Comment Report

Project Name:2016-03 Cyber Security Supply Chain Management | SAR October 2016Comment Period Start Date:10/20/2016Comment Period End Date:11/18/2016Associated Ballots:11/18/2016

There were 24 sets of responses, including comments from approximately 24 different people from approximately 23 companies representing 8 of the Industry Segments as shown in the table on the following pages.

Questions

1. Do you agree with the proposed scope for Project 2016-03 as described in the SAR? If you do not agree, or if you agree but have comments or suggestions for the project scope please provide your recommendation and explanation.

2. Provide any additional comments for the Standards 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
ACES Power Marketing Ben Engelby 6	ngelby 6		ACES Standards Collaborators - CIP	Mike Brytowski	Great River Energy	1,3,5,6	MRO	
				Ginger Mercier	Prairie Power, Inc.	3	SERC	
					Tara Lightner	Sunflower Electric Power Corporation	1	SPP RE
					Shari Heino	Brazos Electric Power Cooperative, Inc.	1,5	Texas RE
				Bill Watson	Old Dominion Electric Cooperative	3,4	RF	
				Cassie Williams	Golden Spread Electric Cooperative	3,5	SPP RE	
			Scott Brame	North Carolina Electric Membership Corporation	3,4,5	SERC		
				Ryan Strom	Buckeye Power, Inc.	3,4,5	RF	
					Bob Solomon	Hoosier Energy Rural Electric Cooperative, Inc.	1	RF
					Eric Jensen	Arizona Electric Power Cooperative, Inc.	1	WECC
				Bill Hutchison	Southern Illinois Power Cooperative	1	SERC	
				Greg Froehling	Rayburn Country Electric Cooperative, Inc.	3	SPP RE	
					Kevin Lyons	Central Iowa	1	MRO

						Power Cooperative		
					Carl Behnke	Southern Maryland Electric Cooperative	3	RF
					Susan Sosbe	Wabash Valley Power Association	3	SERC
Duke Energy	Colby Bellville	1,3,5,6	FRCC,RF,SERC		Doug Hils	Duke Energy	1	RF
					Lee Schuster	Duke Energy	3	FRCC
					Dale Goodwine	Duke Energy	5	SERC
					Greg Cecil	Duke Energy	6	RF
Con Ed - Consolidated Edison Co. of	Dermot Smyth	3,4,5,6	NPCC	Con Edison	Dermot Smyth	Con Edison Company of New York	1,3,5,6	NPCC
New York					Edward Bedder	Orange & Rockland		NPCC
Lower Colorado River Authority	Michael Shaw	1,5,6		LCRA	Teresa Cantwell	LCRA	1	Texas RE
				Compliance	Dixie Wells	LCRA	5	Texas RE
					Michael Shaw	LCRA	6	Texas RE
Southern Company - Southern Company Services, Inc.	Pamela Hunter 1,3,5,6	la Hunter 1,3,5,6		Southern Company	Katherine Prewitt	Southern Company Services, Inc.	1	SERC
					R. Scott Moore	Alabama Power Company	3	SERC
					William D. Shultz	Southern Company Generation	5	SERC
					Jennifer G. Sykes	Southern Company Generation and Energy Marketing	6	SERC
Northeast	Ruida Shu	uida Shu 1,2,3,4,5,6,7,10 NPCC	NPCC	RSC	Paul Malozewski	Hydro One.	1	NPCC
Power Coordinating Council				Guy Zito	Northeast Power Coordinating Council	NA - Not Applicable	NPCC	
					Randy MacDonald	New Brunswick Power	2	NPCC

