Irrigation District, 1, 6, 5, 3; - Denise Sanchez
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy C	corporation - 4, Group Name FE Voter
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Peter Brown - Invenergy LLC - 5 - MRO,V	VECC,Texas RE,NPCC,SERC,RF
Answer	Yes
Document Name	
Comment	
	· · · · · · · · · · · · · · · · · · ·
Likes 0	
Dislikes 0	
Response	
Richard Jackson - U.S. Bureau of Reclan	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Tony Skourtas - Los Angeles Department of Water and Power - 3	

Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kelsi Rigby - APS - Arizona Public Servio	ce Co 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Randy Cleland - GridLiance Holdco, LP - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kevin Conway - Public Utility District No. 1 of Pend Oreille County - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		

Dislikes 0	
Response	
Rachel Coyne - Texas Reliability Entity, I	nc 10
Answer	
Document Name	
Comment	
Please see Texas RE's comments to #1.	
Likes 0	
Dislikes 0	
Response	
Gail Elliott - Gail Elliott On Behalf of: Mic	hael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott
Answer	
Document Name	
Comment	
Comment ITC is Abstaining	
ITC is Abstaining	
ITC is Abstaining Likes 0	
ITC is Abstaining Likes 0 Dislikes 0	
ITC is Abstaining Likes 0 Dislikes 0	ectric Co 6
ITC is Abstaining Likes 0 Dislikes 0 Response	ectric Co 6
ITC is Abstaining Likes 0 Dislikes 0 Response Linn Oelker - PPL - Louisville Gas and El Answer Document Name	ectric Co 6
ITC is Abstaining Likes 0 Dislikes 0 Response Linn Oelker - PPL - Louisville Gas and El Answer	ectric Co 6
ITC is Abstaining Likes 0 Dislikes 0 Response Linn Oelker - PPL - Louisville Gas and El Answer Document Name	ectric Co 6
ITC is Abstaining Likes 0 Dislikes 0 Response Linn Oelker - PPL - Louisville Gas and El Answer Document Name Comment	ectric Co 6
ITC is Abstaining Likes 0 Dislikes 0 Response Linn Oelker - PPL - Louisville Gas and El Answer Document Name Comment I support EEI's comments.	ectric Co 6

Neil Shockey - Edison International - Sou	uthern California Edison Company - 5
Answer	
Document Name	
Comment	
Please see comments submitted by Edison	Electric Institute
Likes 0	
Dislikes 0	
Response	
Kenya Streeter - Edison International - Se	outhern California Edison Company - 6
Answer	
Document Name	
Comment	
Please see comments submitted by Edison	Electric Institute
Likes 0	
Dislikes 0	
Response	
Marty Hostler - Northern California Powe	r Agency - 5
Answer	
Document Name	
Comment	
NO. See response to question 7.	
Likes 0	
Dislikes 0	
Response	

3. The SDT is proposing removing the exception language in CIP-010-4 "Applicable Systems" for PACS which stated "except as provided in Requirement R1, Part 1.6." This reverts the language in this section back to what is in CIP-010-3. Do you agree with this proposed modification? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

Dennis Sismaet - Northern California Power Agency - 6	
Answer	No
Document Name	
Comment	

This project should be canceled or at least placed on hold until the following occur:

1. DOE issues their report detailing how they will proceed with BPS Supply Chain requirements in accordance with the 2020 Presidential Executive Order. It is not prudent for NERC to continue spending inordinate amount of valued Industry stakeholders' time on this endeavor which will likely change in the near future as a result of DOE's efforts. Regardless, FERC will probably immediately order project changes anyway, even if Industry approves the proposal as is.

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3. FERC levels the playing field by ordering BAs to modify their Tariffs, and compensate GO/GOPs for fixed NERC Compliance Costs. NERC's response to SAR page three Market Principle one was inaccurate. California ISO (CAISO) Market rules, and maybe other ISOs too, do not allow GOPs to recover fixed costs for unfunded FERC/NERC reliability mandates. Non-GOP Market Participants have no said obligations nor costs. This is an extremely unfair business practice especially considering the BAs/ISOs are compensated for, allowed to recover, 100% of their NERC/FERC fixed compliance costs. Additionally, this results in unfair Market competitive advantages for non-GOP generator Market Participants in the CAISO BA to the detriment, disadvantage of GOPs like NCPA.

4. Finally, future submittals/proposals should not be sent for balloting until the CIP STD not only develops proposed standard revisions, but also develop guidance and audit approach measures, that Auditors shall be required to follow, which should be balloted/commented on at the same time as the proposed standard revisions. No more, after-the-fact, Standards interruptions by FERC, NERC, and/or REs that were not approved by all Stakeholders.

Likes 0	
Dislikes 0	
Response	
Romel Aquino - Edison International - Southern California Edison Company - 3	
Answer	No
Document Name	
Comment	
Please see comments submitted by Edison Electric Institute	
Likes 0	
Dislikes 0	

Response		
John Galloway - John Galloway On Behalf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway		
Answer	No	
Document Name		
Comment		
Question does not address the proposed addition of EACMS and PACS to the CIP-10-3 R1.6 requirement. ISO-NE does not agree with adding EACMS and PACS to the "Applicable Systems." The additions potentially exceed the FERC order, which can be interpreted to only extend the supply chain requirements to the CIP-013-1 Standard. Given the CIP-010-3 R1.6 requirement is not even effective yet, there is insufficient evidence to support further expansion into a CIP environment.		
Likes 0		
Dislikes 0		
Response		
Greg Davis - Georgia Transmission Corp	oration - 1	
Answer	No	
Document Name		
Comment		
GTC/GSOC do not support any revisions that have the result of including PACS in the requirements of interest in this project. Various reliability standards already mitigate security risks relating to PACS, e.g., CIP-004-6; CIP-006-6; CIP-007-6; CIP-009-6; CIP-010-2; and CIP-011-2. GTC/GSOC assert that these protections are sufficient given the attenuated relationship that a PACS compromise has to BES reliability impacts. For these reasons, GTC/GSOC oppose the inclusion/addition of PACS to the supply chain reliability standards. While GTC/GSOC understand the potential risks identified by NERC in Chapter 3 of its Supply Chain Risks report, they believe that these risks are already appropriately mitigated through the protections that are mandated for PACS within the existing set of CIP reliability standards.		
Likes 0		
Dislikes 0		
Response		
Ray Jasicki - Xcel Energy, Inc 1,3,5		
Answer	No	
Document Name		
Comment		

Support the comments of the Edison Electric Institute (EEI)		
Likes 0		
Dislikes 0		
Response		
Andrea Barclay - Georgia System Operations Corporation - 4		
Answer	No	
Document Name		
Comment		
GSOC and GTC does not support any revisions that have the result of including PACS in the requirements of interest in this project. Various reliability standards already mitigate security risks relating to PACS, e.g., CIP-004-6; CIP-006-6; CIP-007-6; CIP-009-6; CIP-010-2; and CIP-011-2. GSOC and GTC asserts that these protections are sufficient given the attenuated relationship that a PACS compromise has to BES reliability impacts. For these reasons, GSOC and GTC remains opposed to the inclusion/addition of PACS to the applicable supply chain reliability standards. While GSOC and GTC understands the potential risks identified by NERC in Chapter 3 of its Supply Chain Risks report, we believe that these risks are already appropriately mitigated through the protections that are mandated for PACS within the existing set of CIP reliability standards.		
Likes 0		
Dislikes 0		
Response		
Bobbi Welch - Midcontinent ISO, Inc 2, Group Name ISO/RTO Council Standards Review Committee 2019-03 Supply Chain Risks_June 2020		
Answer	No	
Document Name		
Comment		
The IRC SRC believes the question should solicit comment as to the proposed addition of EACMS and PACS of draft 1 which we oppose.		
Second, the IRC SRC believes the addition of EACMS and PACS to the scope of CIP-005 is more than what was directed in the FERC order. The FERC order was limited to the extension of supply chain requirements under CIP-013.		
Also, too early to add more requirements when a standard has not been put into place yet, the cost to the industry is unknown and its effectiveness is unproven.		
The IRC SRC believes that requirement R1.6 should be applied to other Cyber Assets. Making a regulatory compliance requirement for a subset of assets in the enterprise increases the cost of implementation and maintenance dramatically to a point that it may be detrimental to the overall company security posture, ultimately increasing the security risk to the company. Therefore, the IRC SRC opposes adding EACMS and PACS to the R1.6 requirement as this requirement has not yet proven to be effective as it stands.		
Likes 0		

Dislikes 0		
Response		
Monika Montez - California ISO - 2 - WECC		
Answer	No	
Document Name		
Comment		
CAISO is supporting the IRC SRC Comments as follows:		
The IRC SRC believes the question should solicit comment as to the proposed addition of EACMS and PACS of draft 1 which we oppose.		
Second, the IRC SRC believes the addition of EACMS and PACS to the scope of CIP-005 is more than what was directed in the FERC order. The FERC order was limited to the extension of supply chain requirements under CIP-013.		
Also, it is too early to add more requirements when a standard has not been put into place yet, the cost to the industry is unknown and its effectiveness is unproven.		
it also believes that regulatory requirements should not be applied to additional Cyber Assets. When a regulatory compliance requirement is expanded to include additional assets in the enterprise, it increases the cost of implementation and maintenance. At times, this can be dramatic, to a point where it may be detrimental to a company's overall security posture, thereby ultimately increasing the security risk to the company. Therefore, the IRC SRC opposes adding EACMS or PACS to the supply chain requirement as this requirement has not yet proven to be effective as it stands.		
Likes 0		
Dislikes 0		
Response		
Scott Tomashefsky - Northern California	Power Agency - 4	
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Masuncha Bussey - Duke Energy - 1,3,5,6 - MRO,Texas RE,SERC, Group Name Duke Energy		
Answer	Yes	

Document Name		
Comment		
Duke Energy agrees with reverting the language in this section back to what is in CIP-010-3.		
Likes 0		
Dislikes 0		
Response		
Bruce Reimer - Manitoba Hydro - 1		
Answer	Yes	
Document Name		
Comment		
We agree to remove the specific language in the Background section to clarify the applicable PACS.		
Likes 0		
Dislikes 0		
Response		
Erick Barrios - New York Power Authorit	y - 6	
Answer	Yes	
Document Name		
Comment		
The redline-to-last-posted does not show an	ny changed to Part 1.6.	
We agree that the SDT followed the Directive's instructions.		
Likes 0		
Dislikes 0		
Dislikes 0 Response		
	oup Name MRO NSRF	
Response	oup Name MRO NSRF Yes	
Comment		
---	---	
-	F membership as a whole but would not preclude members from submitting individual comments ies to clarify the requirements pertaining to each applicable system.	
Likes 0		
Dislikes 0		
Response		
-		
Matthew Nutsch - Seattle City Light - 1,3,	4,5,6 - WECC	
Answer	Yes	
Document Name		
Comment		
Seattle City Light concurs with the commen	ts provided by Snohomish PUD	
Likes 0		
Dislikes 0		
Response		
Response		
Response Andrea Jessup - Bonneville Power Admi	nistration - 1,3,5,6 - WECC	
	nistration - 1,3,5,6 - WECC Yes	
Andrea Jessup - Bonneville Power Admi		
Andrea Jessup - Bonneville Power Admi Answer		
Andrea Jessup - Bonneville Power Admi Answer Document Name Comment BPA agrees that this reads better with the la		
Andrea Jessup - Bonneville Power Admi Answer Document Name Comment BPA agrees that this reads better with the la	Yes anguage removed. However, if we are looking at this from a Supply Chain perspective perhaps we should	
Andrea Jessup - Bonneville Power Admi Answer Document Name Comment BPA agrees that this reads better with the la consider removing with "External Routable of	Yes anguage removed. However, if we are looking at this from a Supply Chain perspective perhaps we should	
Andrea Jessup - Bonneville Power Admi Answer Document Name Comment BPA agrees that this reads better with the la consider removing with "External Routable of Likes 0	Yes anguage removed. However, if we are looking at this from a Supply Chain perspective perhaps we should	
Andrea Jessup - Bonneville Power Admi Answer Document Name Comment BPA agrees that this reads better with the laconsider removing with "External Routable of Likes 0 Likes 0 Dislikes 0	Yes anguage removed. However, if we are looking at this from a Supply Chain perspective perhaps we should	
Andrea Jessup - Bonneville Power Admi Answer Document Name Comment BPA agrees that this reads better with the la consider removing with "External Routable of Likes 0 Dislikes 0 Response	Yes anguage removed. However, if we are looking at this from a Supply Chain perspective perhaps we should	
Andrea Jessup - Bonneville Power Admi Answer Document Name Comment BPA agrees that this reads better with the la consider removing with "External Routable of Likes 0 Dislikes 0 Response	Yes anguage removed. However, if we are looking at this from a Supply Chain perspective perhaps we should Connectivity" and evaluate all PACS as they are being procured.	

Comment	
No comments.	
Likes 1	Public Utility District No. 1 of Snohomish County, 4, Martinsen John
Dislikes 0	
Response	
William Winters - Con Ed - Consolidated	Edison Co. of New York - 5
Answer	Yes
Document Name	
Comment	
The redline-to-last-posted does not show a	ny changed to Part 1.6.
We agree that the SDT followed the Directi	ve's instructions.
Likes 0	
Dislikes 0	
Response	
Tho Tran - Tho Tran On Behalf of: Lee M	aurer, Oncor Electric Delivery, 1; - Tho Tran
Answer	Yes
Document Name	
Comment	
No additional comments on this question.	
Likes 0	
Dislikes 0	
Response	
Pamela Hunter - Southern Company - So	outhern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company
Answer	Yes
Document Name	
Comment	

Southern does not have any issues with the removal of the exception language in the Applicable Systems for PACS.		
Likes 0		
Dislikes 0		
Response		
Lana Smith - San Miguel Electric Cooper	ative, Inc 5	
Answer	Yes	
Document Name		
Comment		
Answer should have been "No". We do not	su[pport adding PACS.	
Likes 0		
Dislikes 0		
Response		
Carl Pineault - Hydro-Qu?bec Production	n - 5	
Answer	Yes	
Document Name		
Comment		
The redline-to-last-posted does not show any changed to Part 1.6		
We agree that the SDT followed the Directive	ve's instructions.	
Likes 0		
Dislikes 0		
Response		
Quintin Lee - Eversource Energy - 1, Gro		
Answer	Yes	
Document Name		
Comment		

The redline-to-last-posted does not show any changed to Part 1.6		
We agree that the SDT followed the Directive's instructions		
Likes 0		
Dislikes 0		
Response		
Andy Fuhrman - Andy Fuhrman On Beha	If of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman	
Answer	Yes	
Document Name		
Comment		
MPC supports comments submitted by the	MRO NERC Standards Review Forum.	
Likes 0		
Dislikes 0		
Response		
Barry Jones - Barry Jones On Behalf of: Administration, 1, 6; - Barry Jones	Erin Green, Western Area Power Administration, 1, 6; sean erickson, Western Area Power	
Answer	Yes	
	Yes	
Answer	Yes	
Answer Document Name Comment	Yes	
Answer Document Name Comment		
Answer Document Name Comment Removing this specific language helps entit		
Answer Document Name Comment Removing this specific language helps entit Likes 0		
Answer Document Name Comment Removing this specific language helps entit Likes 0 Dislikes 0		
Answer Document Name Comment Removing this specific language helps entit Likes 0 Dislikes 0 Response		
Answer Document Name Comment Removing this specific language helps entit Likes 0 Dislikes 0 Response	ies to clarify the requirements pertaining to each applicable system.	
Answer Document Name Comment Removing this specific language helps entit Likes 0 Dislikes 0 Response Ruida Shu - Northeast Power Coordinati	ies to clarify the requirements pertaining to each applicable system.	

