

Comment Report

Project Name: 2016-03 Cyber Security Supply Chain Risk Management | CIP-005-6, CIP-010-3, CIP-013-1
Comment Period Start Date: 5/2/2017
Comment Period End Date: 6/15/2017
Associated Ballots: 2016-03 Cyber Security Supply Chain Risk Management CIP-005-6 IN 1 ST
2016-03 Cyber Security Supply Chain Risk Management CIP-010-3 IN 1 ST
2016-03 Cyber Security Supply Chain Risk Management CIP-013-1 AB 2 ST

There were 101 sets of responses, including comments from approximately 220 different people from approximately 141 companies representing 10 of the Industry Segments as shown in the table on the following pages.

Questions

1. The SDT has revised requirements for developing and implementing supply chain cyber security risk management plans (CIP-013-1 Requirements R1 – R3) in response to stakeholder comments. Do you agree with the proposed requirements? If you do not agree, or if you agree but have comments or suggestions for the proposed requirements, please provide your recommendation and explanation.
2. The SDT developed proposed CIP-005-6 Requirement R2 Parts 2.4 and 2.5 to address the Order No. 829 directives for controls on vendor-initiated remote access to BES Cyber Systems covering both user-initiated and machine-to-machine vendor remote access. The SDT followed an approach recommended by stakeholders during the initial posting of CIP-013-1. Do you agree with proposed revisions in CIP-005-6? If you do not agree, or if you agree but have comments or suggestions, please provide your recommendation and explanation.
3. The SDT developed proposed CIP-010-3 Requirement R1 Part 1.6 to address the Order No. 829 directive for entities to address verification of software integrity and authenticity in the BES Cyber System environment (P 48). The SDT followed an approach recommended by stakeholders during the initial posting of CIP-013-1. Do you agree with proposed revisions in CIP-010-3? If you do not agree, or if you agree but have comments or suggestions for the proposed requirement, please provide your recommendation and explanation.
4. The SDT removed low-impact BES Cyber Systems from the applicability in CIP-013-1 and is not proposing any new requirements for these cyber systems. The SDT believes that the proposed applicability to high and medium impact BES Cyber Systems appropriately focuses industry resources on supply chain cyber security risk management for industrial control system hardware, software, and computing and networking services associated with BES operations, as specified in Order No. 829. Do you agree with the SDT's removal of low impact BES Cyber Systems from CIP-013-1? If you do not agree, or if you agree but have comments or suggestions, please provide your recommendation and explanation.
5. The SDT revised the Implementation Plan in response to stakeholder comments. Do you agree with the Implementation Plan for the requirements in Project 2016-03? If you do not agree, or if you agree but have comments or suggestions for the Implementation Plan, please provide your recommendation and explanation.
6. The SDT revised the Violation Severity Levels (VSLs) for requirements in CIP-013-1, CIP-005-6, and CIP-010-3. Do you agree with the Violation Risk Factors (VRFs) and Violation Severity Levels (VSLs) for the proposed requirements? If you do not agree, or if you agree but have comments or suggestions for the VRFs and VSLs, please provide your recommendation and explanation.
7. The SDT developed draft Implementation Guidance for CIP-013 to provide examples of how a Responsible Entity could comply with the requirements. The draft Implementation Guidance does not prescribe the only approach to compliance. Rather, it describes some approaches the SDT believes would be effective ways to comply with the standard. See NERC's [Compliance Guidance policy](#) for information on Implementation Guidance. Do you agree with the example approaches in the draft Implementation Guidance? If you do not agree, or if you agree but have comments or suggestions for the draft Implementation Guidance, please provide your recommendation and explanation.
8. The SDT believes proposed CIP-013-1 and the draft Implementation Guidance provide entities with flexibility to meet the reliability objectives in a cost effective manner. Do you agree? If you do not agree, or if you agree but have suggestions for improvement to enable additional cost effective approaches, please provide your recommendation and, if appropriate, technical justification.