Wayne Sipperly	New York Power Authority	4	NPCC
David Ramkalawan	Ontario Power Generation	4	NPCC
Glen Smith	Entergy Services	4	NPCC
Brian Robinson	Utility Services	5	NPCC
Bruce Metruck	New York Power Authority	6	NPCC
Alan Adamson	New York State Reliability Council	7	NPCC
Edward Bedder	Orange & Rockland Utilities	1	NPCC
David Burke	UI	3	NPCC
Michele Tondalo	UI	1	NPCC
Sylvain Clermont	Hydro Quebec	1	NPCC
Si Truc Phan	Hydro Quebec	2	NPCC
Helen Lainis	IESO	2	NPCC
Laura Mcleod	NB Power	1	NPCC
MIchael Forte	Con Edison	1	NPCC
Quintin Lee	Eversource Energy	1	NPCC
Kelly Silver	Con Edison	3	NPCC
Peter Yost	Con Edison	4	NPCC
Brian O'Boyle	Con Edison	5	NPCC
Greg Campoli	NY-ISO	2	NPCC
Kathleen Goodman	ISO-NE	2	NPCC
Silvia Parada Mitchell	NextEra Energy, LLC	4	NPCC
Sean Bodkin	Dominion	4	NPCC
Michael Schiavone	National Grid	1	NPCC
Michael Jones	National Grid	3	NPCC

Lower Teresa Colorado Cantwell River Authority				Michael Shaw	LCRA	6	Texas RE	
			Dixie Wells	LCRA	5	Texas RE		
			Teresa Cantwell	LCRA	1	Texas RE		
Midcontinent Terry Bllke ISO, Inc.	2	IRC-SRC	Kathleen Goodman	ISONE	2	NPCC		
				Ben Li	IESO	2	NPCC	
					Terry Bilke	MISO	2	RF
				Greg Campoli	NYISO	2	NPCC	
					Mark Holman	PJM	2	RF
				Charles Yeung	SPP	2	SPP RE	
Oxy - Venona G Occidental Chemical	Venona Greaff	enona Greaff 7	Оху	Venona Greaff	Occidental Chemical Corporation	7	SERC	
				Michelle D'Antuono	Ingleside Cogeneration LP.	5	Texas RE	

1. Do you agree with the proposed scope for Project 2016-03 as described in the SAR? If you do not agree, or if you agree but have comments or suggestions for the project scope please provide your recommendation and explanation.

Thomas Foltz - AEP - 3,5				
Answer	No			
Document Name				
Comment				
specificity of the SAR leaves little room for drafting team to allow for flexibility based of Cyber System(s). The SAR could include a st supply chain process. This may better focus	suggests a broader approach to the drafting team's efforts to achieve the directive set forth by FERC. The debate and interpretation, as evidenced by the first draft of the standard. Specifically, AEP encourages the on size of entity and size of vendor as well as the impact category and other attributes of the affected BES tatement that there are specific security vulnerabilities or controls to be addressed in a procurement or s the drafting team on implementing the most effective standard possible. quickly, but holding a technical conference on the first draft of the standard seems premature when the			
Likes 0				
Dislikes 0				
Response				
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,10 - NPCC, Group Name RSC			
Answer	No			
Document Name				
Comment				
We have suggestions on				
1) Purpose,				
2) Industry Need,				
3) Brief Description				
4) Detailed Description to better define this project's scope.				
For Purpose, we have three recommendation	ons			
 change "supply chain management" to "supply chain risk management"; 				

B) change "and implement a plan that includes security controls for supply chain management for" to "and implement measures for supply chain risk management for";

C) copy the final industry need sentence to the Purpose – "The new or modified Reliability Standard(s) is intended to reduce the risk of a cyber security incident affecting the reliable operation of the Bulk-Electric System."

Supply chain management is the flow of goods, services and resources that involve the movement, storage and maintenance of material for work in progress. Supply chain risk management is a subset of supply chain management. For this SAR, supply chain risk management should focus on the risks associated with sourcing and servicing BES Cyber System Components from external entities.

For Industry Need, we have one recommendation – change "On July 21, 2016, FERC issued Order No. 829 directing NERC to develop a forwardlooking, objective-driven new or modified Reliability Standard(s) that addresses" to "On July 21, 2016, FERC issued Order No. 829 directing NERC to develop a forward-looking, objective-driven, risk-based new or modified Reliability Standard(s) that addresses"

For Brief Description, we have one recommendation – update the Brief Description to be consistent with our proposed changes to the Purpose and Industry Need.