The redline-to-last-posted does not show any changed to Part 1.6.	
We agree that the SDT followed the Direction	ve's instructions.
Likes 0	
Dislikes 0	
Response	
Leonard Kula - Independent Electricity S	System Operator - 2
Answer	Yes
Document Name	
Comment	
We agree that the SDT followed the Direction	ve's instructions.
Likes 0	
Dislikes 0	
Response	
Constantin Chitescu - Ontario Power Ge	neration Inc 5
Answer	Yes
Document Name	
Comment	
OPG supports the NPCC Regional Standards Committee comments.	
Likes 0	
Dislikes 0	
Response	
Kevin Conway - Public Utility District No	. 1 of Pend Oreille County - 1
Answer	Yes
Document Name	

Likes 0	
Dislikes 0	
Response	
Randy Cleland - GridLiance Holdco, LP -	1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kelsi Rigby - APS - Arizona Public Servi	ce Co 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Anthony Jablonski - ReliabilityFirst - 10	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Kjersti Drott - Tri-State G and T Association, Inc 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Steven Rueckert - Western Electricity Co	ordinating Council - 10	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Karie Barczak - DTE Energy - Detroit Edi	son Company - 3, Group Name DTE Energy - DTE Electric	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Tony Skourtas - Los Angeles Departmen	t of Water and Power - 3	
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Eli Rivera - CenterPoint Energy Houston	Electric, LLC - NA - Not Applicable - Texas RE
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Sean Bodkin - Dominion - Dominion Res	ources, Inc 6, Group Name Dominion
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Richard Jackson - U.S. Bureau of Reclan	nation - 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	
(Tacoma, WA), 3, 1, 4, 5, 6; Marc Donalds	Hien Ho, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; John Merrell, Tacoma Public Utilities con, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; Ozan Ferrin, Tacoma Public Utilities (Tacoma, Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; - Jennie Wike
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Peter Brown - Invenergy LLC - 5 - MRO,V	VECC,Texas RE,NPCC,SERC,RF
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy C	orporation - 4, Group Name FE Voter
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Meaghan Connell - Public Utility District	No. 1 of Chelan County - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
LaTroy Brumfield - American Transmissi	on Company, LLC - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kevin Salsbury - Berkshire Hathaway - N	V Energy - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ginette Lacasse - Public Utility District N	lo. 1 of Chelan County - 1. Group Name PUD #1 Chelan

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gerry Adamski - Cogentrix Energy Powe	r Management, LLC - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Sing Tay - OGE Energy - Oklahoma Gas	and Electric Co 6, Group Name OKGE
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Roger Fradenburgh - Roger Fradenburgh	h On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0	
Response	
Teresa Cantwell - Lower Colorado River	Authority - 5, Group Name LCRA Compliance
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Wayne Guttormson - SaskPower - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Sandra Shaffer - Berkshire Hathaway - Pa	acifiCorp - 6
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Dentes Conches Dentes Conches Or De	half of Olen Alle mennes Immerial Immerian District 4, 6, 5, 2, Jacus Commun Aleger Immerial

Denise Sanchez - Denise Sanchez On Behalf of: Glen Allegranza, Imperial Irrigation District, 1, 6, 5, 3; Jesus Sammy Alcaraz, Imperial Irrigation District, 1, 6, 5, 3; Tino Zaragoza, Imperial Irrigation District, 1, 6, 5, 3; - Denise Sanchez

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Tim Womack - Puget Sound Energy, Inc.	- 3
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Douglas Webb - Douglas Webb On Beha Westar Energy, 1, 6, 5, 3; Marcus Moor, V	lf of: Allen Klassen, Westar Energy, 1, 6, 5, 3; Derek Brown, Westar Energy, 1, 6, 5, 3; James McBee, Vestar Energy, 1, 6, 5, 3; - Douglas Webb, Group Name Westar-KCPL
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
James Baldwin - Lower Colorado River A	Authority - 1,5
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	
	John Lindsey, Cleco Corporation, 6, 5, 1, 3; Maurice Paulk, Cleco Corporation, 6, 5, 1, 3; Robert ephanie Huffman, Cleco Corporation, 6, 5, 1, 3; - Clay Walker
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mark Gray - Edison Electric Institute - NA	A - Not Applicable - NA - Not Applicable
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Darnez Gresham - Berkshire Hathaway Energy - MidAmerican Energy Co 3		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Terry Harbour - Berkshire Hathaway Ene	rgy - MidAmerican Energy Co 1,3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Rachel Coyne - Texas Reliability Entity, I	nc 10	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Gladys DeLaO - CPS Energy - 1,3,5		
Answer	Yes	
Document Name		
Comment		

Likes 0		
Dislikes 0		
Response		
Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC, Texas RE, SERC, RF, Group Name ACES Standard Collaborations		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Dmitriy Bazylyuk - NiSource - Northern In	ndiana Public Service Co 3, Group Name NIPSCO	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Maryanne Darling-Reich - Black Hills Cor	rporation - 1,3,5,6 - MRO,WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Joshua Andersen - Salt River Project - 1,3,5,6 - WECC		

Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Marty Hostler - Northern California Powe	er Agency - 5	
Answer		
Document Name		
Comment		
NO. See response to question 7.		
Likes 0		
Dislikes 0		
Response		
Kenya Streeter - Edison International - So	outhern California Edison Company - 6	
Answer		
Document Name		
Comment		
Please see comments submitted by Edison Electric Institute		
Likes 0		
Dislikes 0		
Response		
Neil Shockey - Edison International - Sou	uthern California Edison Company - 5	
Answer		
Document Name		
Comment		

Please see comments submitted by Edison Electric Institute		
Likes 0		
Dislikes 0		
Response		
Linn Oelker - PPL - Louisville Gas and El	lectric Co 6	
Answer		
Document Name		
Comment		
I support EEI's comments.		
Likes 0		
Dislikes 0		
Response		
Gail Elliott - Gail Elliott On Behalf of: Mic	hael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer		
Document Name		
Comment		
ITC is Abstaining		
Likes 0		
Dislikes 0		
Response		

4. To address comments the SDT reconstructed the wording in CIP-013-2 Requirement R1, Part 1.2.6 to clarify that all types of vendorinitiated remote access needs to be considered. Do you agree that these changes clearly define the types of remote sessions that are covered by the standards? If you do not agree, please provide your recommendations and if appropriate, technical or procedural justification.

Constantin Chitescu - Ontario Power Generation Inc 5		
Answer	No	
Document Name		
Comment		
OPG supports the NPCC Regional Standar	ds Committee comments.	
Likes 0		
Dislikes 0		
Response		
Joshua Andersen - Salt River Project - 1	,3,5,6 - WECC	
Answer	No	
Document Name		
Comment		
There is no clear definition of what is a ven clearly defined.	dor-initiated, remote access and system-to-system remote access. SRP would like to see the definitions	
Likes 0		
Dislikes 0		
Response		
Monika Montez - California ISO - 2 - WEC	C	
Answer	No	
Document Name		
Comment		
CAISO is supporting the IRC SRC Comment The IRC SRC believes that the reconstructed of what types of remote access.	nts as follows: ed wording of requirement R1, Part 1.2.6 is inconsistent with the proposed changes to CIP-005. It is not clear	

Likes 0		
Dislikes 0		
Response		
Bobbi Welch - Midcontinent ISO, Inc 2,	Group Name ISO/RTO Council Standards Review Committee 2019-03 Supply Chain Risks_June 2020	
Answer	No	
Document Name		
Comment		
The IRC SRC believes that the reconstructed wording of requirement R1, Part 1.2.6 is Inconsistent with the proposed changes to CIP-005. It is not clear of what types of remote access.		
Likes 0		
Dislikes 0		
Response		
Tyson Archie - Platte River Power Autho	rity - 5	
Answer	No	
Document Name		
Comment		
Removing "Interactive" creates ambiguity and negates the need for having a (i) and (ii). The result is (i) remote access, and (ii) system-to-system remote access (which is a subset and included within (i) remote access). Without "Interactive" (ii) is redundant.		
The resulting requirement then would be, "Coordination of controls for vendor-initiated remote access".		
The term "remote access" is unclear and must be further defined. That is why the original language clarified "remote access" using "Interactive Remote Access" (a defined term) and "system-to-system remote access" (commonly understood).		
Suggestion: define the term "remote access" or put "Interactive Remote Access" and "system-to-system remote access" back into the requirement.		
Likes 0		
Dislikes 0		
Response		
Gladys DeLaO - CPS Energy - 1,3,5		
Answer	No	
Document Name		

Comment		
This creates more confusion as CIP-005-7 refers to IRA and vendor remote access. Need to correlate that if the vendor uses IRA, requirements in R2 apply. Correct? Otherwise vendor remote access (system to system) must be through an EAP.		
Likes 0		
Dislikes 0		
Response		
Andrea Barclay - Georgia System Operat	ions Corporation - 4	
Answer	No	
Document Name		
Comment		
access" and "system to system access" hav sessions to which the requirements would a as modified by the term "vendor-initiated," c Perimeter within which the assets resides, a directly access the applicable asset. This p by both registered and regional entities (as	d GTC respectfully reiterates that revisions to strip the requirements down to generic terms like "remote re the potential to be construed as broadening the potential interpretation of the types of remote access apply. More specifically, the terms "remote access" and "system to system access" are not defined and, even ould be construed as access from outside an entity's network, access from outside of the Electronic Security access through an intermediate system, or any other access that is initiated by a vendor and that does not otential for ambiguity and confusion could lead to significantly different implementations and interpretations applicable). For this reason, GSOC and GTC does not agree that the proposed revisions make clearer the by the standards. GSOC and GTC further reiterates its previous comments regarding the unsupported	
Likes 0		
Dislikes 0		
Response		
Terry Harbour - Berkshire Hathaway Ene	rgy - MidAmerican Energy Co 1,3	
Answer	No	
Document Name		
Comment		
MidAmerican Energy Company agrees with considering vendor-initiated remote access. However, the standard language should address the intent versus the capability. Further, we recommend continuing to use the term Interactive Remote Access to address the remote access scoping issues related to the version proposed. Even if the vendor could potentially gain access, such as by requesting control during a WebEx meeting, that is not vendor-initiated remote access.		
Examples:		

 If the intent of the remote access is to perform operational activities on a BES Cyber System, then that vendor initiated remote access is in- scope for this requirement. 		
 If the intent is to show a user's computer for trouble-shooting or other reasons, then this is read-only access managed by the Entity and not subject to the standard. 		
Likes 0		
Dislikes 0		
Response		
Darnez Gresham - Berkshire Hathaway E	nergy - MidAmerican Energy Co 3	
Answer	No	
Document Name		
Comment		
versus the capability. Further, we recommend continuing to use the term Interactive Remote Access to address the remote access scoping issues related to the version proposed. Even if the vendor could potentially gain access, such as by requesting control during a WebEx meeting, that is not vendor-initiated remote access.		
· If the intent of the remote access is to perform operational activities on a BES Cyber System, then that vendor initiated remote access is in-scope for this requirement.		
 If the intent is to show a user's comput to the standard. 	er for trouble-shooting or other reasons, then this is read-only access managed by the Entity and not subject	
Likes 0		
Dislikes 0		
Response		
Leonard Kula - Independent Electricity S	ystem Operator - 2	
Answer	No	
Document Name		
Comment	Comment	
We recommend that any changes to CIP-00	05 need to be consistent with changes here.	

CIP-005 moved system-to-system from the Requirements to the Measures, while CIP-013 leaves system-to-system in the Requirements. We recommend consistency between these Standards.		
Likes 0		
Dislikes 0		
Response		
Ray Jasicki - Xcel Energy, Inc 1,3,5		
Answer	No	
Document Name		
Comment		
Support the comments of the Edison Electri	c Institute (EEI)	
Likes 0		
Dislikes 0		
Response		
Ruida Shu - Northeast Power Coordinatin	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC Regional Standards Committee	
Answer	No	
Document Name		
Comment		
We recommend that any changes to CIP-005 need to be consistent with changes here. CIP-005 moved system-to-system from the Requirements to the Measures, while CIP-013 leaves system-to-system in the Requirements. We recommend consistency between these Standards.		
CIP-005 moved system-to-system from the	Requirements to the Measures, while CIP-013 leaves system-to-system in the Requirements. We	
CIP-005 moved system-to-system from the	Requirements to the Measures, while CIP-013 leaves system-to-system in the Requirements. We	
CIP-005 moved system-to-system from the recommend consistency between these Sta	Requirements to the Measures, while CIP-013 leaves system-to-system in the Requirements. We	
CIP-005 moved system-to-system from the recommend consistency between these Sta	Requirements to the Measures, while CIP-013 leaves system-to-system in the Requirements. We	
CIP-005 moved system-to-system from the recommend consistency between these Sta Likes 0 Dislikes 0	Requirements to the Measures, while CIP-013 leaves system-to-system in the Requirements. We ndards.	
CIP-005 moved system-to-system from the recommend consistency between these Sta Likes 0 Dislikes 0 Response	Requirements to the Measures, while CIP-013 leaves system-to-system in the Requirements. We ndards.	

Comment		
We believe that the proposed wording changes for R1.2.6 unnecessarily broaden the scope of this requirement. The term "interactive" is key to the wording of this requirement and consistent with the usage of IRA elsewhere in the CIP Standards.		
Likes 0		
Dislikes 0		
Response		
James Baldwin - Lower Colorado River A	uthority - 1,5	
Answer	No	
Document Name		
Comment		
The changes to the SCRM Standards expanded remote sessions. In the proposed version, "vendor-initiated remote access sessions" has been added. This creates some confusion on what "vendor-initiated" actually is. It would be beneficial to leverage language of Interactive Remote Access such as "Remote access originates from a Cyber Asset that is not an Intermediate System and not located within any of the Responsible Entity's Electronic Security Perimeter(s) or at a defined Electronic Access Point (EAP)".		
Likes 0		
Dislikes 0		
Response		
Greg Davis - Georgia Transmission Corp	oration - 1	
Answer	No	
Document Name		
Comment		
For the reasons indicated above, GTC/GSOC respectfully reiterate that revisions to strip the requirements down to generic terms like "remote access" and "system to system access" have the potential to be construed as broadening the potential interpretation of the types of remote access sessions to which the requirements would apply. More specifically, the terms "remote access" and "system to system access" are not defined and could be construed as access from outside an entity's network, access from outside of the Electronic Security Perimeter within which the assets resides, access through an intermediate system, or any other access that is initiated by a vendor and that does not directly access the applicable asset. This potential for ambiguity and confusion could lead to significantly different implementations and interpretations by both registered and regional entities (as applicable). For this reason, GTC/GSOC do not agree that the proposed revisions makes clearer the types of remote sessions that are covered by the standards. GTC/GSOC further reiterate our previous comments regarding the unsupported addition of PACS to this requirement.		
Likes 0		
Dislikes 0		

Denise Sanchez - Denise Sanchez On Behalf of: Glen Allegranza, Imperial Irrigation District, 1, 6, 5, 3; Jesus Sammy Alcaraz, Imperial rrigation District, 1, 6, 5, 3; Tino Zaragoza, Imperial Irrigation District, 1, 6, 5, 3; - Denise Sanchez		
Answer No		
Document Name		
Comment		
To enhance general applicability to all vendor-initiated remote access, suggest: "Coordination of controls for all vendor-initiated remote access." We believe that specifying and breaking down remote access types (e.g. "system to system") adds confusion and decreases clarity with respect to securing all manners of vendor-initiated remote access.		
ikes 0		
Dislikes 0		
Response		
Barry Jones - Barry Jones On Behalf of: Erin Green, Western Area Power Administration, 1, 6; sean erickson, Western Area Power Administration, 1, 6; - Barry Jones		
Answer No		
Document Name		
Comment		
Without a definition of what System to System remote access is, the changes requested do nothing to clarify anything different that was written in version 2. A definition for system to system remote access needs to be created and added to the Glossary of terms. While this revision clarifies the considerations for remote access controls in supply chain risk management plans and processes, the use of the word "initiated" may have unintended consequences that defy the security intent. The goal is to implement controls that prevent or mitigate the risk of unauthorized access (whether interactive or system-to-system) by a remote vendor then the initiator of that established session is moot. It is the "presence of" the established session that is the risk regardless of which end initiated it once the Registered Entity determines that vendor should no longer have that access. Recommend language that focuses on the risk itself. Similar, the phrase "vendor remote access" is ambiguous because it is undefined and the word "access" is broad. As a result, emerging interpretations are blending the concepts of "information sharing" sessions (CIP-011) with the concepts of BCS "access" sessions (CIP-005 & CIP-007). This is evident where established read only sessions between a Registered Entity and the vendor are included as "vendor remote access." Recommend language to exclude established non-persistent read only sessions (i.e. WebEx) from being considered "access" to applicable systems to prevent CIP-011 from creeping into CIP-013 where the scope is supposed to be limited to high and medium impact		
BES Cyber Systems and their associated EACMS and PACS.		
ikes 0		
Dislikes 0		
Response		

Sandra Shaffer - Berkshire Hathaway - PacifiCorp - 6		
Answer	No	
Document Name		
Comment		
PacifiCorp supports the notion that vendor-initiated remote access should be considered. We feel that the standard language needs to address capability versus intent of the remote access. Meaning, if the intent of the remote access is to perform operational activities on a BES Cyber System, then that vendor initiated remote access is in-scope for this requirement. This kind of remote access can be contemplated during contract scoping discussions. If a vendor has the capability of implementing changes on a BCS shifts because the vendor is participating in an activity where control of the user's computer could be granted to the vendor (WebEx for example), then this isn't classified as vendor-initiated remote access with regards to the objective of the standard. We recommend continuing to use the term Interactive Remote Access to address the remote access scoping issues related to the current version proposed.		
Likes 0		
Dislikes 0		
Response		
Wayne Guttormson - SaskPower - 1		
Answer	No	
Document Name		
Comment		
Support the MRO-NSRF comments.		
Likes 0		
Dislikes 0		
Response		
Teresa Cantwell - Lower Colorado River	Authority - 5, Group Name LCRA Compliance	
Answer	No	
Document Name		
Comment		
The changes to the SCRM Standards expanded remote sessions. In the proposed version, "vendor-initiated remote access sessions" has been added. This creates some confusion on what "vendor-initiated" actually is. It would be beneficial to leverage language of Interactive Remote Access such as "Remote access originates from a Cyber Asset that is not an Intermediate System and not located within any of the Responsible Entity's Electronic Security Perimeter(s) or at a defined Electronic Access Point (EAP)".		