9. Provide any additional comments for the SDT 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 |
|--|------------------|------------|--------|-------------------------|-------------------|---|-------------------------|---------------------|
| FirstEnergy - FirstEnergy Corporation | Aaron Ghodooshim | 1,3,4,5,6 | RF | FirstEnergy Corporation | Aaron Ghodooshim | FirstEnergy - FirstEnergy Corporation | 4 | RF |
| | | | | | Aubrey Short | FirstEnergy - FirstEnergy Corporation | 1 | RF |
| | | | | | Theresa Ciancio | FirstEnergy - FirstEnergy Corporation | 3 | RF |
| | | | | | Robert Loy | FirstEnergy - FirstEnergy Solutions | 5 | RF |
| | | | | | Ann Ivanc | FirstEnergy - FirstEnergy Solutions | 6 | RF |
| Southern Company - Southern Company Services, Inc. | Brandon Cain | 1,3,5,6 | SERC | Southern Company | Katherine Prewitt | Southern Company - Southern Company Services, Inc. | 1 | SERC |
| | | | | | R. Scott Moore | Southern Company - Alabama Power Company | 3 | SERC |
| | | | | | William D. Shultz | Southern Company - Southern Company Generation | 5 | SERC |
| | | | | | Jennifer Sykes | Southern Company - Southern Company Generation and Energy Marketing | 6 | SERC |
| Luminant - Luminant Energy | Brenda Hampton | 6 | | Luminant | Brenda Hampton | Luminant - Luminant Energy | 6 | Texas RE |
| | | | | | Stewart Rake | Luminant Mining Company LLC | 7 | Texas RE |

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|----------------------------|-----------------|-----------|--|--------------------------------|-----------------------|---|---------------------|---------------------|
| | | | | | Alshare Hughes | Luminant - Luminant Generation Company LLC | 5 | Texas RE |
| Tennessee Valley Authority | Brian Millard | 1,3,5,6 | SERC | Tennessee Valley Authority | Scott, Howell D. | Tennessee Valley Authority | 1 | SERC |
| | | | | | Grant, Ian S. | Tennessee Valley Authority | 3 | SERC |
| | | | | | Thomas, M. Lee | Tennessee Valley Authority | 5 | SERC |
| | | | | | Parsons, Marjorie S. | Tennessee Valley Authority | 6 | SERC |
| Duke Energy | Colby Bellville | 1,3,5,6 | FRCC,RF,SERC | Duke Energy | Doug Hils | Duke Energy | 1 | RF |
| | | | | | Lee Schuster | Duke Energy | 3 | FRCC |
| | | | | | Dale Goodwine | Duke Energy | 5 | SERC |
| | | | | | Greg Cecil | Duke Energy | 6 | RF |
| SRC | David Francis | 1,2 | FRCC,MRO,NPCC,RF,SERC,SPP RE,Texas RE,WECC | SRC + SWG | Gregory Campoli | New York Independent System Operator | 2 | NPCC |
| | | | | | Mark Holman | PJM Interconnection, L.L.C. | 2 | RF |
| | | | | | Charles Yeung | Southwest Power Pool, Inc. (RTO) | 2 | SPP RE |
| | | | | | Terry Blilke | Midcontinent ISO, Inc. | 2 | RF |
| | | | | | Elizabeth Axson | Electric Reliability Council of Texas, Inc. | 2,3 | Texas RE |
| | | | | | Ben Li | IESO | 1 | MRO |
| | | | | | Drew Bonser | SWG | NA - Not Applicable | NA - Not Applicable |
| | | | | | Darrem Lamb | CAISO | 2 | WECC |
| Seattle City Light | Ginette Lacasse | 1,3,4,5,6 | WECC | Seattle City Light Ballot Body | Pawel Krupa | Seattle City Light | 1 | WECC |
| | | | | | Hao Li | Seattle City Light | 4 | WECC |
| | | | | | Bud (Charles) Freeman | Seattle City Light | 6 | WECC |

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|---------------------------------------|------------|---|--|-------------------------|-----------------|---|-----|------|
| | | | | | Mike Haynes | Seattle City Light | 5 | WECC |
| | | | | | Michael Watkins | Seattle City Light | 1,4 | WECC |
| | | | | | Faz Kasraie | Seattle City Light | 5 | WECC |
| | | | | | John Clark | Seattle City Light | 6 | WECC |
| | | | | | Tuan Tran | Seattle City Light | 3 | WECC |
| | | | | | Laurrie Hammack | Seattle City Light | 3 | WECC |
| Entergy | Julie Hall | 6 | | Entergy/NERC Compliance | Oliver Burke | Entergy - Entergy Services, Inc. | 1 | SERC |
| | | | | | Jaclyn Massey | Entergy - Entergy Services, Inc. | 5 | SERC |
| Associated Electric Cooperative, Inc. | Mark Riley | 1 | | AECI & Member G&Ts | Mark Riley | Associated Electric Cooperative, Inc. | 1 | SERC |
| | | | | | Brian Ackermann | Associated Electric Cooperative, Inc. | 6 | SERC |
| | | | | | Brad Haralson | Associated Electric Cooperative, Inc. | 5 | SERC |
| | | | | | Todd Bennett | Associated Electric Cooperative, Inc. | 3 | SERC |
| | | | | | Michael Bax | Central Electric Power Cooperative (Missouri) | 1 | SERC |
| | | | | | Adam Weber | Central Electric Power Cooperative (Missouri) | 3 | SERC |
| | | | | | Ted Hilmes | KAMO Electric Cooperative | 3 | SERC |
| | | | | | Walter Kenyon | KAMO Electric Cooperative | 1 | SERC |