For Detailed Description, we have one recommendation – change "The plan may apply different controls based on the criticality of different assets (Order No. 829 at P44)" to "The plan may apply different measures based on the criticality of different assets (Order No. 829 at P44)"

Likes 0					
Dislikes 0					
Response					
Kara Douglas - NRG - NRG Energy, Inc 3,4,5,6 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF					
Answer	No				
Document Name					
Comment					
consider impact rating criteria first, and then Chain Risk Management Standard. Likes 0	factor in a risk based approach. NRG recommends that the SAR states correctly that the draft is a Supply				
Dislikes 0					
Response					
Wendy Center - U.S. Bureau of Reclamation - 5 - WECC					
Answer	No				
Document Name					
Comment					

Due to the possible complexity of creating a workable new standard, Reclamation recommends that a pilot program be developed to invite any entity to volunteer to test and implement a draft of the standard prior to it being finalized. During the pilot program, vendors are also invited to participate in order to work out any verification processes of the standard. Once the standard is finalized, the enforcement of the standard should apply to facilities that are rated as high impact facilities on the first year, facilities that are rated as medium impact on the second year, and facilities that are rated as low impact on the third year.

Likes 0					
Dislikes 0					
Response					
faranak sarbaz - Los Angeles Department of Water and Power - 1,3,5,6					
Answer	No				
Document Name					
Comment					
providing some updates in the current CIP s Interactive Remote Access Management fo Connectivity. This objective can be better s	bly Chain Management "– The four objectives listed under this new CIP standard can be better served by Standards. Specifically, Objective 2 below, is already included in the current standard for CIP-005-5 R2 r High Impact BES Cyber Systems and Medium Impact BES Cyber Systems with External Routable erved by providing updates to the CIP-005-5 Requirement R2.				
	by its best practices processes of requiring any IT related purchases to go through a review and approval tems Division. This objective can be better served through an update to the current CIP-003-6 Standard.				
In summary, the Objectives of the Cyber Se current Version 5 and Version 6 CIP Standa	ecurity Supply Chain Management can be efficiently and effectively implemented through updates on the ards.				
Cyber Security Supply Chain Management Objectives:					
1. Software integrity and authenticity;					
2. Vendor remote access;					
3. Information system planning; and					
4. Vendor risk management and proce	urement controls.				
Likes 0					
Dislikes 0					
Response					
Dermot Smyth - Con Ed - Consolidated E	Edison Co. of New York - 3,4,5,6 - NPCC, Group Name Con Edison				
Answer	Yes				
Document Name					

Comment				
Answer above should be No. System not SAR.	allowing me to change it. Con Edison Company of New York supports NPCC RSC's comments on this			
Likes 0				
Dislikes 0				
Response				
Colby Bellville - Duke Energy - 1,3,5,6 - F	RCC,SERC,RF, Group Name Duke Energy			
Answer	Yes			
Document Name				
Comment				
	project, in that the scope of the project appears to stem directly from FERC Order 829. ation is made that there is a possibility that revisions to CIP standards may be a solution, and not just the			
Likes 0				
Dislikes 0				
Response				
Maryclaire Yatsko - Seminole Electric Co	operative, Inc 1,3,4,5,6 - FRCC			
Answer	Yes			
Document Name				
Comment				
Information stored at vendor locations. As o	d the proposed SAR. Seminole further suggests that the SAR specifically address BES Cyber Security cloud information storage is the predominate trend, clarity of requirements for vendors related to both and vendor responsibilities for information stored in the cloud should be addressed at least in the Guidelines			
Likes 0				
Dislikes 0				
Response				
Michael Shaw - Lower Colorado River Authority - 1,5,6, Group Name LCRA Compliance				