Likes 0

Dislikes 0	
Response	
Roger Fradenburgh - Roger Fradenburgh	n On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh
Answer	No
Document Name	
Comment	
N&ST does not agree that the desired clarit	y has been achieved. N&ST recommends simplifying Part 1.2.6 to read:
"Coordination of controls for vendor-initiated	d remote access to applicable systems."
Likes 0	
Dislikes 0	
Response	
Andy Fuhrman - Andy Fuhrman On Beha	alf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman
Answer	No
Document Name	
Comment	
MPC supports comments submitted by the	MRO NERC Standards Review Forum.
Likes 0	
Dislikes 0	
Response	
Quintin Lee - Eversource Energy - 1, Gro	Pup Name Eversource Group
Answer	No
Document Name	
Comment	
We recommend that any changes to CIP-005 need to be consistent with changes here. CIP-005 moved system-to-system from the Requirements to the Measures, while CIP-013 leaves system-to-system in the Requirements. We recommend consistency between these Standards.	

Likes 0		
Dislikes 0		
Response		
Carl Pineault - Hydro-Qu?bec Production	n - 5	
Answer	No	
Document Name		
Comment		
We recommend that any changes to CIP-00	05 need to be consistent with changes here.	
CIP-005 moved system-to-system from the Requirements to the Measures, while CIP-013 leaves system-to-system in the Requirements. We recommend consistency between these Standards.		
Likes 0		
Dislikes 0		
Response		
Lana Smith - San Miguel Electric Cooper	ative, Inc 5	
Answer	No	
Document Name		
Comment		
CIP-005 moved system-to-system from the	Requirements to the Measures, while CIP-013 leaves system-to-system in the Requirements	
We recommend consistency between these Standards and defining terms such as "interactive remote access" and "remote access".		
Likes 0		
Dislikes 0		
Response		
Gerry Adamski - Cogentrix Energy Power Management, LLC - 5		
Answer	No	
Document Name		
Comment		

We do not agree that the proposed language clearly defines the intended types of vendor remote access.

First, we do not agree that Interactive Remote Access vendor sessions should be treated differently than internal sessions.

Second, Part 1.2.6 (ii) specifies system-to-system remote access but the language is not bound to vendors. The requirement could be interpreted to include all system-system remote access, vendor or internal.

Likes 0		
Dislikes 0		
Response		
Pamela Hunter - Southern Company - Southern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company		
Answer	No	
Document Name		
Comment		
Southern does not agree with the reconstructed wording. The updated text causes further confusion from the original. During the Webex it was discussed that IRA and system-to-system are sub-sets of vendor remote access. To ensure clarity, Southern would like the SDT to consider the following possible rewording: "Coordination of controls for vendor-initiated (i) Interactive Remote Access, and (ii) system-to-system remote access to BES Cyber Systems. Another requirement for consideration would be to add the following, "1.2.7 Coordination of controls for vendor-initiated remote access (interactive user access and system-to-system access) to applicable EACMS and PACS.		
Likes 0		
Dislikes 0		
Response		
John Galloway - John Galloway On Behalf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway		
Answer	No	
Document Name		
Comment		
ISO-NE recommends review of the proposed CIP-005-3 changes to ensure consistency.		
Likes 0		
Dislikes 0		
Response		
Kevin Salsbury - Berkshire Hathaway - NV Energy - 5		

Answer	No	
Document Name		
Comment		
NV Energy supports the notion that vendor-initiated remote access should be considered in CIP-013-2 R1, P1.2.6; however, we feel that the standard language needs to address the capability of the vendor while having access versus the intent of the vendor's remote access. Meaning, if the intent of the remote access is to perform operational activities on a BES Cyber System, then that vendor initiated remote access is in-		
scope for this requirement. This kind of ren	note access can be contemplated during contract scoping discussions.	
However, there is an ambiguity when it comes to the remote sharing applications between Entity and Vendor (i.e. webEX, Skype, Zoom, etc.), in that during these remote sharing events, a user's (Entity) computer can grant to the vendor control of their screen. NV Energy believes that this event isn't classified as vendor-initiated remote access with regards to the objective of the standard. We recommend continuing to use the term Interactive Remote Access to address the remote access scoping issues related to the current version proposed.		
Likes 0		
Dislikes 0		
Response		
LaTroy Brumfield - American Transmissi	on Company, LLC - 1	
Answer	No	
Document Name		
Comment		
The use of the word "initiated" may have unintended consequences that defy the security intent. If the goal is to implement controls that prevent or mitigate the risk of unauthorized access (whether interactive or system-to-system) by a remote vendor then the initiator of that established session is moot. It is the "presence of" the established session that is the risk regardless of which end initiated it once the Registered Entity determines that vendor should no longer have that access. ATC requests consideration of alternative language that focuses on the risk itself. Additionally, the phrase "vendor remote access" is ambiguous because it is undefined and the word "access" is broad. As a result, emerging interpretations are blending the concepts of "information sharing" sessions (CIP-011) with the concepts of BCS "access" sessions (CIP-005 & CIP-007). Consequently, established read only sessions between a Registered Entity and the vendor are being lumped into the "vendor remote access" bucket. ATC requests consideration of qualifying language to exclude established non-persistent read only sessions (i.e. WebEx) from being considered "access" to applicable systems to prevent CIP-011 from creeping into CIP-013 where the scope is supposed to be limited to high and medium impact BES Cyber Systems and their associated EACMS and PACS		
Likes 0		
Dislikes 0		
Response		
Tho Tran - Tho Tran On Behalf of: Lee Maurer, Oncor Electric Delivery, 1; - Tho Tran		
Answer	No	

Document Name		
Comment		
While the SDT does a good job in reconstructing the wording, it only addresses "vendor" and "system-to-system" access. Remote access to BES Cyber Assets and Systems can be granted by the entity to not only its employees, but to its vendors and contractors, separate and outside from access granted to other vendors or systems.		
Likes 0		
Dislikes 0		
Response		
William Winters - Con Ed - Consolidated	Edison Co. of New York - 5	
Answer	No	
Document Name		
Comment		
	05 need to be consistent with changes here. Requirements to the Measures, while CIP-013 leaves system-to-system in the Requirements. We andards.	
Response		
Peter Brown - Invenergy LLC - 5 - MRO,V	VECC,Texas RE,NPCC,SERC,RF	
Answer	No	
Document Name		
Comment		
It is better to use the defined terms that are used throughout the standards. Using "remote access" instead of "Interactive Remote Access" implies what is being addressed in this requirement different than Interactive Remote Access in ways other than being vendor-initiated. Also, the source of initiation is not clear with system-system remote access, but if a vendor is compromised, any system-to-system remote access with that vendor should be terminated without regard to who initiated it. The original language is better.		
Likes 0		
Dislikes 0		
Response		

Holly Chaney - Snohomish County PUD No. 1 - 3, Group Name SNPD Voting Members		
Answer	No	
Document Name		
Comment		
To enhance general applicability to all vendor-initiated remote access, suggest: "Coordination of controls for all vendor-initiated remote access." We believe that specifying and breaking down remote access types (e.g. "system to system") adds confusion and decreases clarity with respect to securing all manners of vendor-initiated remote access.		
Likes 1	Public Utility District No. 1 of Snohomish County, 4, Martinsen John	
Dislikes 0		
Response		
Jennie Wike - Jennie Wike On Behalf of: Hien Ho, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; John Merrell, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; Terry Gifford, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; - Jennie Wike		
Answer	No	
Document Name		
Comment		
The changes to CIP-013-2 Part 1.2.6 appear to have had the opposite effect. Now there is no clarity about what a vendor-initiated remote access session is. Does "access" refer to read-only access? Or does "access" only refer to control? What is the meaning of "remote" in this situation? "Remote" to an applicable system? How is that clarified?		
Additionally, it appears that (ii) system-to-system remote access, is now just a subset of (i) remote access.		
Tacoma Power does not support these changes to CIP-013 and recommends creating one or more defined terms to help provide clarity in this situation.		
Likes 0		
Dislikes 0		
Response		
Andrea Jessup - Bonneville Power Administration - 1,3,5,6 - WECC		
Answer	No	
Document Name		
Comment		

BPA believes "Coordination of controls" remains somewhat ambiguous. Inclusion of "vendor-initiated" for both remote access and system-to-system remote access is somewhat redundant and confusing. BPA proposes the following:

1.2.6. Coordination of remote access controls for vendor personnel or systems accessing BES Cyber Systems ESP/ESZ to include; reasons and requirements for remote access, periodicity of access (temporary or permanent), methods of authentication, and revocation processes for personnel.

Likes 0		
Dislikes 0		
Response		
Chris Wagner - Santee Cooper - 1, Group	Name Santee Cooper	
Answer	No	
Document Name		
Comment		
then the wording used in CIP-005-7 should	013-2 Requirement R1, Part 1.2.6 that all types of vendor-initiated remote access need to be considered be consistent with the wording used in CIP-013 R1, Part 1.2.6. In CIP-005 "vendor initiated remote access" access" and system to system remote access is used in CIP-013 R1, Part 1.2.6.	
Likes 0		
Dislikes 0		
Response		
Matthew Nutsch - Seattle City Light - 1,3,4,5,6 - WECC		
Answer	No	
Document Name		
Comment		
Seattle City Light concurs with the comments provided by Snohomish PUD		
Likes 0		
Dislikes 0		
Response		
Romel Aquino - Edison International - So	outhern California Edison Company - 3	
Answer	No	
Document Name		

Comment		
Please see comments submitted by Edison	Electric Institute	
Likes 0		
Dislikes 0		
Response		
Dana Klem - MRO - 1,2,3,4,5,6 - MRO, Gro	Dup Name MRO NSRF	
Answer	No	
Document Name		
Comment		
These comments represent the MRO NSRF membership as a whole but would not preclude members from submitting individual comments While this revision clarifies the considerations for remote access controls in supply chain risk management plans and processes, the use of the word "initiated" may have unintended consequences that defy the security intent. The goal is to implement controls that prevent or mitigate the risk of unauthorized access (whether interactive or system-to-system) by a remote vendor then the initiator of that established session is moot. It is the "presence of" the established session that is the risk regardless of which end initiated it once the Registered Entity determines that vendor should no longer have that access. Recommend language that focuses on the risk itself. Similar, the phrase "vendor remote access" is ambiguous because it is undefined and the word "access" is broad. As a result, emerging interpretations are blending the concepts of "information sharing" sessions (CIP-011) with the concepts of BCS "access" to applicable systems to prevent CIP-011 from creeping into CIP-013 where the scope is supposed to be limited to high and medium impact BES Cyber Systems and their associated EACMS and PACS. Likes 0 Dislikes 0 Response		
-		
Steven Rueckert - Western Electricity Coordinating Council - 10		
Answer	No	
Document Name		
Comment		
CIP-013-2 R1, Part 1.2.6 requires one or more processes used in procuring BES Cyber Systems, and their associated EACMS and PACS, that address the coordination of controls for vendor-initiated (i) remote access, and (ii) system-to-system remote access. This language provides the two basic types of vendor remote access; however, it lacks the detail provided in CIP-005-7 R3, Parts 3.1 and 3.2, which may be required to effectively assess		

risk. Further, as discussed in the previous comments, the use of the term "vendor-initiated" is troubling because it should not matter whether the vendor

or the entity initiates the connection. By considering only vendor-initiated connections, the language omits some vendor remote access connections, and therefore does not meet the security objective of the Requirement.		
Likes 0		
Dislikes 0		
Response		
Kjersti Drott - Tri-State G and T Associat	ion, Inc 1	
Answer	No	
Document Name		
Comment		
Tri-State does not agree with the changes; we believe the CIP-013-1 language is more clear and comprehensive. The previous CIP-013-1 wording • "Coordination of controls for (i) vendor-initiated Interactive Remote Access, and (ii) system-to-system remote access with a vendor(s)" is more clear and more comprehensive than the proposed CIP-013-2 wording • "Coordination of controls for vendor-initiated (i) remote access, and (ii) system-to-system remote access." CIP-013-2's "Coordination of controls for vendor-initiated system-to-system remote access" seems to exclude system-to-system remote access that's internally-initiated, where a system inside the ESP automatically creates a remote access session with a vendor's system in the vendor's network.		
Dislikes 0		
Response		
Dennis Sismaet - Northern California Power Agency - 6		
Answer	No	
Document Name		
Comment		

This project should be canceled or at least placed on hold until the following occur:

1. DOE issues their report detailing how they will proceed with BPS Supply Chain requirements in accordance with the 2020 Presidential Executive Order. It is not prudent for NERC to continue spending inordinate amount of valued Industry stakeholders' time on this endeavor which will likely change in the near future as a result of DOE's efforts. Regardless, FERC will probably immediately order project changes anyway, even if Industry approves the proposal as is.

2. NERC provides a cost proposal, first and that it be accurate and reasonable. Future SARs should not be allowed through the Standards Committee without a cost estimate. All stakeholders need to know the estimated cost prior to SAR posting and deserve to know the cost of what they are voting on.

3. FERC levels the playing field by ordering BAs to modify their Tariffs, and compensate GO/GOPs for fixed NERC Compliance Costs. NERC's response to SAR page three Market Principle one was inaccurate. California ISO (CAISO) Market rules, and maybe other ISOs too, do not allow GOPs to recover fixed costs for unfunded FERC/NERC reliability mandates. Non-GOP Market Participants have no said obligations nor costs. This is an extremely unfair business practice especially considering the BAs/ISOs are compensated for, allowed to recover, 100% of their NERC/FERC fixed compliance costs. Additionally, this results in unfair Market competitive advantages for non-GOP generator Market Participants in the CAISO BA to the detriment, disadvantage of GOPs like NCPA.

4. Finally, future submittals/proposals should not be sent for balloting until the CIP STD not only develops proposed standard revisions, but also develop guidance and audit approach measures, that Auditors shall be required to follow, which should be balloted/commented on at the same time as the proposed standard revisions. No more, after-the-fact, Standards interruptions by FERC, NERC, and/or REs that were not approved by all Stakeholders.