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|--------------------------------------|--------------------|----------------------|------|-----------------|-------------------------------|---|---------------------|----------|
| | | | | | Stephen Pogue | M and A Electric Power Cooperative | 3 | SERC |
| | | | | | William Price | M and A Electric Power Cooperative | 1 | SERC |
| | | | | | Mark Ramsey | N.W. Electric Power Cooperative, Inc. | 1 | SERC |
| | | | | | Kevin White | Northeast Missouri Electric Power Cooperative | 1 | SERC |
| | | | | | Skyler Wiegmann | Northeast Missouri Electric Power Cooperative | 3 | SERC |
| | | | | | John Stickley | NW Electric Power Cooperative, Inc. | 3 | SERC |
| | | | | | Jeff Neas | Sho-Me Power Electric Cooperative | 3 | SERC |
| | | | | | Peter Dawson | Sho-Me Power Electric Cooperative | 1 | SERC |
| Lower Colorado River Authority | Michael Shaw | 6 | | LCRA Compliance | Teresa Cantwell | LCRA | 1 | Texas RE |
| | | | | | Dixie Wells | LCRA | 5 | Texas RE |
| | | | | | Michael Shaw | LCRA | 6 | Texas RE |
| BC Hydro and Power Authority | Patricia Robertson | 1 | | BC Hydro | Patricia Robertson | BC Hydro and Power Authority | 1 | WECC |
| | | | | | Venkataramakrishnan Vinnakota | BC Hydro and Power Authority | 2 | WECC |
| | | | | | Pat G. Harrington | BC Hydro and Power Authority | 3 | WECC |
| | | | | | Clement Ma | BC Hydro and Power Authority | 5 | WECC |
| Northeast Power Coordinating Council | Ruida Shu | 1,2,3,4,5,6,7,8,9,10 | NPCC | RSC no Dominion | Paul Malozewski | Hydro One. | 1 | NPCC |
| | | | | | Guy Zito | Northeast Power Coordinating Council | NA - Not Applicable | NPCC |

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|-------------------|--|---|------|
| Randy MacDonald | New Brunswick Power | 2 | NPCC |
| Wayne Sipperly | New York Power Authority | 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 | Orange & Rockland Utilities | 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 |
| Kelly Silver | Con Edison | 3 | NPCC |
| Peter Yost | Con Edison | 4 | NPCC |
| Brian O'Boyle | Con Edison | 5 | NPCC |
| Michael Schiavone | National Grid | 1 | NPCC |
| Michael Jones | National Grid | 3 | NPCC |
| David Ramkalawan | Ontario Power Generation Inc. | 5 | NPCC |
| Quintin Lee | Eversource Energy | 1 | NPCC |
| Kathleen Goodman | ISO-NE | 2 | NPCC |
| Greg Campoli | NYISO | 2 | NPCC |
| Silvia Mitchell | NextEra Energy - Florida Power and Light Co. | 6 | NPCC |