Answer	Yes				
Document Name					
Comment					
Objective 1- "Integrity of software and patches" Comment for Internal LCRA -There are lot of whitepapers on Software Integrity Levels(SIL). We might need to come up with Software Integrity levels for each control system and develop contractual language with the respective vendor to accept that Level and the associated responsibilities/SLAs. We will need to work with Purchasing to develop the new language Objective 3 – Comment for SAR- on Information system planning- What is Information system planning?. Not well understood. The SAR information					
does not adequately that describe beyond entities needing to document the risks we take into consideration. Would like to see additional description on Information System Planning					
Likes 0					
Dislikes 0					
Response					
Johnny Anderson - IDACORP - Idaho Po	wer Company - 1				
Answer	Yes				
Document Name					
Comment					
Idaho Power believes that tightening purcha vendors that derive a large portion of their b have a larger customer base may not be as the supply chain standard should be laid ou perspective requirements like many other C Idaho Power believes that such a significan to clearly define the requirements of what m verify that requirements are met. Idaho Pow suppliers and any sub-suppliers. Idaho Pow higher costs for materials, which would impa	e would like consideration given to the following: asing controls too tightly could also pose a risk because there are limited vendors that service its needs. The business from the electric industry would likely be willing to adapt to such new requirements. Providers that willing to adjust to practices to meet any new requirements. Due to this concern, Idaho Power believes that t in terms of requirements built around controls that are developed by the regulated entity rather than Providers that around controls that are developed by the regulated entity rather than Providers that are developed by the regulated entity rather than Providers that are developed by the regulated entity rather than Providers that are developed by the regulated entity rather than Providers that undertaking will take years to develop and implement. Idaho Power believes that such a proposal will need to the impacted. It would also need to set forth the types of documentation that could be used to atterials should be impacted. It would also need to set forth the types of documentation that could be used to an other entities would then need time to add language to its contracts to ensure compliance by its per believes that such a process would require significant time, money, and resources and would result in act Idaho Power's customers. Idaho Power believes it would be valuable for NERC to look into whether other essed such a requirement as a starting point for such reliability standards.				
Likes 0					
Dislikes 0					
Response					
Linsey Ray - Oncor Electric Delivery - NA	A - Not Applicable - Texas RE				
Answer	Yes				
Document Name					

Comment

Title of Proposed Standard(s): Cyber Security – Supply Chain Risk Management

Oncor recommends changing the title to more closely reflect the FERC directive. The intent is to manage risk associated with the supply chain. Calling out controls in the title could be interpreted as adding specific controls to the process and not fully evaluating the risks associated with the supply chain process. This is also called out in paragraph 1 of the order "... develop a new or modified Reliability Standard that addresses supply chain risk management for industrial control system hardware...".

In addressing Objective 3 (Information system planning), the SDT shall develop requirement(s) that address the applicable entities' CIP Senior Manager (or delegate) identification and documentation of security risks for consideration by the applicable entity in proposed information system planning. (Order No. 829 at P 56)

Oncor recommends adding the word "security" to this statement. If taken out of context, the standard could be seen as opening it up to all risks associated with information system planning. This interpretation could be expanded greatly beyond the original intent of improving reliability through a secure Information Technology system. Examples of risks that should be considered 'out of scope' would include product delivery timing and special packaging requirements. While paragraph 56 doesn't specifically call out security, the intent of Order 829 clearly focuses on ensuring the security of key BES cyber systems and components.

In addressing Objective 4 (Vendor risk management and procurement controls), the SDT shall develop requirement(s) for applicable entities to address the provision and verification of the following security concepts, at a minimum, in future contracts for industrial control system hardware, software, and computing and networking services associated with BES operations. (Order No. 829 at P 59)

Oncor recommends removing the phrase "at a minimum" from this section. The phrase could encourage an audit team to expect or request more evidence than intended by this objective. This phrase is not mentioned in paragraph 59; "verification of relevant security concepts_in future contracts for industrial control system hardware,".