Likes 0		
Dislikes 0		
Response		
Erick Barrios - New York Power Authority - 6		
Answer	No	
Document Name		
Comment		
We recommend that any changes to CIP-005 need to be consistent with changes here. CIP-005 moved system-to-system from the Requirements to the Measures, while CIP-013 leaves system-to-system in the Requirements. We recommend consistency between these Standards.		
Likes 0		
Dislikes 0		
Response		
Scott Tomashefsky - Northern California	Power Agency - 4	
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Rachel Coyne - Texas Reliability Entity, I		
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Answer	Yes	
Document Name		
Comment		
Texas RE agrees with clarifying that all types of vendor-initiated remote access needs to be considered. Texas RE recommends that the term "vendor" be defined in the NERC Glossary. Although it is defined in the Supplemental Material, that material is not part of the standard and is not enforceable. There is still confusion on who and what is a vendor.		
Likes 0		
Dislikes 0		
Response		
Mark Gray - Edison Electric Institute - NA	A - Not Applicable - NA - Not Applicable	
Answer	Yes	
Document Name		
Comment		
EEI supports the notion that all vendor-initia	ated remote access should be considered.	
Likes 0		
Dislikes 0		
Response		
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; Stephanie Huffman, Cleco Corporation, 6, 5, 1, 3; - Clay Walker		
Answer	Yes	
Document Name		
Comment		
EEI supports the notion that all vendor-initiated remote access should be considered.		
Likes 0		
Dislikes 0		
Response		

	If of: Allen Klassen, Westar Energy, 1, 6, 5, 3; Derek Brown, Westar Energy, 1, 6, 5, 3; James McBee,
Westar Energy, 1, 6, 5, 3; Marcus Moor, V Answer	Vestar Energy, 1, 6, 5, 3; - Douglas Webb, Group Name Westar-KCPL Yes
Document Name	
Comment	
Evergy (Westar Energy and Kanas City Pov	wer & Light Co.) supports the position that all vendor-initiated remote access needs to be considered.
Likes 0	
Dislikes 0	
Response	
Bruce Reimer - Manitoba Hydro - 1	
Answer	Yes
Document Name	
Comment	
We agree with this revision that clarifies ver	ndor-initiated remote access controls in supply chain risk management plans and processes.
Likes 0	
Dislikes 0	
Response	
Masuncha Bussey - Duke Energy - 1,3,5,	6 - MRO,Texas RE,SERC, Group Name Duke Energy
Answer	Yes
Document Name	
Comment	
Duke Energy agrees that the reconstructed	the wording clarifies that all types of vendor-initiated remote access needs to be considered.
Likes 0	
Dislikes 0	
Response	
Maryanne Darling-Reich - Black Hills Co	rporation - 1,3,5,6 - MRO,WECC

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Dmitriy Bazylyuk - NiSource - Northern I	ndiana Public Service Co 3, Group Name NIPSCO
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
Jodirah Green - ACES Power Marketing - Answer	• 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Standard Collaborations Yes
Answer	
Answer Document Name	
Answer Document Name	
Answer Document Name Comment	
Answer Document Name Comment Likes 0	
Answer Document Name Comment Likes 0 Dislikes 0 Response	Yes
Answer Document Name Comment Likes 0 Dislikes 0	Yes
Answer Document Name Comment Likes 0 Dislikes 0 Response	Yes
Answer Document Name Comment Likes 0 Dislikes 0 Response Tim Womack - Puget Sound Energy, Inc. Answer Document Name	Yes
Answer Document Name Comment Likes 0 Dislikes 0 Response Tim Womack - Puget Sound Energy, Inc. Answer	Yes
Answer Document Name Comment Likes 0 Dislikes 0 Response Tim Womack - Puget Sound Energy, Inc. Answer Document Name	Yes

Dislikes 0		
Response		
Sing Tay - OGE Energy - Oklahoma Gas and Electric Co 6, Group Name OKGE		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Ginette Lacasse - Public Utility District N	lo. 1 of Chelan County - 1, Group Name PUD #1 Chelan	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Meaghan Connell - Public Utility District	No. 1 of Chelan County - 5	
Answer	Yes	
Document Name		
Comment		
	1	
Likes 0		
Dislikes 0		
Response		
Mark Garza - FirstEnergy - FirstEnergy C		
Answer	Yes	

Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Richard Jackson - U.S. Bureau of Reclan	nation - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Sean Bodkin - Dominion - Dominion Res	ources, Inc 6, Group Name Dominion	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Eli Rivera - CenterPoint Energy Houston	Electric, LLC - NA - Not Applicable - Texas RE	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		

Response		
Tony Skourtas - Los Angeles Departmen	t of Water and Power - 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Karie Barczak - DTE Energy - Detroit Edi	son Company - 3, Group Name DTE Energy - DTE Electric	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Anthony Jablonski - ReliabilityFirst - 10		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kelsi Rigby - APS - Arizona Public Servio	ce Co 5	
Answer	Yes	
Document Name		

Comment	
Likes 0	
Dislikes 0	
Response	
Randy Cleland - GridLiance Holdco, LP -	1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kevin Conway - Public Utility District No	. 1 of Pend Oreille County - 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer	
Document Name	
Comment	
ITC is Abstaining	
Likes 0	
Dislikes 0	

Response	
Linn Oelker - PPL - Louisville Gas and El	ectric Co 6
Answer	
Document Name	
Comment	
I support EEI's comments.	
Likes 0	
Dislikes 0	
Response	
Neil Shockey - Edison International - Sou	ithern California Edison Company - 5
Answer	
Document Name	
Comment	
Please see comments submitted by Edison	Electric Institute
Likes 0	
Dislikes 0	
Response	
Kenya Streeter - Edison International - So	outhern California Edison Company - 6
Answer	
Document Name	
Comment	
Please see comments submitted by Edison	Electric Institute
Likes 0	
Dislikes 0	
Response	

Marty Hostler - Northern California Power Agency - 5	
Answer	
Document Name	
Comment	
NO. See response to question 7.	
Likes 0	
Dislikes 0	
Response	

5. The SDT is proposing an increase from 12 to 18 month implementation plan in response to industry comment. Do you agree this strikes a balance between appropriate risk mitigation and giving the industry time to implement changes?		
Kevin Conway - Public Utility District No. 1 of Pend Oreille County - 1		
Answer	No	
Document Name		
Comment		
We think 24 months better supports the pro-	cess we have at a small utility with minimal IT resources.	
Likes 0		
Dislikes 0		
Response		
Bruce Reimer - Manitoba Hydro - 1		
Answer	No	
Document Name		
Comment		
Due to the Covid-19 impacts to industry, we suggest considering a 24-month implementation plan.		
Likes 0		
Dislikes 0		
Response		
Dennis Sismaet - Northern California Pov	wer Agency - 6	
Answer	No	
Document Name		
Comment		
T 1.'		

This project should be canceled or at least placed on hold until the following occur:

1. DOE issues their report detailing how they will proceed with BPS Supply Chain requirements in accordance with the 2020 Presidential Executive Order. It is not prudent for NERC to continue spending inordinate amount of valued Industry stakeholders' time on this endeavor which will likely change in the near future as a result of DOE's efforts. Regardless, FERC will probably immediately order project changes anyway, even if Industry approves the proposal as is.

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4. Finally, future submittals/proposals should not be sent for balloting until the CIP STD not only develops proposed standard revisions, but also develop guidance and audit approach measures, that Auditors shall be required to follow, which should be balloted/commented on at the same time as the proposed standard revisions. No more, after-the-fact, Standards interruptions by FERC, NERC, and/or REs that were not approved by all Stakeholders.

Likes 0		
Dislikes 0		
Response		
Dana Klem - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF		
Answer	No	
Document Name		
Comment		
·	membership as a whole but would not preclude members from submitting individual comments virtualization standards under development, and supply chain standards implementation overall, it is mentation plan.	
Likes 0		
Dislikes 0		
Response		
Eli Rivera - CenterPoint Energy Houston	Electric, LLC - NA - Not Applicable - Texas RE	
Answer	No	
Document Name		
Comment		
for high impact and medium impact BES Cy	posed 12-month implementation centers on an assumption that EACMS and PACS vendors are the same ber Systems. This supposition would make it appear that it is a straightforward expansion of existing Supply is not true in all cases. Notably, the high impact (e.g. control center) and medium impact (e.g. substation)	

environments are very different. CEHE believes that such a difference justifies a longer implementation period. CEHE suggests that 18 months is not enough and proposes a 24-month implementation plan instead.	
Likes 0	
Dislikes 0	
Response	
Romel Aquino - Edison International - So	outhern California Edison Company - 3
Answer	No
Document Name	
Comment	
Please see comments submitted by Edison	Electric Institute
Likes 0	
Dislikes 0	
Response	
Richard Jackson - U.S. Bureau of Reclan	nation - 1
Answer	No
Document Name	
Comment	
Reclamation recommends a 24-month imple	ementation plan to allow entities flexibility to determine the appropriate implementation actions.
Likes 0	
Dislikes 0	
Response	
Peter Brown - Invenergy LLC - 5 - MRO,V	VECC,Texas RE,NPCC,SERC,RF
Answer	No
Document Name	
Comment	
These changes are adjustments to existing	standards, and 12 months is plenty of time to implement the changes.

Likes 0		
Dislikes 0		
Response		
Lana Smith - San Miguel Electric Cooper	ative, Inc 5	
Answer	No	
Document Name		
Comment		
Due to the on-going Covid-19 impacts and delay of initial supply chain standards implementation, it is recommended to consider a 24-month implementation plan.		
Likes 0		
Dislikes 0		
Response		
Andy Fuhrman - Andy Fuhrman On Beha	alf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman	
Answer	No	
Document Name		
Comment		
MPC supports comments submitted by the MRO NERC Standards Review Forum.		
Likes 0		
Dislikes 0		
Response		
Wayne Guttormson - SaskPower - 1		
Answer	No	
Document Name		
Comment		
Support the MRO-NSRF comments.		
Likes 0		
Dislikes 0		

Response		
Sandra Shaffer - Berkshire Hathaway - P	acifiCorp - 6	
Answer	No	
Document Name		
Comment		
Due to the development of the virtualization implementation plan.	e standards, and supply chain standards implementation overall, we recommended to consider a 24 month	
Likes 0		
Dislikes 0		
Response		
Barry Jones - Barry Jones On Behalf of: Erin Green, Western Area Power Administration, 1, 6; sean erickson, Western Area Power Administration, 1, 6; - Barry Jones		
Answer	No	
Document Name		
Comment		
Due to the Covid-19 impacts to industry, the virtualization standards under development, and supply chain standards implementation overall, it is recommended to consider a 24 month implementation plan.		
Likes 0		
Dislikes 0		
Response		
Ray Jasicki - Xcel Energy, Inc 1,3,5		
Answer	No	
Document Name		
Comment		
Support the comments of the Edison Electric Institute (EEI)		
Likes 0		
Dislikes 0		

Response		
Darnez Gresham - Berkshire Hathaway Energy - MidAmerican Energy Co 3		
Answer	No	
Document Name		
Comment		
	ease to the implementation plan. However, we recommend consideration of a 24-month implementation or ordinate ongoing efforts of other SDTs that may also impact the supply chain standards.	
Likes 0		
Dislikes 0		
Response		
Terry Harbour - Berkshire Hathaway Energy - MidAmerican Energy Co 1,3		
Answer	No	
Document Name		
Comment		
MidAmerican appreciates the proposed increase to the implementation plan. However, we recommend consideration of a 24-month implementation plan in order to provide time for NERC to coordinate ongoing efforts of other SDTs that may also impact the supply chain standards.		
Likes 0		
Dislikes 0		
Response		
Dmitriy Bazylyuk - NiSource - Northern Indiana Public Service Co 3, Group Name NIPSCO		
Answer	No	
Document Name		
Comment		
funding and process changes that would be	red changes a longer implementation period of 24 months is required. This is necessary to obtain possible necessary.	
Likes 0		

Dislikes 0		
Response		
Scott Tomashefsky - Northern California	Power Agency - 4	
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Masuncha Bussey - Duke Energy - 1,3,5,	6 - MRO,Texas RE,SERC, Group Name Duke Energy	
Answer	Yes	
Document Name		
Comment		
Duke Energy agrees with a longer implementation plan window.		
Likes 0		
Dislikes 0		
Response		
Erick Barrios - New York Power Authorit	y - 6	
Answer	Yes	
Document Name		
Comment		
We agree with the SDT proposal		
Likes 0		
Dislikes 0		
Response		

Matthew Nutsch - Seattle City Light - 1,3,4,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		
Seattle City Light concurs with the comments provided by Snohomish PUD		
Likes 0		
Dislikes 0		
Response		
Holly Chaney - Snohomish County PUD	No. 1 - 3, Group Name SNPD Voting Members	
Answer	Yes	
Document Name		
Comment		
No comments.		
Likes 1	Public Utility District No. 1 of Snohomish County, 4, Martinsen John	
Dislikes 0		
Response		
Tho Tran - Tho Tran On Behalf of: Lee Ma	aurer, Oncor Electric Delivery, 1; - Tho Tran	
Answer	Yes	
Document Name		
Comment		
Oncor supports the 18 month implementation plan.		
Likes 0		
Dislikes 0		
Response		
Kevin Salsbury - Berkshire Hathaway - N	V Energy - 5	
Answer	Yes	

Document Name		
Comment		
through Project 2016-02, and the concurren	implementation timeline is acceptable; however, with the expectation of revisions to the CIP Standards at work required to implement these future changes, NV Energy would request that NERC look to further re Entities have enough time to implement the concurrent revisions.	
Likes 0		
Dislikes 0		
Response		
Pamela Hunter - Southern Company - So	outhern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company	
Answer	Yes	
Document Name		
Comment		
Southern agrees with the proposed 18-mon	th implementation plan.	
Likes 0		
Dislikes 0		
Response		
	If of: Allen Klassen, Westar Energy, 1, 6, 5, 3; Derek Brown, Westar Energy, 1, 6, 5, 3; James McBee, Nestar Energy, 1, 6, 5, 3; - Douglas Webb, Group Name Westar-KCPL	
Answer	Yes	
Document Name		
Comment		
Evergy (Westar Energy and Kanas City Power & Light Co.) supports the 18-month implementation plan and the extended implementation period appropriate when considering the expanded applicability of the Standards.		
Likes 0		
Dislikes 0		
Response		
Greg Davis - Georgia Transmission Corporation - 1		
Answer	Yes	

Document Name		
Comment		
Although 24 months would be more appropriate appropria	riate, GTC/GSOC appreciate the SDT's consideration of previous comments.	
Likes 0		
Dislikes 0		
Response		
Clay Walker - Clay Walker On Behalf of: Hirchak, Cleco Corporation, 6, 5, 1, 3; Ste	John Lindsey, Cleco Corporation, 6, 5, 1, 3; Maurice Paulk, Cleco Corporation, 6, 5, 1, 3; Robert ephanie Huffman, Cleco Corporation, 6, 5, 1, 3; - Clay Walker	
Answer	Yes	
Document Name		
Comment		
EEI supports the 18-month implementation	plan.	
Likes 0		
Dislikes 0		
Response		
Leonard Kula - Independent Electricity S	ystem Operator - 2	
Answer	Yes	
Document Name		
Comment		
IESO agrees with the increase of the implementation period from 12 moths to 18 months.		
IESO would prefer 24 months to take budget cycles into account. Although the we acknowledges that EACMS and/or PACS are as important to protect as the BCS in line with the FERC Order, we recommend to wait on extending the program to EACMS and or PACS until after the upcoming CIP-005-6, CIP-010-3 and CIP-013-1 standards have been in effect for at least two years to allow for the processes and controls to mature and to obtain any key learnings from implementing these protections and from audit experiences, including findings and areas of concerns identified by the auditors.		
Likes 0		
Dislikes 0		
Response		
Mark Gray - Edison Electric Institute - NA	- Not Applicable - NA - Not Applicable	

Answer	Yes	
Document Name		
Comment		
EEI supports the 18-month implementation plan.		
Likes 0		
Dislikes 0		
Response		
Andrea Barclay - Georgia System Operat	tions Corporation - 4	
Answer	Yes	
Document Name		
Comment		
Although 24 months would be more approp	riate, GSOC and GTC appreciates the SDT's consideration of previous comments.	
Likes 0		
Dislikes 0		
Response		
Bobbi Welch - Midcontinent ISO, Inc 2,	Group Name ISO/RTO Council Standards Review Committee 2019-03 Supply Chain Risks_June 2020	
Answer	Yes	
Document Name		
Comment		
The IRC SRC supports the SDT changes to extend the implementation timeframe from 12 to 18 months. In addition, the IRC SRC requests the SDT consider an additional extension of the implementation timeframe to 24 months to accommodate budget cycles. Although the IRC SRC acknowledges that EACMS and/or PACS are important to protect, we recommend NERC wait to extend the program to EACMS and/or PACS until after the CIP-005-6, CIP-010-3 and CIP-013-1 standards have been in effect for at least two years. This will allow for the processes and controls to mature and for Reliability Entities to obtain any key learnings from implementing these protections and from audit experiences, including findings and areas of concerns identified by the auditors. At this time, it is unknown whether the existing supply chain requirements will have a tangible improvement in supply chain security, so the IRC SRC recommends any expansion in the scope of requirements be deferred until more is known.		
Likes 0		
Dislikes 0		

Response		
Monika Montez - California ISO - 2 - WEC	C	
Answer	Yes	
Document Name		
Comment		
CAISO is supporting the IRC SRC Comments as follows:		
The IRC SRC supports the SDT changes to extend the implementation timeframe from 12 to 18 months. In addition, the IRC SRC requests the SDT consider an additional extension of the implementation timeframe to 24 months to accommodate budget cycles.		
Although the IRC SRC acknowledges that EACMS and/or PACS are important to protect, we recommend NERC wait to extend the program to EACMS and/or PACS until after the CIP-005-6, CIP-010-3 and CIP-013-1 standards have been in effect for at least two years. This will allow for the processes and controls to mature and for Reliability Entities to obtain any key learnings from implementing these protections and from audit experiences, including findings and areas of concerns identified by the auditors.		
	ing supply chain requirements will have a tangible improvement in supply chain security, so the IRC SRC f requirements be deferred until more is known.	
Likes 0		
Dislikes 0		
Response		
Randy Cleland - GridLiance Holdco, LP -	1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kelsi Rigby - APS - Arizona Public Service Co 5		
Answer	Yes	
Document Name		
Comment		