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|-------------------------------------|--|----|--------|------------|--------------------|-------------------------------------|---------|---------------------|
| Midwest Reliability Organization | Russel Mountjoy | 10 | | MRO NSRF | Joseph DePoorter | Madison Gas & Electric | 3,4,5,6 | MRO |
| | | | | | Larry Heckert | Alliant Energy | 4 | MRO |
| | | | | | Amy Casucelli | Xcel Energy | 1,3,5,6 | MRO |
| | | | | | Michael Brytowski | Great River Energy | 1,3,5,6 | MRO |
| | | | | | Jodi Jensen | Western Area Power Administratino | 1,6 | MRO |
| | | | | | Kayleigh Wilkerson | Lincoln Electric System | 1,3,5,6 | MRO |
| | | | | | Mahmood Safi | Omaha Public Power District | 1,3,5,6 | MRO |
| | | | | | Brad Parret | Minnesota Power | 1,5 | MRO |
| | | | | | Terry Harbour | MidAmerican Energy Company | 1,3 | MRO |
| | | | | | Tom Breene | Wisconsin Public Service | 3,5,6 | MRO |
| | | | | | Jeremy Volls | Basin Electric Power Coop | 1 | MRO |
| | | | | | Kevin Lyons | Central Iowa Power Cooperative | 1 | MRO |
| Mike Morrow | Midcontinent Independent System Operator | 2 | MRO | | | | | |
| Scott Miller | Scott Miller | | SERC | MEAG Power | Roger Brand | MEAG Power | 3 | SERC |
| | | | | | David Weekley | MEAG Power | 1 | SERC |
| | | | | | Steven Grego | MEAG Power | 5 | SERC |
| Dominion - Dominion Resources, Inc. | Sean Bodkin | 6 | | Dominion | Connie Lowe | Dominion - Dominion Resources, Inc. | 3 | NA - Not Applicable |
| | | | | | Lou Oberski | Dominion - Dominion Resources, Inc. | 5 | NA - Not Applicable |
| | | | | | Larry Nash | Dominion - Dominion Virginia Power | 1 | NA - Not Applicable |
| | Shannon Mickens | 2 | SPP RE | | Shannon Mickens | Southwest Power Pool Inc. | 2 | SPP RE |

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|---------------------------------------|---------------|---------|----------------------------------|--------------------------------|---|---|---------------------|---------------------|
| Southwest Power Pool, Inc. (RTO) | | | | SPP Standards Review Group | Deborah McEndafffer | Midwest Energy, Inc | NA - Not Applicable | NA - Not Applicable |
| | | | | | Robert Gray | Board of Public Utilities (BPU) Kansas City, Kansas | 3 | SPP RE |
| | | | | | Louis Guidry | Cleco | 1,3,5,6 | SPP RE |
| | | | | | Megan Wagner | Westar Energy | 6 | SPP RE |
| PPL - Louisville Gas and Electric Co. | Shelby Wade | 1,3,5,6 | RF,SERC | PPL NERC Registered Affiliates | Charlie Freibert | LG&E and KU Energy, LLC | 3 | SERC |
| | | | | | Brenda Truhe | PPL Electric Utilities Corporation | 1 | RF |
| | | | | | Dan Wilson | LG&E and KU Energy, LLC | 5 | SERC |
| | | | | | Linn Oelker | LG&E and KU Energy, LLC | 6 | SERC |
| Oxy - Occidental Chemical | Venona Greaff | 7 | | Oxy | Venona Greaff | Occidental Chemical Corporation | 7 | SERC |
| | | | | | Michelle D'Antuono | Ingleside Cogeneration LP. | 5 | Texas RE |
| ACES Power Marketing | Warren Cross | 1,3,4,5 | MRO,RF,SERC,SPP RE,Texas RE,WECC | ACES Standards Collaborators | Arizona Electric Power Cooperative, Inc. | AEPC | 1 | WECC |
| | | | | | Hoosier Energy Rural Electric Cooperative, Inc. | HE | 1 | RF |
| | | | | | Sunflower Electric Power Corporation | SEPC | 1 | SPP RE |
| | | | | | Rayburn Country Electric Cooperative | RCEC | 3 | SPP RE |
| | | | | | Old Dominion Electric Cooperative | ODEC | 3,4 | SERC |
| | | | | | Brazos Electric Power Cooperative, Inc. | BRAZOS | 1,5 | Texas RE |

1. The SDT has revised requirements for developing and implementing supply chain cyber security risk management plans (CIP-013-1 Requirements R1 – R3) in response to stakeholder comments. Do you agree with the proposed requirements? If you do not agree, or if you agree but have comments or suggestions for the proposed requirements, please provide your recommendation and explanation.

Aaron Cavanaugh - Bonneville Power Administration - 1,3,5,6 - WECC

Answer No

Document Name

Comment

BPA disagrees with the language in Requirement R3 requiring the CIP Senior Manager or delegate approve the supply chain cyber security risk management plans. Other CIP standards, such as CIP-003-6, Requirement R1, require CIP Senior Manager approval of “policies,” not “plans.” In Order No. 829, the Federal Energy Regulatory Commission stated, “*Consistent with or similar to the requirement in Reliability Standard CIP-003-6, Requirement R1, the Reliability Standard should require the responsible entity’s CIP Senior Manager to review and approve the controls adopted to meet the specific security objectives identified in the Reliability Standard at least every 15 months.*” Order No. 829 at P46 (emphasis added). Requiring CIP Senior Manager approval of plans is not consistent or similar to requiring approval of policies because plans are more tactical and numerous than policies. CIP Senior Manager approval should apply only to overarching strategic documents, and not to approval of highly detailed plans for implementation of processes. Instead, CIP-013 should be added to the list of policies requiring CIP Senior Manager approval in CIP-003-6, Requirement R1.