Likes 0				
Dislikes 0				
Response				
Venona Greaff - Oxy - Occidental Chemical - 7, Group Name Oxy				
Answer	Yes			
Answer Document Name	Yes			

Occidental Chemical Corporation agrees with the proposed scope of Project 2016-03 as described in the SAR but offers the following suggestions:

- Purpose section of SAR states that the project will cover "security controls for supply chain management" but should probably be revised to state that it will cover "security controls for supply chain *risk* management" to be consistent with FERC Order 829 and the Industry Need section of the SAR.
- Purpose section of SAR states that the new or modified Reliability Standard(s) will require entities to "develop and implement a plan" the SAR shouldn't assume that the agreed upon approach will be a "plan" and should be revised to read "develop and implement measures". This will allow the SDT the most flexibility if it is later determined that a "plan" is not the best approach and will still allow for a "plan" if the entity determines that to be the best approach

Likes 0	
Dislikes 0	
Response	
Ben Engelby - ACES Power Marketing -	6, Group Name ACES Standards Collaborators - CIP
Answer	Yes
Document Name	
Comment	
the development of a new or modified Relia computing and networking services associa chain security, we believe the inclusion of L SAR should narrow its focus to the 'highest Low Impact aspects of their programs. Oth Impact External Routable Connectivity and All security advances and efficiencies desig down to the Medium Impact Facilities, and	omments on the Standards Authorization Request (SAR) written in response to <u>Order No. 829</u> that will direct ability Standard for supply chain risk management to industrial control system hardware, software, and ated with Bulk Electric System (BES) operations. While FERC clearly wants to advance the state of supply low Impact Cyber Assets will delay the SDT's ability to make the one year filing deadline. We believe the exatermark' first, to limit confusion, especially as entities prepare for implementing activities that address the ber SDTs continue to enhance related NERC CIP standards based on changes to the definitions for Low Transient Cyber Assets. gned for large-sized utilities, including their choice of software and hardware vendors, will eventually pass ultimately to the Low Impact Facilities, through better IT security testing and best practices. This natural ure, something we feel should be allowed reflected within in the SAR.
Likes 0	
Dislikes 0	
Response	
Teresa Cantwell - Lower Colorado River	Authority - 1,5,6, Group Name LCRA Compliance
Answer	Yes
Document Name	
Comment	
Objective 3 – Regarding Information Syster	m Planning - What is Information System Planning? It is not well understood. The SAR information does not beding to document the risks we take into consideration. We would like to see additional description on
Objective 3 – Regarding Information System adequately describe that beyond entities ne	
Objective 3 – Regarding Information Syster adequately describe that beyond entities ne Information System Planning.	

Preston Walker - PJM Interconnection, L.L.C 2 - SERC,RF				
Answer	Yes			
Document Name				
Comment				
comments when developing the standard. based as opposed to impact based. PJM a	oject 2016-03 Cyber Security Supply Chain Management SAR and asks the SDT to consider the following As stated within paragraph 42 of the order, PJM agrees with the APPA that the standard should be risk lso asks the SDT to consider addressing the additional threats outlined within the order in paragraphs 25 e.g. hardware integrity) either within addressing the four objectives outlined in the order or by adding an			
Likes 0				
Dislikes 0				
Response				
Sophia Combs - Salt River Project - 1,3,5	i,6 - WECC			
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				
Pamela Hunter - Southern Company - Southern Company Services, Inc 1,3,5,6 - SERC, Group Name Southern Company				

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
John Williams - Tallahassee Electric (Cit	y of Tallahassee, FL) - 1,3,5
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Stephanie Little - APS - Arizona Public S	ervice Co 1,3,5,6
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Leonard Kula - Independent Electricity System Operator - 2	
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0	
Response	
Allie Gavin - International Transmission	Company Holdings Corporation - 1 - MRO,SPP RE,RF
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michelle Coon - Open Access Technolog	y International, Inc NA - Not Applicable - NA - Not Applicable
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Terry Bllke - Midcontinent ISO, Inc 2, G	roup Name IRC-SRC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