Likes 0	
Dislikes 0	
Response	
Anthony Jablonski - ReliabilityFirst - 10	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kjersti Drott - Tri-State G and T Associat	ion, Inc 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity Co	ordinating Council - 10
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Karie Barczak - DTE Energy - Detroit Edis	son Company - 3, Group Name DTE Energy - DTE Electric

Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Tony Skourtas - Los Angeles Departmen	t of Water and Power - 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Sean Bodkin - Dominion - Dominion Res	ources, Inc 6, Group Name Dominion	
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		
Andrea Jessup - Bonneville Power Administration - 1,3,5,6 - WECC		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Mark Garza - FirstEnergy - FirstEnergy C	orporation - 4, Group Name FE Voter	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
William Winters - Con Ed - Consolidated	Edison Co. of New York - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Meaghan Connell - Public Utility District No. 1 of Chelan County - 5		
Answer	Yes	

Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
LaTroy Brumfield - American Transmiss	ion Company, LLC - 1	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
John Galloway - John Galloway On Beha	alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Ginette Lacasse - Public Utility District No. 1 of Chelan County - 1, Group Name PUD #1 Chelan		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		

Response		
Gerry Adamski - Cogentrix Energy Powe	r Management, LLC - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Carl Pineault - Hydro-Qu?bec Production	ז - 5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Sing Tay - OGE Energy - Oklahoma Gas and Electric Co 6, Group Name OKGE		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Quintin Lee - Eversource Energy - 1, Gro	up Name Eversource Group	
Answer	Yes	
Document Name		

Comment		
Likes 0		
Dislikes 0		
Response		
Roger Fradenburgh - Roger Fradenburgh	n On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Teresa Cantwell - Lower Colorado River	Authority - 5, Group Name LCRA Compliance	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Denise Sanchez - Denise Sanchez On Behalf of: Glen Allegranza, Imperial Irrigation District, 1, 6, 5, 3; Jesus Sammy Alcaraz, Imperial Irrigation District, 1, 6, 5, 3; Tino Zaragoza, Imperial Irrigation District, 1, 6, 5, 3; - Denise Sanchez		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		

Response		
Tim Womack - Puget Sound Energy, Inc.	- 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
James Baldwin - Lower Colorado River A	Authority - 1,5	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
David Jendras - Ameren - Ameren Servio	ses - 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC Regional Standards Committee	
Answer	Yes	
Document Name		

Comment		
Likes 0		
Dislikes 0		
Response		
Rachel Coyne - Texas Reliability Entity, I	nc 10	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Gladys DeLaO - CPS Energy - 1,3,5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Tyson Archie - Platte River Power Authority - 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		

Jodirah Green - ACES Power Marketing	- 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Standard Collaborations	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Maryanne Darling-Reich - Black Hills Co	rporation - 1,3,5,6 - MRO,WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Joshua Andersen - Salt River Project - 1	,3,5,6 - WECC	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Constantin Chitescu - Ontario Power Ge	Constantin Chitescu - Ontario Power Generation Inc 5	
Answer	Yes	
Document Name		
Comment		

Likes 0		
Dislikes 0		
Response		
Marty Hostler - Northern California Powe	r Agency - 5	
Answer		
Document Name		
Comment		
NO. See response to question 7.		
Likes 0		
Dislikes 0		
Response		
Kenya Streeter - Edison International - Se	outhern California Edison Company - 6	
Answer		
Document Name		
Comment		
Please see comments submitted by Edison Electric Institute		
Likes 0		
Dislikes 0		
Response		
Neil Shockey - Edison International - Southern California Edison Company - 5		
Answer		
Document Name		
Comment		
Please see comments submitted by Edison	Electric Institute	
Likes 0		

Dislikes 0	
Response	
Linn Oelker - PPL - Louisville Gas and El	ectric Co 6
Answer	
Document Name	
Comment	
I support EEI's comments.	
Likes 0	
Dislikes 0	
Response	
Gail Elliott - Gail Elliott On Behalf of: Mic	hael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott
Answer	
Document Name	
Comment	
ITC is Abstaining	
Likes 0	
Dislikes 0	
Response	

6. The SDT proposes that the modifications in CIP-005-7, CIP-010-4 and CIP-013-2 meet the FERC directives 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.		
Joshua Andersen - Salt River Project - 1,	3,5,6 - WECC	
Answer	No	
Document Name		
Comment		
SRP would first like to see the definitions the	at are outlined in CIP-005 and CIP-013 with more clarity and a better definition for each.	
Likes 0		
Dislikes 0		
Response		
Monika Montez - California ISO - 2 - WEC		
Answer	No	
Document Name		
Comment		
CAISO is supporting the IRC SRC Comments as follows: Although the IRC SRC acknowledges that EACMS and PACS are important to protect, we recommend NERC wait to extend the program to EACMS and/or PACS until after the CIP-005-6, CIP-010-3 and CIP-013-1 standards have been in effect for at least two years. This will allow for the processes and controls to mature and for Reliability Entities to obtain any key learnings from implementing these protections and from audit experiences, including findings and areas of concerns identified by the auditors. At that time, the IRC SRC also proposes that NERC issue a CIP-013-1 survey amongst the industry to collect recommendations for improvement of the industry's supply chain security standard. While the IRC SRC believes it is good business practice to apply supply chain security controls to all Cyber Assets in the enterprise, it also believes that regulatory requirements should not be applied to additional Cyber Assets. When a regulatory compliance requirement is expanded to include additional assets in the enterprise, it increases the cost of implementation and maintenance. At times, this can be dramatic, to a point where it may be detrimental to a company's overall security posture, thereby ultimately increasing the security risk to the company. Therefore, the IRC SRC opposes adding EACMS or PACS to the supply chain requirement as this requirement has not yet proven to be effective as it stands.		
Likes 0		
Dislikes 0		
Response		
Dmitriy Bazylyuk - NiSource - Northern In	ndiana Public Service Co 3, Group Name NIPSCO	
Answer	No	

Document Name		
Comment		
In order to properly evaluate and fund required changes a longer implementation period of 24 months is required. This is necessary to obtain possible funding and process changes that would be necessary.		
Likes 0		
Dislikes 0		
Response		
Bobbi Welch - Midcontinent ISO, Inc 2,	Group Name ISO/RTO Council Standards Review Committee 2019-03 Supply Chain Risks_June 2020	
Answer	No	
Document Name		
Comment		
and controls to mature and for Reliability Entities to obtain any key learnings from implementing these protections and from audit experiences, including findings and areas of concerns identified by the auditors. At that time, the IRC SRC also proposes that NERC issue a CIP-013-1 survey amongst the industry to collect recommendations for improvement of the industry's supply chain security standard. While the IRC SRC believes it is good business practice to apply supply chain security controls to all Cyber Assets in the enterprise, it also believes that regulatory requirements should not be applied to additional Cyber Assets. When a regulatory compliance requirement is expanded to include additional assets in the enterprise, it increases the cost of implementation and maintenance. At times, this can be dramatic, to a point where it may be detrimental to a company's overall security posture, thereby ultimately increasing the security risk to the company. Therefore, the IRC SRC opposes adding EACMS or PACS to the supply chain requirement as this requirement has not yet proven to be effective as it stands.		
Likes 0		
Dislikes 0		
Response		
Gladys DeLaO - CPS Energy - 1,3,5		
Answer	No	
Document Name		
Comment		
It's difficult to determine the cost since CIP-013 is not effective and no studies have been conducted to determine the cost to implement across the industry. Including PACS and EACMS adds another layer to consider once the BCS' Supply Chain Risk Management requirements are implemented. The scope continues to expand without consideration to the industry as a whole to first achieve the risk mitigations for the initial		

standards and without studies to determine the effectiveness of the Supply Chain Risk Management standards for BCS'. Unless small entities contract with 3rd parties for the vendor risk assessments required, what is their alternative since vendors usually do not respond to their cyber security

adding additional costs.	fectiveness of the first CIP-013 standards before adding more systems to the requirements and potentially	
Likes 0		
Dislikes 0		
Response		
Andrea Barclay - Georgia System Operat	ions Corporation - 4	
Answer	No	
Document Name		
Comment		
While GSOC and GTC acknowledges the current flexibility in implementation that the CIP reliability standards provide, the inclusion of PACS in the CIP reliability standards would not be cost-effective as it will provide no direct benefits to the reliability of the BES. Further, as these systems are not included in the FERC directive, it is certainly not cost-effective to unnecessarily include them.		
Likes 0		
Dislikes 0		
Response		
Terry Harbour - Berkshire Hathaway Ene	rgy - MidAmerican Energy Co 1,3	
Terry Harbour - Berkshire Hathaway Ene Answer	rgy - MidAmerican Energy Co 1,3 No	
Answer		
Answer Document Name Comment The burden on the industry will increase wit		
Answer Document Name Comment The burden on the industry will increase wit	No h expanding the scope of these requirements to include EACMS and PACS. The cost of this burden cannot	
Answer Document Name Comment The burden on the industry will increase wit be credibly estimated at this time. Costs and	No h expanding the scope of these requirements to include EACMS and PACS. The cost of this burden cannot	
Answer Document Name Comment The burden on the industry will increase wit be credibly estimated at this time. Costs and Likes 0	No h expanding the scope of these requirements to include EACMS and PACS. The cost of this burden cannot	
Answer Document Name Comment The burden on the industry will increase wit be credibly estimated at this time. Costs and Likes 0 Dislikes 0 Response	No h expanding the scope of these requirements to include EACMS and PACS. The cost of this burden cannot d benefits need to be considered for both the industry and vendors.	
Answer Document Name Comment The burden on the industry will increase wit be credibly estimated at this time. Costs and Likes 0 Dislikes 0	No h expanding the scope of these requirements to include EACMS and PACS. The cost of this burden cannot d benefits need to be considered for both the industry and vendors. nergy - MidAmerican Energy Co 3	
Answer Document Name Comment The burden on the industry will increase with be credibly estimated at this time. Costs and Likes 0 Dislikes 0 Response Darnez Gresham - Berkshire Hathaway E Answer	No h expanding the scope of these requirements to include EACMS and PACS. The cost of this burden cannot d benefits need to be considered for both the industry and vendors.	
Answer Document Name Comment The burden on the industry will increase wit be credibly estimated at this time. Costs and Likes 0 Dislikes 0 Response Darnez Gresham - Berkshire Hathaway E	No h expanding the scope of these requirements to include EACMS and PACS. The cost of this burden cannot d benefits need to be considered for both the industry and vendors. nergy - MidAmerican Energy Co 3	

The burden on the industry will increase wit be credibly estimated at this time. Costs and	n expanding the scope of these requirements to include EACMS and PACS. The cost of this burden cannot d benefits need to be considered for both the industry and vendors.	
Likes 0		
Dislikes 0		
Response		
Ray Jasicki - Xcel Energy, Inc 1,3,5		
Answer	No	
Document Name		
Comment		
Support the comments of the Edison Electri	c Institute (EEI)	
Likes 0		
Dislikes 0		
Response		
Greg Davis - Georgia Transmission Corp	oration - 1	
Answer	No	
Document Name		
Comment		
reliability standards would not be cost-effect	flexibility in implementation that the CIP reliability standards provide, the inclusion of PACS in the CIP ive as it will provide no direct benefits to the reliability of the BES. Further, as these systems are not on the cost-effective to unnecessarily include them.	
Likes 0		
Dislikes 0		
Response		
Sandra Shaffer - Berkshire Hathaway - Pa	acifiCorp - 6	
Answer	No	
Document Name		
Comment		
The larger inclusion of Cyber Assets (EACMS and PACS) increases the scope and burden on industry. The cost of CIP-013 compliance is currently unknown as this is a new standard. This potentially adds an additional set of Vendors/Supplier's that provide equipment, software, or service. Therefore, currently providing any credible cost or benefit information is premature. External increased costs imposed on industry by our vendors is also an unknown variance that cannot be predicted at this time.		
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Likes 0		
Dislikes 0		
Response		
Wayne Guttormson - SaskPower - 1		
Answer	No	
Document Name		
Comment		
Support the MRO-NSRF comments.		
Likes 0		
Dislikes 0		
Response		
Andy Fuhrman - Andy Fuhrman On Beha	If of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman	
Answer	No	
Document Name		
Comment		
MPC supports comments submitted by the MRO NERC Standards Review Forum.		
Likes 0		
Dislikes 0		
Response		
Lana Smith - San Miguel Electric Cooper	ative, Inc 5	
Answer	No	
Document Name		

Comment		
We do not agree the modifications are cost effective at this time. This is based on the current effort to implement CIP-013-1, CIP-005-6, and CIP-010-3 has not been completed and therefore a full understanding of the current costs is not known.		
Likes 0		
Dislikes 0		
Response		
Gerry Adamski - Cogentrix Energy Powe		
Answer	No	
Document Name		
Comment		
The current language in the standard intentionally creates different expectations for vendor remote access versus internal staff remote access. As this subjects the entity to potentially multiple frameworks for the same activity, it inherently creates an inefficiency to the process that could be easily eliminated. Furthermore, the current measures in CIP-005 Part 3.1 introduce process activities that go beyond the stated requirements (i.e. monitoring remote access activity), potentially leading entities to implement more costly approaches to meet the standard requirements.		
Likes 0		
Dislikes 0		
Response		
John Galloway - John Galloway On Beha	alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway	
Answer	No	
Document Name		
Comment		
Although ISO-NE acknowledges that EACMS and PACS are as important to protect as the BCS in line with the FERC Order, we recommend to wait on extending the program to EACMS and PACS until after the upcoming CIP-005-6, CIP-010-3 and CIP-013-1 standards have been in effect for at least two years to allow for the processes and controls to mature and to obtain any key learnings from implementing these protections and from audit experiences, including findings and areas of concerns identified by the auditors to ensure they are implemented in the most cost-effective manner. At that time, the ISO-NE also proposes that NERC issue a CIP-013-1 survey amongst the industry to collect recommendations for improvement of the industry's supply chain security standard.		
Likes 0		
Dislikes 0		
Response		

Kevin Salsbury - Berkshire Hathaway - N	IV Energy - 5
Answer	No
Document Name	
Comment	
The larger inclusion of Cyber Assets (EACMS and PACS) increases the scope and burden on industry. The cost of CIP-013 compliance is currently unknown as this is a new standard. This potentially adds an additional set of Vendors/Supplier's that provide equipment, software, or service. Therefore currently providing any credible cost or benefit information is premature. External increased costs imposed on industry by our vendors is also an unknown variance that cannot be predicted at this time	

Dislikes 0 Response LaTroy Brumfield - American Transmiss - Company, LLC - 1 Answer Name No Comment Name Comment

The ambiguity around what "access" is, what "remote" is, and what "vendor" is in combination with the broad spectrum of interpretations by stringing these terms together creates a level of confusion that reduces cost effectiveness and efficiency.

Additionally, the continued absence of a provision for emergencies in CIP-013 R1 forces a Registered Entity to choose between compliance and reliability, and that very condition puts reliability at risk and creates costly undue compliance overhead. It is unreasonable to obligate a Registered Entity to put reliability at risk when in crisis, and then further punish an entity that does the right thing with a self-report if an after the fact supplier assessment must occur when faced with conditions like CIP Exceptional Circumstances. It is not cost effective for industry to allocate our limited resources to unnecessary compliance overhead when doing the right thing in crisis. It is equally unreasonable for a Standard to become a distraction or dissuasion from doing the right thing. The NERC FAQ published Feb 18, 2020 clearly states the position that "CIP-013-1 is applicable to any procurement regardless of the scenario, including an emergency. CIP-013-1 is silent to any special provisions such as emergency procurements." For this to be a truly objective based Standard the requirement language should encourage "reliability and security" such that Registered Entities are permitted to develop a Supply Chain Risk Management Plan resulting in those outcomes without creating an automatic violation. CIP Exceptional Circumstances are unplanned, yet the absence of these words creates a condition where the Registered Entity is facing noncompliance if not clairvoyant. ATC requests serious reconsideration and contemplation of language to fix this so we can effectively manage the "knowns" and effectively mitigate the risk of the "unknowns". The simple inclusion of something like "1.3. Documented provisions for emergency procurements, including methods and timeframes to mitigate the risk of after the fact supplier risk assessments related to CIP Exceptional Circumstances".