Likes 0

Dislikes 0

Response

Gregory Campoli - New York Independent System Operator - 2

Answer No

Document Name

Comment

Recommend removing those items covered in CIP-005 and CIP-010 from CIP-013. There are substantive requirements being incorporated into CIP standards to perform functions for all BES Cyber Systems (to the extent possible), it is not clear there is a remaining need to for a separate standard requiring that those items be addressed during the procurement process. This appears to apply to software source and identity verification (now required “when the method to do so is available” by CIP-010) and determining active vendor remote access sessions (now required by CIP-005). Having a standard that requires you to perform the underlying function and also to take those functions into account during the procurement process is needless duplication that does not increase security or reliability and could result in compliance “double jeopardy.”

The Compliance and/or Implementation Guidance should make clear that, as long as evidence demonstrates that all items expressly identified in CIP-013, R1 are contained in a Supply Chain Cyber Security Management Plan or Plans, and are implemented pursuant to R2, entities will not be found out of compliance. More specifically, entities should not be subjected to CIP-013 noncompliance findings resulting from a difference of opinion concerning security adequacy

Likes 0

Dislikes 0

Response

Michael Brytowski - Michael Brytowski On Behalf of: Donna Stephenson, Great River Energy, 5, 3, 1, 6; - Michael Brytowski

Answer No

Document Name

Comment

GRE supports the NRECA comments.

In R1, NRECA recommends that the SDT reiterate “high and medium impact” each time BES Cyber System is used in the requirement parts. (This would be added to part 1.1, 1.2, and 1.2.5.) We also question why 1.2.1 and 1.2.2 is specific to “products or services provided to the Responsible Entity,” but 1.2.4 is not. We recommend adding this phrase to 1.2.4: “Disclosure by vendors of known vulnerabilities related to products or services provided to the Responsible Entity.”

Further, we recommend further clarification to the term “vendor.” We recommend explaining this term in the Guidelines and Technical Basis (GTB) section rather than the Rationale. The intent of the term “vendor” is not a Rationale for the standard. Additionally, there are a number of potential vendor scenarios which should be clarified in the GTB. The vendor explanation excludes other NERC Registered Entities, but it is not clear whether this exclusion also applies to other utilities not registered with NERC. It is also not clear whether the term vendor is intended to apply to contract employees, particularly those who may be using company issued computer equipment and receiving company developed security training. It would seem that the Transient Cyber Asset requirements already sufficiently mitigate this risk and additional requirements are not necessary. We also find that the term “system integrators” is not well understood and request further clarification.

Likes 0

Dislikes 0

Response

Timothy Reyher - Eversource Energy - 5

Answer No

Document Name

Comment

Comments:

Concerned that the R1 guidance provides details which are beyond the scope of R1

Request re-wording of R1 Part 1.2.1 and 1.2.4 to easily understand what is expected. These Parts appear to be duplicative. Guidance does not adequately distinguish between the Parts. One interpretation is that Part 1.2.1 is for products/services and that Part 1.2.4 is for vulnerabilities in the product. It is not clear if these Parts expect information sharing at the time of procurement or on-going?

In R1 Parts 1.2.1 and 1.2.2, the term “vendor-identified incident” is unclear. It could mean incidents that were identified by another party, specific to the products of a specific vendor. It could mean only incidents identified by the vendor. Suggest changing “identified to “acknowledged” or “confirmed.”

Definition of vendor is not a NERC defined term. The term “vendor” is also used in the proposed CIP-005.

Request more guidance for the term “vendor” and use cases. Guidance should prompt Entities to include their definition of “vendor” in their plan(s).

Recommend removing those items (CIP-013 R1 subparts 1.2.5 and 1.2.6) covered in CIP-005 and CIP-010 from CIP-013. There are substantive requirements being incorporated into CIP standards to perform functions for all BES Cyber Systems (to the extent possible), it is not clear there is a remaining need to for a separate standard requiring that those items be addressed during the procurement process. This appears to apply to software source and identity verification (now required “when the method to do so is available” by CIP-010) and determining active vendor remote access sessions (now required by CIP-005). Having a standard that requires you to perform the underlying function and also to take those functions into account during the procurement process is needless duplication that does not increase security or reliability and could result in compliance “double jeopardy.”