2. Provide any additional comments for the Standards Drafting Team to consider, if desired.	
Teresa Cantwell - Lower Colorado River Authority - 1,5,6, Group Name LCRA Compliance	
Answer	
Document Name	
Comment	
No additional comments	
Likes 0	
Dislikes 0	
Response	
Terry Bllke - Midcontinent ISO, Inc 2, G	roup Name IRC-SRC
Answer	
Document Name	
Comment	
The IRC members ask the Standard Drafting Team (SDT) to consider the following comments when developing the standard. As stated within paragraph 42 of the order, the IRC members agree with the APPA that the standard should be risk based as opposed to impact based. The IRC members also ask the SDT to consider addressing the additional threats outlined within the order in paragraphs 25 (e.g. counterfeits, tampering, etc.) and 50 (e.g. hardware integrity) either within the four objectives outlined in the order or by adding an additional objective.	
Likes 0	
Dislikes 0	
Response	
Wendy Center - U.S. Bureau of Reclamat	ion - 5 - WECC
Answer	
Document Name	
Comment	
Reclamation recommends that the CIP language be written to account for existing Government procurement constraints; or exempt the government entities that are legally bound by federal procurement regulations.	
Likes 0	

Dislikes 0

Response	
Kara Douglas - NRG - NRG Energy, Inc 3,4,5,6 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF	
Answer	
Document Name	
Comment	
N/A	
Likes 0	
Dislikes 0	
Response	
Michelle Coon - Open Access Technology International, Inc NA - Not Applicable - NA - Not Applicable	
Answer	
Document Name	
Comment	

Open Access Technology international, Inc. (OATI) appreciates this opportunity to submit comments pertaining to the Cyber Security Supply Chain Management Standards Authorization Request (SAR). Tackling such a large and important issue is no easy feat. Yet, the standard drafting team has already demonstrated their commitment to this difficult and important task by creating a new draft standard for the most recent technical conference. Continued dedication to this effort will help ensure the new reliability standard is consistent and equally applicable to necessary areas of the bulk electric system.

As a committed provider of software solutions and services to the electric utility sector, OATI plans to participate in the standard drafting process to the fullest extent possible. There are significant challenges ahead that can benefit from OATI's perspective into all of the various aspects of the electric utility reliability. OATI has identified two significant challenges: consistency in application and manageability.

OATI observes a need to develop a consistent approach to applying this standard across the industry, large and small vendors, niche and cross-sector vendors. This will include taking into consideration the fact that some vendors which also focus heavily in other industries, may be less willing to accommodate a utility's need to meet this new NERC reliability standard. Smaller utilities, especially, could be presented with a "take it or leave it" proposition from vendors such as Microsoft, CISCO, or Dell. Additionally, there is a special issue presented by the widespread use of open source software in many software solutions today. A standard should not apply only to one subset of vendors/software. Rather, to avoid a discriminatory impact, the standard should be equally applicable to all in-scope vendors/ software solutions. While this issue of consistency presents many challenges, OATI stands eager to share ideas for reaching a reasonable resolution.

Another related challenge is one of manageability. To facilitate a manageable approach, OATI observes a need for NERC to establish a common baseline standard applicable to all in scope vendors/software. This should help avoid issues on both sides of the supply chain. Absent a baseline, utilities may each develop a variety of inconsistent approaches to meeting the objectives of the standard. Such inconsistency is likely to create major problems for vendors as they verify compliance with the standard. The downstream impact of such inconsistent approaches is an increased burden on vendors who may each develop a unique way to meet the objectives passed onto them. Fortunately, much work has already been completed by the Department of Energy and the National Institute of Standards and Technology in this area of supply chain security that will be helpful in defining the baseline for this industry. These existing approaches should be considered and leveraged in the development of this new CIP supply chain

management standard. OATI looks forward to working closely with NERC, industry members, and other vendors in shaping this new reliability standard. A special thanks to NERC for its inclusion of the vendors in this important and necessary effort. Together we can successfully develop a consistent and manageable standard to mitigate this cybersecurity vulnerability in the bulk electric system. Likes 0 Dislikes 0 Response Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,10 - NPCC, Group Name RSC Answer **Document Name** Comment We also recommend that the SDT seriously consider updating existing CIP Standards in order to avoid creating double jeopardy for A) remote access (CIP-005 R2); patch management (CIP-007 R2); B) C) authentication (CIP-007 R5); vendor termination of employees (CIP-004 R5); D) We recommend that new Requirements do not jeopardize existing Requirements and their implementation timelines, and that new Requirements do not create additional paperwork with little value to the Reliable Operation of the Bulk Electric System. Likes 0 Dislikes 0 Response Ben Engelby - ACES Power Marketing - 6, Group Name ACES Standards Collaborators - CIP Answer **Document Name** Comment If the SDT proposes to modify Low Impact requirements, we recommend maintaining them in Attachment 1 of NERC Standard CIP-003-6. Additions to

Section 3: Access Controls could be made for future patch management requirements. We believe Section 4: Cyber Security Incident Response could be modified to include vendor remote termination access within a specified timeframe. The new definition of Transient Cyber Device could also be used as the location for baseline configuration management.