Likes 0 Dislikes 0 Response

	aurer, Oncor Electric Delivery, 1; - Tho Tran	
Answer	No	
Document Name		
Comment		
Additional costs will be driven to add those	new EACMS and PACS assets to supply chain overview.	
Likes 0		
Dislikes 0		
Response		
Andrea Jessup - Bonneville Power Admi	nistration - 1,3,5,6 - WECC	
Answer	No	
Document Name		
Comment		
Depending upon how an entity implements their initial Supply Chain Standards program, the proposed changes to CIP-005, CIP-010 and CIP-013 could result in significant impacts to an entity's program and may not be as simple as merely adding a few additional systems. For these entities, they may need to develop and implement a different process for EACMS and PACS systems.		
Likes 0		
Dislikes 0		
Response		
Richard Jackson - U.S. Bureau of Reclan	nation - 1	
Answer	No	
Document Name		
Comment		
To minimize churn among standard versions, Reclamation recommends the SDT take additional time to coordinate the modifications in CIP-005-7, CIP- 010-4, and CIP-013-2 with other existing drafting teams for related standards; specifically, Projects 2016-02, 2020-03, and 2020-04. This will help minimize the costs associated with the planning and adjustments required to achieve compliance with frequently changing requirements. NERC should foster a standards development environment that will allow entities to fully implement technical compliance with current standards before moving to subsequent versions. This will provide entities economic relief by better aligning the standards for overall improved reliability and by reducing the chances that standards will conflict with one another.		

Likes 0

Dislikes 0		
Response		
Romel Aquino - Edison International - So	outhern California Edison Company - 3	
Answer	No	
Document Name		
Comment		
Please see comments submitted by Edison	Electric Institute	
Likes 0		
Dislikes 0		
Response		
Dana Klem - MRO - 1,2,3,4,5,6 - MRO, Gro	Dup Name MRO NSRF	
Answer	No	
Document Name		
Comment		
These comments represent the MRO NSRF	membership as a whole but would not preclude members from submitting individual comments	
Continual changes to standards and parts, even the slightest language and word changes cost budgetary dollars to review, comprehend, perform impact analysis, implement, test, and meet at audit. The ambiguity around what "access" is, what "remote" is, and what "vendor" is in combination with the broad spectrum of interpretations by stringing these terms together creates a level of confusion that reduces cost-effectiveness and efficiency. In the past, Standards Drafting Teams appear to work in silos from each other resulting in bleed over language which is similar or the same result.		
Additionally, the continued absence of a provision for emergencies in CIP-013 R1 forces a Registered Entity to choose between compliance and reliability, and that very condition puts reliability at risk and creates costly undue compliance overhead. It is unreasonable to obligate a Registered Entity to put reliability at risk when in crisis, and then further punish an entity that does the right thing with a self-report if an after the fact supplier assessment must occur when faced with conditions like CIP Exceptional Circumstances. It is not cost-effective for industry to allocate our limited resources to unnecessary compliance overhead when doing the right thing in crisis. It is equally unreasonable for a Standard to become a distraction or dissuasion from doing the right thing. The NERC FAQ published Feb 18, 2020, clearly states the position that "CIP-013-1 is applicable to any procurement regardless of the scenario, including an emergency. CIP-013-1 is silent to any special provisions such as emergency procurements." For this to be a truly objective-based Standard the requirement language should encourage "reliability and security" such that Registered Entities are permitted to develop a Supply Chain Risk Management Plan resulting in those outcomes without creating an automatic violation. CIP Exceptional Circumstances are unplanned, yet the absence of these words creates a condition where the Registered Entity is facing noncompliance if not clairvoyant. ATC requests serious reconsideration and contemplation of language to fix this so we can effectively manage the "knowns" and effectively mitigate the risk of the "unknowns". The simple inclusion of something like "1.3. Documented provisions for emergency procurements, including methods and timeframes to mitigate the risk of after the fact supplier risk assessments related to CIP Exceptional Circumstances".		
Likes 0		
Dislikes 0		

Response		
Karie Barczak - DTE Energy - Detroit Edi	son Company - 3, Group Name DTE Energy - DTE Electric	
Answer	No	
Document Name		
Comment		
terminate vendor remote access sessions.	R3 Part 3.1 will require significant investment to isolate these Boundary Assets to be able to monitor for and This is a substantial change to definition of EACMS and PACS and likely will bring additional assets into boundaries and cyber security isolation methods that had previously not been required.	
Likes 0		
Dislikes 0		
Response		
Kjersti Drott - Tri-State G and T Associat	ion, Inc 1	
Answer	No	
Document Name		
Comment		
Tri-State recommends EACMS be separated into EACS and EAMS. Not separating the concept of an EACMS into an EACS and EAMS creates lower BES security, as monitoring of industrial control system networks is not being integrated with monitoring of business networks, sensor networks, and other networks. A particular pain point is that EACMS requirements prevent outsourcing 24x7 network monitoring that includes systems or networks in CIP scope. The		
	pply EACMS compliance levels to monitoring (not controlling) are unnecessary.	
Likes 0		
Dislikes 0		
Response		
Dennis Sismaet - Northern California Power Agency - 6		
Answer	No	
Document Name		
Comment		
This project should be canceled or at least placed on hold until the following occur:		

1. DOE issues their report detailing how they will proceed with BPS Supply Chain requirements in accordance with the 2020 Presidential Executive Order. It is not prudent for NERC to continue spending inordinate amount of valued Industry stakeholders' time on this endeavor which will likely change in the near future as a result of DOE's efforts. Regardless, FERC will probably immediately order project changes anyway, even if Industry approves the proposal as is.

2. NERC provides a cost proposal, first and that it be accurate and reasonable. Future SARs should not be allowed through the Standards Committee without a cost estimate. All stakeholders need to know the estimated cost prior to SAR posting and deserve to know the cost of what they are voting on.

3. FERC levels the playing field by ordering BAs to modify their Tariffs, and compensate GO/GOPs for fixed NERC Compliance Costs. NERC's response to SAR page three Market Principle one was inaccurate. California ISO (CAISO) Market rules, and maybe other ISOs too, do not allow GOPs to recover fixed costs for unfunded FERC/NERC reliability mandates. Non-GOP Market Participants have no said obligations nor costs. This is an extremely unfair business practice especially considering the BAs/ISOs are compensated for, allowed to recover, 100% of their NERC/FERC fixed compliance costs. Additionally, this results in unfair Market competitive advantages for non-GOP generator Market Participants in the CAISO BA to the detriment, disadvantage of GOPs like NCPA.

4. Finally, future submittals/proposals should not be sent for balloting until the CIP STD not only develops proposed standard revisions, but also develop guidance and audit approach measures, that Auditors shall be required to follow, which should be balloted/commented on at the same time as the proposed standard revisions. No more, after-the-fact, Standards interruptions by FERC, NERC, and/or REs that were not approved by all Stakeholders.

Likes 0	
Dislikes 0	
Response	
Masuncha Bussey - Duke Energy - 1,3,5,	6 - MRO,Texas RE,SERC, Group Name Duke Energy
Answer	No
Document Name	
Comment	
and CIP-010-3 has not been completed and measure against. Duke Energy sees potential schedule and c evaluate the impacts of defining and implem	ons are cost effective at this time. This is based on the current effort to implement CIP-013-1, CIP-005-6, I therefore a full understanding of the current costs is not known to establish a baseline with which to ost risks in implementing yet to be defined tools in the required time period. Also, Duke Energy has yet to henting EACMS and PACS related controls to meet this requirement.
Likes 0	
Dislikes 0	
Response	
Kevin Conway - Public Utility District No.	. 1 of Pend Oreille County - 1
Answer	No

Document Name		
Comment		
We do not feel that the level of administration and additional work is not cost effective for small organizations with limited resources. We recommend that exceptions are made for smaller entities that are more limited in their ability to get competative bids, and services to meet the intent of the FERC directives.		
Likes 0		
Dislikes 0		
Response		
Scott Tomashefsky - Northern California	Power Agency - 4	
Answer	No	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Pamela Hunter - Southern Company - So	uthern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company	
Answer	Yes	
Document Name		
Comment		
Southern agrees that the FERC directives can be executed in a cost-effective manner. There will be an undue cost and burden initially to conduct business another way by adding EACMS and PACS to CIP-005 R3.1 and R3.2. Other costs will include providing new technology if not already present to track, store, and recall the data addressing the assessments provided by CIP vendors.		
Likes 0		
Dislikes 0		
Response		
Holly Chaney - Snohomish County PUD	No. 1 - 3, Group Name SNPD Voting Members	
Answer	Vaa	
	Yes	

Comment	
No comments.	
Likes 1	Public Utility District No. 1 of Snohomish County, 4, Martinsen John
Dislikes 0	
Response	
Matthew Nutsch - Seattle City Light - 1,3	,4,5,6 - WECC
Answer	Yes
Document Name	
Comment	
Seattle City Light concurs with the commen	ts provided by Snohomish PUD
Likes 0	
Dislikes 0	
Response	
Maryanne Darling-Reich - Black Hills Co	rporation - 1,3,5,6 - MRO,WECC
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	

Immes Baldwin - Lower Colorado River Authority - 1,5 nswer Yes comment	Dislikes 0	
Inseer Yes Courset Name Comment Ves Courset Name Course Course Colorado River Authority - 5, Group Name LCRA Compliance Inseer Yes Courset Name Courset Name Courset Name Courset Name Courset Name Courset Colorado River Authority - 5, Group Name LCRA Compliance Inseer Yes Courset Name Cou	Response	
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silkes 0 silkes 0 silkes 0 seponse 0 sigation District, 1, 6, 5, 3; Tino Zaragoza, Imperial Irrigation District, 1, 6, 5, 3; Jesus Sammy Alcaraz, Imperial Irgation District, 1, 6, 5, 3; Tino Zaragoza, Imperial Irrigation District, 1, 6, 5, 3; - Denise Sanchez swer Yes scument Name 0 silkes 0	Answer	Yes
kes 0	Document Name	
slikes 0 sponse sanchez - Denise Sanchez On Behalf of: Glen Allegranza, Imperial Irrigation District, 1, 6, 5, 3; Jesus Sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; Jesus Sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imperial Igation District, 1, 6, 5, 3; - Denise Sanchez sammy Alcaraz, Imper	Comment	
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Newer Yes bocument Name bocument bocum	Response	
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ocument Name Image: Comment of the second of t	Teresa Cantwell - Lower Colorado River	Authority - 5, Group Name LCRA Compliance
kes 0 slikes 0 seponse	Answer	Yes
kes 0 slikes	Document Name	
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slikes 0 esponse		
esponse	Likes 0	
	Dislikes 0	
oger Fradenburgh - Roger Fradenburgh On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh	Response	
oger Fradenburgh - Roger Fradenburgh On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh		
	Roger Fradenburgh - Roger Fradenburg	h On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ginette Lacasse - Public Utility District N	lo. 1 of Chelan County - 1, Group Name PUD #1 Chelan
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Meaghan Connell - Public Utility District	No. 1 of Chelan County - 5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter	
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0		
Response		
Peter Brown - Invenergy LLC - 5 - MRO,W	VECC,Texas RE,NPCC,SERC,RF	
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		
Tony Skourtas - Los Angeles Departmen	t of Water and Power - 3	
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Steven Rueckert - Western Electricity Co	ordinating Council - 10	
Answer	Yes	

Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Anthony Jablonski - ReliabilityFirst - 10		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Bruce Reimer - Manitoba Hydro - 1		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		
Response		
Kelsi Rigby - APS - Arizona Public Service Co 5		
Answer	Yes	
Document Name		
Comment		
Likes 0		
Dislikes 0		

Response	
Randy Cleland - GridLiance Holdco, LP -	1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Rachel Coyne - Texas Reliability Entity, I	nc 10
Answer	
Document Name	
Comment	
Texas RE does not have comments on this	question.
Likes 0	
Dislikes 0	
Response	
Gail Elliott - Gail Elliott On Behalf of: Mic	hael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott
Answer	
Document Name	
Comment	
ITC is Abstaining	
Likes 0	
Dislikes 0	
Response	
Leonard Kula - Independent Electricity S	ystem Operator - 2

Answer		
Document Name		
Comment		
No comment.		
Likes 0		
Dislikes 0		
Response		
Douglas Webb - Douglas Webb On Beha Westar Energy, 1, 6, 5, 3; Marcus Moor, V	If of: Allen Klassen, Westar Energy, 1, 6, 5, 3; Derek Brown, Westar Energy, 1, 6, 5, 3; James McBee, Vestar Energy, 1, 6, 5, 3; - Douglas Webb, Group Name Westar-KCPL	
Answer		
Document Name		
Comment		
Evergy (Westar Energy and Kanas City Pov	ver & Light Co.) does not have a position nor comments in response to Question 6.	
Likes 0		
Dislikes 0		
Response		
Barry Jones - Barry Jones On Behalf of: Administration, 1, 6; - Barry Jones	Erin Green, Western Area Power Administration, 1, 6; sean erickson, Western Area Power	
Answer		
Document Name		
Comment		
The addition of EACMs and PACs to the CIP-005 requirement 3 adds significant compliance efforts and costs to responsible entities. Entities that use vendors to assist in access monitoring, electronic or physical, for monitoring and threat hunting is a good thing. The more eyes on potential nefarious activity provides for a safer and more reliable grid.		

Efforts like this sound good but do nothing to add to the cyber security of the grid.

Using the measure cited in part 3.1 as an example "Methods for monitoring activity (e.g. connection tables or **rule hit counters in a firewall**, or user activity monitoring) or open ports (e.g. netstat or related commands to display currently active ports) to determine active system to system remote access sessions" are now standard in most firewalls and can be provided as a print out for evidence. This however does nothing to secure the grid. The standards should address alerting on and actions taken on a unrecognized connections by an outside source. This would be more in line with providing cyber security, automated processes that transmit logs to SEIMS monitored by outside vendors is better for security. These types of issues should be addressed in CIP-013 requirement 1 already addresses connections inbound and outbound to assets.

Continual changes to standards and parts, even the slightest language and word changes cost budgetary dollars to review, comprehend, perform impact analysis, implement, test and meet at audit. The ambiguity around what "access" is, what "remote" is, and what "vendor" is in combination with the broad spectrum of interpretations by stringing these terms together creates a level of confusion that reduces cost effectiveness and efficiency. In the past, Standards Drafting Teams appear to work in silos from each other resulting in bleed over language which is similar or the same result.

Additionally, the continued absence of a provision for emergencies in CIP-013 R1 forces a Registered Entity to choose between compliance and reliability, and that very condition puts reliability at risk and creates costly undue compliance overhead. It is unreasonable to obligate a Registered Entity to put reliability at risk when in crisis, and then further punish an entity that does the right thing with a self-report if an after the fact supplier assessment must occur when faced with conditions like CIP Exceptional Circumstances. It is not cost effective for industry to allocate our limited resources to unnecessary compliance overhead when doing the right thing in crisis. It is equally unreasonable for a Standard to become a distraction or dissuasion from doing the right thing. The NERC FAQ published Feb 18, 2020 clearly states the position that "CIP-013-1 is applicable to any procurement regardless of the scenario, including an emergency. CIP-013-1 is silent to any special provisions such as emergency procurements." For this to be a truly objective based Standard the requirement language should encourage "reliability and security" such that Registered Entities are permitted to develop a Supply Chain Risk Management Plan resulting in those outcomes without creating an automatic violation. CIP Exceptional Circumstances are unplanned, yet the absence of these words creates a condition where the Registered Entity is facing noncompliance if not clairvoyant. ATC requests serious reconsideration and contemplation of language to fix this so we can effectively manage the "knowns" and effectively mitigate the risk of the "unknowns". The simple inclusion of something like "1.3. Documented provisions for emergency procurements, including methods and timeframes to mitigate the risk of after the fact supplier risk assessments related to CIP Exceptional Circumstances".

Likes 0		
Dislikes 0		
Response		
Quintin Lee - Eversource Energy - 1, Gro	up Name Eversource Group	
Answer		
Document Name		
Comment		
No comment		
Likes 0		
Dislikes 0		
Response		
Linn Oelker - PPL - Louisville Gas and El	ectric Co 6	
Answer		
Document Name		
Comment		
I support EEI's comments.		

Likes 0		
Dislikes 0		
Response		
Neil Shockey - Edison International - Sou	uthern California Edison Company - 5	
Answer		
Document Name		
Comment		
Please see comments submitted by Edison	Electric Institute	
Likes 0		
Dislikes 0		
Response		
Kenya Streeter - Edison International - S	outhern California Edison Company - 6	
Answer		
Document Name		
Comment		
Please see comments submitted by Edison Electric Institute		
Likes 0		
Dislikes 0		
Response		
Marty Hostler - Northern California Power Agency - 5		
Answer		
Document Name		
Comment		
NO. See response to question 7.		
Likes 0		
Dislikes 0		

R	e	S	p	Ο	n	S	е

7. Provide any additional comments for the standard drafting team to consider, if desired.			
Calvin Wheatley - Wabash Valley Power Association - 1,3			
Answer			
Document Name			
Comment			
Wabash Valley Power Alliance supports the	comments submitted by NRECA.		
a large number of BES assets. It is essentia on reliability, while not adding excessive but	et category has highly varied risk levels. This is especially true when a single access point controls access to It to impose BES Reliability standard on those systems whose architecture has a potential broad scale affect rden and costs on systems that are architected to have a minimal effect on grid reliability. Appropriate risk those systems that will have an affect on grid reliability should be included as a component of the SAR.		
Likes 0			
Dislikes 0			
Response			
Marty Hostler - Northern California Power Agency - 5			
Answer			
Document Name			
Comment			
	placed on hold until the following occur: y will proceed with BPS Supply Chain requirements in accordance with the 2020 Presidential Executive le spending an inordinate amount of valued Industry stakeholders' time on this endeavor which will likely		

Order. It is not prudent for NERC to continue spending an inordinate amount of valued Industry stakeholders' time on this endeavor which will likely change in the near future as a result of DOE's efforts. Regardless, FERC will probably immediately order project changes anyway, even if Industry approves the proposal as is.

2. NERC provide a cost proposal, first and that it be accurate and reasonable. Future SARs should not be allowed though the Standards Committee without a cost estimate. All stakeholders need to know the estimated cost prior to SAR posting and deserve to know the cost of what they are voting on.

3. FERC levels the playing field by ordering BAs to modify their Tariffs, and compensate GO/GOPs for fixed NERC Compliance Costs. NERC's response to SAR page three Market Principle one was inaccurate. California ISO (CAISO) Market rules, and maybe other ISOs too, do not allow GOPs to recover fixed costs for unfunded FERC/NERC reliability mandates. Non-GOP Market Participants have no said obligations nor costs. This is an extremely unfair business practice especially considering the BAs/ISOs are compensated for, allowed to recover, 100% of their NERC/FERC fixed compliance costs. Additionally, this results in unfair Market competitive advantages for non-GOP generator Market Participants in the CAISO BA to the detriment, disadvantage of GOPs like NCPA.

4. Finally, future submittals/proposals should not be sent out for balloting until the CIP SDT not only develops proposed standard revisions, but also develop guidance and audit approach measures, that Auditors shall be required to follow, which should be balloted/commented on at the same time as

the proposed standard revisions. No more, Stakeholders.	after-the-fact, Standards interruptions by FERC, NERC, and/or REs that were not approved by all	
Likes 0		
Dislikes 0		
Response		
Masuncha Bussey - Duke Energy - 1,3,5,	6 - MRO,Texas RE,SERC, Group Name Duke Energy	
Answer		
Document Name		
Comment		
None		
Likes 0		
Dislikes 0		
Response		
Kelsi Rigby - APS - Arizona Public Servio	ce Co 5	
Answer		
Document Name		
Comment		
AZPS requests more information be provided regarding the rationale for leaving the "system-to-system remote access" and "Interactive Remote Access" language in the Measures section of CIP-005-7 R3.1 and R3.2, after removing the language from the requirements.		
	CIP-005-7 R3.2 still references disabling remote access versus terminating remote access sessions. AZPS ures to maintain consistency with the requirement language.	
Similarly, AZPS recommends revising the la	anguage in CIP-013-2 R1.2.6 to maintain consistency with the language in CIP-005-7 R3.1 and R3.2.	
Likes 0		
Dislikes 0		
Response		
Anthony Jablonski - ReliabilityFirst - 10		

Answer		
Document Name		
Comment		
within the same ESP and software is validate	PCAs should also be included in the Applicable Systems. When BES Cyber Systems and PCAs are located ted and verified for the BCS but not the PCAs, a mixed-trust security environment is created within an ESP. 3 uses the term "periodic" in every example of internal controls – with no definition or assistance regarding	
how long "periodic" is.	s uses the term periodic in every example of internal controls – with no definition of assistance regarding	
Likes 0		
Dislikes 0		
Response		
Erick Barrios - New York Power Authorit	y - 6	
Answer		
Document Name		
Comment		
We suggest that industry wants to provide f In the Technical Rationale and Justification "General Considerations for Requirement R reassess selected supply chain cyber secur	n posting an update or an additional document after announcing that project's comment and/or ballot period. eedback on the corrected, up-to-date documents. for Reliability Standard CIP-013-2 document, "General Considerations for Requirement R2" should read 33". The text indicates "The requirement addresses Order No. 829 directives for entities periodically to rity risk management controls ". R2 requires the responsible entity to implement its supply chain cyber R1, R3 requires that the responsible entity review the plan specified in R1 every 15 months.	
Likes 0		
Dislikes 0		
Response		
Dennis Sismaet - Northern California Po	wer Agency - 6	
Answer		
Document Name		
Comment		
This project should be canceled or at least	placed on hold until the following occur:	
1. DOE issues their report detailing how they will proceed with BPS Supply Chain requirements in accordance with the 2020 Presidential Executive		

Order. It is not prudent for NERC to continue spending inordinate amount of valued Industry stakeholders' time on this endeavor which will likely

change in the near future as a result of DOE's efforts. Regardless, FERC will probably immediately order project changes anyway, even if Industry approves the proposal as is.

2. NERC provides a cost proposal, first and that it be accurate and reasonable. Future SARs should not be allowed through the Standards Committee without a cost estimate. All stakeholders need to know the estimated cost prior to SAR posting and deserve to know the cost of what they are voting on.

3. FERC levels the playing field by ordering BAs to modify their Tariffs, and compensate GO/GOPs for fixed NERC Compliance Costs. NERC's response to SAR page three Market Principle one was inaccurate. California ISO (CAISO) Market rules, and maybe other ISOs too, do not allow GOPs to recover fixed costs for unfunded FERC/NERC reliability mandates. Non-GOP Market Participants have no said obligations nor costs. This is an extremely unfair business practice especially considering the BAs/ISOs are compensated for, allowed to recover, 100% of their NERC/FERC fixed compliance costs. Additionally, this results in unfair Market competitive advantages for non-GOP generator Market Participants in the CAISO BA to the detriment, disadvantage of GOPs like NCPA.

4. Finally, future submittals/proposals should not be sent for balloting until the CIP STD not only develops proposed standard revisions, but also develop guidance and audit approach measures, that Auditors shall be required to follow, which should be balloted/commented on at the same time as the proposed standard revisions. No more, after-the-fact, Standards interruptions by FERC, NERC, and/or REs that were not approved by all Stakeholders.

Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity Co	ordinating Council - 10
Answer	
Document Name	
Comment	

Support SDT consideration of formally defining "vendor" in the NERC Glossary of Terms. With the supply chain CIP-013-2, suggest inclusion of PACS peripherals (badge readers).

There are significant risks associated with PACS peripherals.

When contactless smart cards are implemented and deployed properly, they represent one of the most secure identification technologies available. However, some manufacturers, in an attempt to sell a 'universal' reader capable of reading almost any contactless smart card technology, actually disable the built-in security mechanisms. These readers, referred to as 'CSN readers', only read the card's serial number which, per ISO standards, is not be protected by any security. The ISO standard specifies use of the CSN for a process referred to as anti-collision, which is designed only to identify more than one distinct card in the field of the reader, and does not include security measures. An understanding of these details can allow a perpetrator to build a device to clone (or simulate) the CSN of a contactless smart card.

CSN refers to the unique card serial number of a contactless smart card. All contactless smart cards contain a CSN as required by the ISO specifications 14443 and 15693. The CSN goes by many other names including UID (Unique ID), and CUID (Card Unique ID). It is important to note that the CSN can always be read without any security or authentication per ISO requirements.

Providers who seek to provide the lowest cost product, often choose not to pursue proper licensing of the security algorithms to minimize their costs. They also often fail to educate their customers on the compromise they are introducing into the customer's security solution. While the customer may benefit from a low price at install, the long term cost of a security compromise can be catastrophic. (Source - HID Global)

	sed Door Access and Entry Control Systems. This eliminates the need for a door controller. The built in allows the access control decision to be made at the door controller in the event the network is down.	
Likes 0		
Dislikes 0		
Response		
Dana Klem - MRO - 1,2,3,4,5,6 - MRO, Gro	Pup Name MRO NSRF	
Answer		
Document Name		
Comment		
These comments represent the MRO NSRF	membership as a whole but would not preclude members from submitting individual comments".	
	Supply Chain. When considering Supply Chain and vendors and their remote access, the SDT must re- personnel and their authorizations from systems and their authorized purposes and capabilities. This can ng:	
CIP-004-6 already includes controls for auth access of personnel (no matter employees,	orizing personnel and is the appropriate standard area to authorize vendors. Consider authorization and contractors, or vendors).	
CIP-002 is a more appropriate choice for identifying and categorizing vendor systems that reside at an entity location. This allows an entity to use existing processes to identify vendor vs entity BCS and define and declare the purpose of the vendor system – i.e., providing vendor remote access – much as an entity identifies an EACMS or PACS purposes. This allows an entity to consider the capability and define what systems/cyber assets and software are authorized vs what they have not authorized (similar to how an entity authorizes people).		
CIP-005, CIP-007, and CIP-010 already address controls for configurations, accounts, and network/firewall rules) including identifying the protocols (RDP, SSH, etc) ingress/egress to a BCS and a business justification in CIP-005. In this case, the justification would be "vendor remote access."		
	ntrols which separate and authorize people from authorizing systems and allows an entity to focus on accounts (for vendors), and allows a focus on defining the purpose and function of a BCS, its configured	
Likes 0		
Dislikes 0		
Response		
Kenya Streeter - Edison International - So	outhern California Edison Company - 6	
Answer		
Document Name		
Comment		

Please see comments submitted by Edison	Electric Institute
Likes 0	
Dislikes 0	
Response	
Romel Aquino - Edison International - So	outhern California Edison Company - 3
Answer	
Document Name	
Comment	
Please see comments submitted by Edison	Electric Institute
Likes 0	
Dislikes 0	
Response	
Richard Jackson - U.S. Bureau of Reclan	nation - 1
Answer	
Document Name	
Comment	
in CIP-010-4 Part 1.6, CIP-013-2 R1, R1.1,	buld include "BES Cyber Systems, and their associated EACMS and PACS" as Applicable Systems (such as R1.2, R1.2.5). If associated PCAs are not included, the rest of the cyber assets within an Electronic Security PCA patches may be inadvertently loaded with Trojan Horses, malicious sniffers, etc., which may affect the g BES Cyber Systems.
Likes 0	
Dislikes 0	
Response	
Matthew Nutsch - Seattle City Light - 1,3,	4,5,6 - WECC
Answer	
Document Name	
Comment	

Seattle City Light concurs with the comments provided by Snohomish PUD		
Likes 0		
Dislikes 0		
Response		
Chris Wagner - Santee Cooper - 1, Group	Name Santee Cooper	
Answer		
Document Name		
Comment		
Santee Cooper has no additional comments	S.	
Likes 0		
Dislikes 0		
Response		
Holly Chaney - Snohomish County PUD	No. 1 - 3, Group Name SNPD Voting Members	
Answer		
Document Name		
Comment		
Consistency across the three supply chain standards is of paramount importance. Please consider integrating consistent language into each standard, as applicable.		
Likes 1	Public Utility District No. 1 of Snohomish County, 4, Martinsen John	
Dislikes 0		
Response		
Jennie Wike - Jennie Wike On Behalf of: Hien Ho, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; John Merrell, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; Ozan Ferrin, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; Terry Gifford, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; - Jennie Wike		
Answer		
Document Name		
Comment		

The clarification of vendor-initiated in CIP-005 R3 is valuable, but it doesn't solve the challenge of a contract employee (a vendor according to Supplemental Material sections of the Standards). A contract employee who initiates access to an applicable system remotely would be subject to these requirements, even if they are using Registered Entity owned and managed systems to initiate that access.		
Likes 0		
Dislikes 0		
Response		
Mark Garza - FirstEnergy - FirstEnergy C	orporation - 4, Group Name FE Voter	
Answer		
Document Name		
Comment		
N/A		
Likes 0		
Dislikes 0		
Response		
Neil Shockey - Edison International - Sou	thern California Edison Company - 5	
Answer		
Document Name		
Comment		
Please see comments submitted by Edison Electric Institute		
Likes 0		
Dislikes 0		
Response		
William Winters - Con Ed - Consolidated	Edison Co. of New York - 5	
Answer		
Document Name		
Comment		

Request that NERC notify the industry when posting an update or an additional document after announcing that project's comment and/or ballot period. We suggest that industry wants to provide feedback on the corrected, up-to-date documents.

In the Technical Rationale and Justification for Reliability Standard CIP-013-2 document, "General Considerations for Requirement R2" should read "General Considerations for Requirement R3". The text indicates "The requirement addresses Order No. 829 directives for entities periodically to reassess selected supply chain cyber security risk management controls ". R2 requires the responsible entity to implement its supply chain cyber security risk management plan specified in R1, R3 requires that the responsible entity review the plan specified in R1 every 15 months.

Likes 0	
Dislikes 0	
Response	
Tho Tran - Tho Tran On Behalf of: Lee M	aurer, Oncor Electric Delivery, 1; - Tho Tran
Answer	
Document Name	
Comment	
No additional comments on this question.	
Likes 0	
Dislikes 0	
Response	
Meaghan Connell - Public Utility District	No. 1 of Chelan County - 5
Answer	
Document Name	
Comment	
Staff Report and Recommended Actions, "T are addressed it the CIP Reliability Standar physically present at the facility in order to e several physical access or monitoring contr lower risk to the BES than other classification believes that PACS should be excluded from a best practice approach and adequate cyb Cyber Security Supply Chain Risks Staff Re CHPD requests coordination between Proje	the inclusion of PACS in the scope of Project 2019-03. As stated in <u>Cyber Security Supply Chain Risks</u> The potential risk of supply chain compromise described can be mitigated in part by controls, some of which ds while others can be addressed in entity policies and procedures In addition, a threat actor must be exploit the vulnerability created by a compromised PACS system. A threat actor may also need to bypass ols that have not been compromised in order to gain access." (p. 14-15). CHPD agrees that PACS pose a ons (BCA, EACMS, and PCA). PACS have no 15-minute BES impact and no access to BCS or ESP. CHPD m Project 2019-03 for CIP-010 and CIP-013 due to their lower risk to the BES. CHPD instead recommends er security controls be applied to PACS for the same justification as to why they were applied to PCAs in the eport and Recommended Actions (May 17, 2019, p. 21-22) ect 2016-02 and 2019-03 as changes of the EACMS classification continues to be developed.
Likes 0	

Dislikes 0		
Response		
LaTroy Brumfield - American Transmission Company, LLC - 1		
Answer		
Document Name		
Comment		

The continued absence of a provision for emergencies in CIP-013 R1 creates a condition where a Registered Entity must choose between compliance and reliability, and that very condition puts reliability at risk. It is unreasonable to obligate a Registered Entity to put reliability at risk when in crisis, and then further punish an entity that does the right thing with a self-report if an after the fact supplier assessment must occur when faced with conditions like CIP Exceptional Circumstances. It is equally unreasonable for a Standard to become a distraction or dissuasion from doing the right thing. The NERC FAQ published Feb 18, 2020 clearly states the position that "CIP-013-1 is applicable to any procurement regardless of the scenario, including an emergency. CIP-013-1 is silent to any special provisions such as emergency procurements." For this to be a truly objective based Standard the requirement language should encourage "reliability and security" such that Registered Entities are permitted to develop a Supply Chain Risk Management Plan resulting in those outcomes without creating an automatic violation. CIP Exceptional Circumstances by their very nature are unplanned, yet the absence of these words creates a condition where the Registered Entity is facing noncompliance if not clairvoyant for a Requirement that was intended to be future-looking and not operational. ATC requests serious reconsideration and contemplation of language to fix this so we can effectively plan for the "knowns" while effectively mitigating the risk of the "unknowns" without a violation. The simple inclusion of something like "1.3. Documented provisions for emergency procurements, including methods and timeframes to mitigate the risk of after the fact supplier risk assessments related to CIP Exceptional Circumstances". ATC believes it was the original SDT's intention for this to be a future-looking planning standard instead of a real-time/near real-time operating horizon standard, and does not believe it was the original drafting team's intention to penalize Registered Entities when performing emergency procurements based on operational emergencies, yet the FAQ and the emerging guidance from our regulators would interpret this as a violation. If CIP Exceptional Circumstances was not considered, or omitted, by the original SDT due to past understanding that such emergencies are "unplanned" and therefore not subject to CIP-013-1, and the current SDT is aware of this unintended consequence and oversight, then the current SDT should be permitted to make that clarifying change under the existing SAR. A provision like this benefits reliability because now we are all thinking about this as a potentiality and could be better prepared to respond in crisis without having to choose between compliance and reliability. ATC appreciates the consideration.