We believe all Low Impact processes should be non-prescriptive and provide flexibility for registered entities to decide how to best defend against cyber

security threats based on their risk analysis. There may be significant advantages and protection for industry to adopt new supply chain requirements for those entities that have multiple vendors and large support staff. We believe that BES risks and economies of scale for G&T cooperatives are minimal, based on their size and geographical location within the BES.		
Thank you for your time and attention regarding this SAR.		
Likes 0		
Dislikes 0		
Response		
Allie Gavin - International Transmission	Company Holdings Corporation - 1 - MRO,SPP RE,RF	
Answer		
Document Name		
Comment		
ITC Holdings finds this new standard to be ovrely burdensome for smaller utilities that do not have the infrastructure or staffing to perform the activities.		
Likes 0		
Dislikes 0		
Response		
Leonard Kula - Independent Electricity S	ystem Operator - 2	
Answer		
Document Name		
Comment		
The IESO suggests the Standard Drafting Team (SDT) consider the following comments when developing the standard. As stated within paragraph 42 of the order, the IESO agrees that the standard should be risk based as opposed to impact based. The IESO also suggests the SDT consider addressing the additional threats outlined within the order in paragraphs 25 (e.g. counterfeits, tampering, etc.) and 50 (e.g. hardware integrity) either within the four objectives outlined in the order or by adding an additional objective.		
Likes 0		
Dislikes 0		
Response		
Thomas Foltz - AEP - 3,5		
Answer		
Document Name		

Comment AEP suggests that any supply chain cyber security requirements applicable to low impact BES Cyber Systems be written in a revised CIP-003, Requirement R2, Attachment 1. Likes 0 Dislikes 0 Response Michael Shaw - Lower Colorado River Authority - 1,5,6, Group Name LCRA Compliance Answer **Document Name** Comment None Likes 0 Dislikes 0 Response Colby Bellville - Duke Energy - 1,3,5,6 - FRCC,SERC,RF, Group Name Duke Energy Answer **Document Name** Comment We would like to point out the potential need for future modifications on other CIP standards as a result of this project. Specifically, there may be some language conflicts that arise, or duplicative controls put in place. Also, some ability will need to be afforded to entities allowing for the capability of verifying with a vendor, the integrity and authenticity of its software. Next, we feel like the language in the SAR should be revised to reflect a concentration on security controls for supply chain risk management, rather

Lastly, we want to point out to the drafting team the importance of keeping separate the topics of operations versus supply chain. We can see where instances may occur wherein the language of a standard can be intended to focus on supply chain aspects, but to the reader, may bleed over into the operations space.

than just security controls for supply chain management. We feel the added emphasis on risk is appropriate in this context.

Likes 0	
Dislikes 0	
Response	

Rachel Coyne - Texas Reliability Entity, Inc 10	
Answer	
Document Name	
Comment	
This SAR, if approved, allows the Standards Drafting Team (SDT) to develop new or modified Critical Infrastructure Protection (CIP) Standard(s) for	

Inis SAR, if approved, allows the Standards Dratting Team (SDT) to develop new or modified Critical Infrastructure Protection (CIP) Standard(s) for supply chain management to address the Federal Energy Regulatory Commission (FERC) directives contained in Order No. 829. Texas RE supports developing new CIP Standard(s) to address supply chain management, which should be applicable to high, medium, and low impact BES Cyber Systems. Modifying existing CIP Standard(s) has caused confusion in the industry in regard to implementation dates. For example, CIP-003-6, added low impact Requirements, with multiple implementation dates.

Likes 0	
Dislikes 0	
Response	