Likes 0		
Dislikes 0		
Response		
Linn Oelker - PPL - Louisville Gas and Electric Co 6		
Answer		
Document Name		
Comment		
I support EEI's comments.		
Likes 0		

Dislikes 0		
Response		
Ginette Lacasse - Public Utility District N	o. 1 of Chelan County - 1, Group Name PUD #1 Chelan	
Answer		
Document Name		
Comment		
Staff Report and Recommended Actions, "T are addressed it the CIP Reliability Standard physically present at the facility in order to e several physical access or monitoring contro lower risk to the BES than other classificatio CHPD believes that PACS should be exclude recommends a best practice approach and a to PCAs in the <u>Cyber Security Supply Chain</u> CHPD requests coordination between Proje	the inclusion of PACS in the scope of Project 2019-03. As stated in <u>Cyber Security Supply Chain Risks</u> The potential risk of supply chain compromise described can be mitigated in part by controls, some of which ds while others can be addressed in entity policies and procedures In addition, a threat actor must be exploit the vulnerability created by a compromised PACS system. A threat actor may also need to bypass ols that have not been compromised in order to gain access." (p. 14-15). CHPD agrees that PACS pose a ons (BCA, EACMS, and PCA). PACS have no 15-minute BES impact and no access to BCS or ESP. Ided from Project 2019-03 for CIP-010 and CIP-013 due to their lower risk to the BES. CHPD instead adequate cyber security controls be applied to PACS for the same justification as to why they were applied the Risks Staff Report and Recommended Actions (May 17, 2019, p. 21-22) ct 2016-02 and 2019-03 as changes of the EACMS classification continues to be developed.	
Likes 0		
Dislikes 0		
Response		
Pamela Hunter - Southern Company - So	uthern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company	
Answer		
Document Name		
Comment		
Southern would like, as with EEI, for the SDT to more clearly define how vendor remote access is to be addressed when a staff augmented contractor is essential to the reliable operations to the BES. Proposed Reliability Standard CIP-005-7 does not provide a mechanism that exempts vendors who are providing essential contract services that include regular access to High and Medium Impact BES Cyber Systems, and associated EACMS, PACS and PCA. Consider a proposal to modify the SAR to remove EACMS from the scope of CIP-005.		
Likes 0		
Dislikes 0		
Response		

Lana Smith - San Miguel Electric Cooper	ative, Inc 5
Answer	
Document Name	
Comment	
believe entities should be required to regula entities to concentrate more on protecting th This approach would likely result in fewer fir Infrastructure Protection.	rity is an ever changing issue and the Standard development process is just too slow for specifics. We rly evaluate the risks and develop their own risk-based mehods of protection. This approach would allow ne BES and less on complying with specific requirements that may or may not be adequate or cost effective. Indings of non-compliance and more recommendations for improvement, but provide more effective Critical
Likes 0	
Dislikes 0	
Response	
Carl Pineault - Hydro-Qu?bec Production	n - 5
Answer	
Document Name	
Comment	
	n posting an update or an additional document after announcing that project's comment and/or ballot period. eedback on the corrected, up-to-date documents.
Likes 0	
Dislikes 0	
Response	
Quintin Lee - Eversource Energy - 1, Gro	up Name Eversource Group
Answer	
Document Name	
Comment	
Request that NERC notify the industry when posting an update or an additional document after announcing that project's comment and/or ballot period. We suggest that industry wants to provide feedback on the corrected, up-to-date documents.	
Likes 0	
Dislikes 0	
Response	

Andy Fuhrman - Andy Fuhrman On Beha	If of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman
Answer	
Document Name	
Comment	
MPC supports comments submitted by the	MRO NERC Standards Review Forum.
Likes 0	
Dislikes 0	
Response	
Wayne Guttormson - SaskPower - 1	
Answer	
Document Name	
Comment	
Support the MRO-NSRF comments.	
Likes 0	
Dislikes 0	
Response	
Barry Jones - Barry Jones On Behalf of: Administration, 1, 6; - Barry Jones	Erin Green, Western Area Power Administration, 1, 6; sean erickson, Western Area Power
Answer	
Document Name	
Comment	
These changes proposed have little to do with Supply Chain. When considering Supply Chain and vendors and their remote access, the SDT may must re-review the SAR and separate concepts with personnel and their authorizations from systems and their authorized purposes and capabilities. This can be achieved by minor changes in the following:	
CIP-004-6 already includes controls for authorizing personnel and is the appropriate standard area to authorize vendors. Consider authorization and access of personnel (no matter employees, contractors or vendors).	
CIP-002 is a more appropriate choice for identifying and categorizing vendor systems which reside at an entity location. This allows an entity to use existing processes to identify vendor vs entity BCS and define and declare the purpose of the vendor system – i.e., providing vendor remote access –	

much as an entity identifies an EACMS or PACS purposes. This allows an entity to consider the capability and define what systems/cyber assets and software are authorized vs what they have not authorized (similar to how an entity authorizes people).

CIP-005, CIP-007 and CIP-010 already address controls for configurations, accounts and network/firewall rules) including identifying the protocols (RDP, SSH, etc..) ingress/egress to a BCS and a business justification in CIP-005. In this case the justification would be "vendor remote access."

These considerations use language and controls which separate and authorize people from authorizing systems and allows an entity to focus on defining the people, their authorizations and accounts (for vendors), and allows a focus on defining the purpose and function of a BCS, its configured apps and account privileges.

Secondly, the continued absence of a provision for emergencies in CIP-013 R1 creates a condition where a Registered Entity must choose between compliance and reliability, and that very condition puts reliability at risk. It is unreasonable to obligate a Registered Entity to put reliability at risk when in crisis, and then further punish an entity that does the right thing with a self-report if an after the fact supplier assessment must occur when faced with conditions like CIP Exceptional Circumstances. It is equally unreasonable for a Standard to become a distraction or dissuasion from doing the right thing. The NERC FAQ published Feb 18, 2020 clearly states the position that "CIP-013-1 is applicable to any procurement regardless of the scenario, including an emergency. CIP-013-1 is silent to any special provisions such as emergency procurements." For this to be a truly objective based Standard the requirement language should encourage "reliability and security" such that Registered Entities are permitted to develop a Supply Chain Risk Management Plan resulting in those outcomes without creating an automatic violation. CIP Exceptional Circumstances by their very nature are unplanned, yet the absence of these words creates a condition where the Registered Entity is facing noncompliance if not clairvoyant for a Requirement that was intended to be future-looking and not operational.

NERC should implement language to fix this so we can effectively plan for the "knowns" while effectively mitigating the risk of the "unknowns" without a violation. The simple inclusion for example of "1.3. Documented provisions for emergency procurements, including methods and timeframes to mitigate the risk of after the fact supplier risk assessments related to CIP Exceptional Circumstances".

It was the original SDT's intention for this to be a future-looking planning standard team instead of a real-time/near real-time operating horizon standard, and was not NERC nor the original drafting team's intention to penalize Registered Entities when performing emergency procurements based on operational emergencies, yet the FAQ and the emerging guidance from our regulators would interpret this as a violation.

If CIP Exceptional Circumstances was not considered, or omitted, by the original SDT due to past understanding that such emergencies are "unplanned" and therefore not subject to CIP-013-1, and the current SDT is aware of this unintended consequence and oversight, then the current SDT should be permitted to make that clarifying change under the existing SAR. A provision like this benefits reliability because now we are all thinking about this as a potentiality and could be better prepared to respond in crisis without having to choose between compliance and reliability. ATC appreciates the consideration.

Likes 0	
Dislikes 0	

Response

Denise Sanchez - Denise Sanchez On Behalf of: Glen Allegranza, Imperial Irrigation District, 1, 6, 5, 3; Jesus Sammy Alcaraz, Imperial Irrigation District, 1, 6, 5, 3; Tino Zaragoza, Imperial Irrigation District, 1, 6, 5, 3; - Denise Sanchez

Answer	
Document Name	
Comment	
N/A	
Likes 0	

Dislikes 0		
Response		
Douglas Webb - Douglas Webb On Behalf of: Allen Klassen, Westar Energy, 1, 6, 5, 3; Derek Brown, Westar Energy, 1, 6, 5, 3; James McBee, Westar Energy, 1, 6, 5, 3; Marcus Moor, Westar Energy, 1, 6, 5, 3; - Douglas Webb, Group Name Westar-KCPL		
Answer		
Document Name		
Comment		
Evergy (Westar Energy and Kanas City Power & Light Co.) incorporate by reference the Edison Electric Institute's response to Question 7.		
Likes 0		
Dislikes 0		
Response		
Tim Womack - Puget Sound Energy, Inc.	- 3	
Answer		
Document Name		
Comment		
Puget Sound Energy supporte the comments of EEI.		
Likes 0		
Dislikes 0		
Response		
Ruida Shu - Northeast Power Coordination	ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC Regional Standards Committee	
Answer		
Document Name		
Comment		
Request that NERC notifies the industry when posting an update or an additional document after announcing that project's comment and/or ballot period. We suggest that the industry wants to provide feedback on the corrected, up-to-date documents.		

In the Technical Rationale and Justification for Reliability Standard CIP-013-2 document, "General Considerations for Requirement R2" should read "General Considerations for Requirement R3". The text indicates "The requirement addresses Order No. 829 directives for entities periodically to

reassess selected supply chain cybersecurity risk management controls ". R2 requires the responsible entity to implement its supply chain cybersecurity risk management plan specified in R1, R3 requires that the responsible entity review the plan specified in R1 every 15 months.		
Likes 0		
Dislikes 0		
Response		
	John Lindsey, Cleco Corporation, 6, 5, 1, 3; Maurice Paulk, Cleco Corporation, 6, 5, 1, 3; Robert ephanie Huffman, Cleco Corporation, 6, 5, 1, 3; - Clay Walker	
Answer		
Document Name		
Comment		
EEI asks the SDT to more clearly define how vendor remote access is to be addressed when the service vendor is essential to the reliable operation the BES. Proposed Reliability Standard CIP-005-7 does not provide a mechanism that exempts vendors who are providing essential contract services such as security access monitoring, logging and control through remote access to High and Medium Impact BES Cyber Systems, and associated EACMS, PACS and PCA. Presently, approved service vendors who require access to these systems are required to undergo personnel risk assessments through CIP-004-6, just as internal staff that needs similar access to these systems. Entity use of these services is often necessary to augment internal expertise or tools to perform these highly specialized duties necessary for the reliable operation of the BES or when project based work requires temporary vendor service providers to work on BES related equipment or software. The current draft of CIP-005-7, Requirement R3 does not distinguish between those service vendors who are properly vetted and those who are not authorized for remote access. For this reason, we are concerned that without an exemption for those service could be negatively impacted by the proposed Reliability Standard modifications. Among the services that could be impacted include the use of very specialized IT services needed to manage EACMS for BES Cyber Systems. To address this concern, EEI asks the SDT to consider scenarios where registered entities may use service vendors that would require vendor initiated remote access to EACMS for the purpose of enhancing or maintaining BES reliability and security.		
Dislikes 0		
Response		
Leonard Kula - Independent Electricity S	ystem Operator - 2	
Answer		
Document Name		
Comment		
Request that NERC notify the industry when posting an update or an additional document after announcing that project's comment and/or ballot period. We suggest that industry wants to provide feedback on the corrected, up-to-date documents.		

Likes 0

Response		
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable		
Answer		
Document Name		
Comment		
the BES. Proposed Reliability Standard CIP-005-7 does not provide a mechanism that exempts vendors who are providing essential contract services such as security access monitoring, logging and control through remote access to High and Medium Impact BES Cyber Systems, and associated EACMS, PACS and PCA. Presently, approved service vendors who require access to these systems are required to undergo personnel risk assessments through CIP-004-6, just as internal staff that needs similar access to these systems. Entity use of these services is often necessary to augment internal expertise or tools to perform these highly specialized duties necessary for the reliable operation of the BES or when project based work requires temporary vendor service vendors who are properly vetted and those who are not authorized for remote access. For this reason, we are concerned that without an exemption for those service vendors that have already been vetted through the asset owner's CIP-004-6 process, many registered entities who safely and effectively use these services could be negatively impacted by the proposed Reliability Standard modifications. Among the services that could be impacted include the use of very specialized IT services needed to manage EACMS for BES Cyber Systems. To address this concern, EEI asks the SDT to consider scenarios where registered entities may use service vendors that would require vendor initiated remote access to EACMS for the purpose of enhancing or maintaining BES reliability and security.		
Likes 0		
Likes 0 Dislikes 0		
Dislikes 0		
Dislikes 0	Energy - MidAmerican Energy Co 3	
Dislikes 0 Response	Energy - MidAmerican Energy Co 3	
Dislikes 0 Response Darnez Gresham - Berkshire Hathaway I	Energy - MidAmerican Energy Co 3	
Dislikes 0 Response Darnez Gresham - Berkshire Hathaway I Answer	Energy - MidAmerican Energy Co 3	
Dislikes 0 Response Darnez Gresham - Berkshire Hathaway I Answer Document Name Comment MidAmerican supports EEI comments. Mid	American also requests the standard drafting team consider adding language regarding CIP Exceptional rgency procurements. The absence of such language could result in a Registered Entity having to choose	
Dislikes 0 Response Darnez Gresham - Berkshire Hathaway I Answer Document Name Comment MidAmerican supports EEI comments. Mid Circumstances or other provisions for emer	American also requests the standard drafting team consider adding language regarding CIP Exceptional rgency procurements. The absence of such language could result in a Registered Entity having to choose	

Response			
Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott			
Answer			
Document Name			
Comment			
ITC is Abstaining			
Likes 0			
Dislikes 0			
Response			
Terry Harbour - Berkshire Hathaway Energy - MidAmerican Energy Co 1,3			
Answer			
Document Name			
Comment			
MidAmerican supports EEI comments. MidAmerican also requests the standard drafting team consider adding language regarding CIP Exceptional Circumstances or other provisions for emergency procurements. The absence of such language could result in a Registered Entity having to choose between compliance and reliability in an emergency situation.			
Likes 0			
Dislikes 0			
Response			
Andrea Barclay - Georgia System Operations Corporation - 4			
Answer			
Document Name			
Comment			
GSOC and GTC notes that the replacement of the term "determine" with the term "detect" in CIP-005-7, R2.4 (now 3.1) creates significant technical issues and may be infeasible. More specifically, the revision to the term "detect" pre-supposes a technical method to automatically delineate or differentiate vendor–initiated sessions from other active remote access sessions, which may be technically infeasible. In the previous version of the Guidelines and Technical Basis, a method to identify all types of remote access and an ability to terminate vendor sessions was considered appropriate. This distinction is important because methods for identifying active remote access sessions.			

appropriate. This distinction is important because methods for identifying active remote access sessions may be able to identify active sessions, but may not be able to differentiate those sessions that are vendor-initiated. Accordingly, once active sessions are identified, human or manual intervention

may be necessary to hone in on those sessions that are vendor-initiated, e.g., through use of dedicated vendor identification numbers or access names. For these reasons, GSOC and GTC recommends that the SDT revert the proposed revisions to use the term "determine."		
Likes 0		
Dislikes 0		
Response		
Gladys DeLaO - CPS Energy - 1,3,5		
Answer		
Document Name		
Comment		
CPS Energy appreciates the standards draft	ing team efforts and supports mitigating risks to the BES in a cost effective manner across industry.	
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		
Document Name		
Comment		
We would like to thank the SDT for allowing us to comment on the proposed changes.		
Likes 0		
Dislikes 0		
Response		
Jose Avendano Mora - Edison International - Southern California Edison Company - 1		
Answer		
Document Name		
Comment		
Please see comments submitted by Edison Electric Institute		

Likes 0			
Dislikes 0			
Response			
Constantin Chitescu - Ontario Power Generation Inc 5			
Answer			
Document Name			
Comment			
OPG supports the NPCC Regional Standards Committee comments.			
Likes 0			
Dislikes 0			
Response			