The Compliance and/or Implementation Guidance should make clear that, as long as evidence demonstrates that all items expressly identified in CIP-013, R1 are contained in a Supply Chain Cyber Security Management Plan or Plans, and are implemented pursuant to R2, entities will not be found out of compliance. More specifically, entities should not be subjected to CIP-013 noncompliance findings resulting from a difference of opinion concerning security adequacy.

Is there an expectation of the vendor to disclose non-public information in 1.2.4? Is this only during contracting or is there an expectation of new vulnerabilities to be disclosed?

{C}1.1 – Delete “planning for”. Or if the use of “planning for” in R1 creates a necessary distinction between 1.1 and 1.2, what is it?

- What is implied by *(ii) transitions from one vendor(s) to another vendor(s)*? Why is this distinction necessary? Wouldn't a vendor transition require a new contract? Does this refer to the act of severing existing remote access permissions? Subcontracting?

-

- R1.2.2: “Coordination of responses to vendor-identified incidents...”, it is not clear who should be doing the coordinating and why this is necessary. Suggest deleting.

Likes 0

Dislikes 0

Response

Rachel Coyne - Texas Reliability Entity, Inc. - 10

Answer

No

Document Name

Comment

Texas RE notes that the proposed standard is not responsive to the FERC directive. FERC Order No. 829 P. 59 specifically states “The new or modified Reliability Standard must address the provision and verification of relevant security concepts *in future contracts* for industrial control system hardware, software, and computing and networking services associated with bulk electric system operations.” The Note in Requirement R2, however, states: “Additionally, the following issues are beyond the scope of Requirement R2: (1) the actual *terms and conditions of a procurement contract*, and (2) vendor performance and adherence to a contract.” Texas RE agrees that it is unreasonable to hold a registered entity accountable for a vendor’s adherence to (or lack of adherence to) a contract. Texas RE agrees as the standard drafting team (SDT) claims obtaining specific controls in the negotiated contract may not be feasible at all times but Texas RE believes this is *best practice*. In fact, in most cases contracts for these types of systems typically include security provisions and set similar expectations as described in the standard. The proposed standards would prohibit the compliance monitor from verifying the registered entity implemented part 1.1 and sub-parts 1.2.1 through 1.2.7. Moreover, this verification is to ensure that the registered entities’ plans are consistent with the contract’s expectations and obligations of the parties.

Admittedly, there will be circumstances in which a contracts may not be consistent or silent as it pertains to the responsible entity’s security management plans (e.g. existing contracts or contracts in which the responsible entity was unable to negotiate the appropriate terms into the contract.) In those circumstances, other evidence should be provided demonstrating that the responsible entity has processes to ensure the vendor is expected/obligated to act consistently with the responsible entity’s cyber security risk management plans as it relates to the vendor’s products or services. Therefore, the contracts should remain in scope as to demonstrate the mapping of expectations from the plan to the contract as far as vendor interactions for those specific items included in the standard and to advance best practices leading to a more reliable BES.

Additionally, Texas RE has the following concerns:

- In the current CIP-013-1 version, the SDT elected to restrict the scope of the Supply Chain process to Medium and High Impact Bulk Electric System (BES) Cyber Systems, as well as exclude Physical Access Controls (PACS), Electronic Access Control and Monitoring Systems (EACMS), and Protected Cyber Assets (PCAs) from the scope of the Standard. In doing so, the SDT appeared to rely on a number of commenters that suggested that FERC Order No. 829, P. 59 excluded these types of devices. Specifically, these commenters pointed to the following language in the FERC Order: “The new or modified Reliability Standard must address the provision and verification of relevant security concepts in future contracts for industrial control system hardware, software, and computing and networking services associated with bulk electric system operations.” FERC Order No. 829, P. 59. Accordingly, it appears that the SDT has concluded that PACS, EACMS, and PCAs collectively do not fall within the scope of “industrial control system hardware” or “computing and networking services associated with bulk electric system operations.”

Texas RE is concerned PACS, EACMS, and PCAs *do* fall within the scope of “industrial control system hardware” and “computing and networking services associated with bulk electric system operations” as those terms are used in FERC Order No. 829. PACS, EACMS, and PCAs are foundational equipment within a network’s architecture. Moreover, these devices are vendor supported and exposed to the precise vulnerabilities identified in FERC’s supply chain directive. Given these facts, Texas RE does not believe there is either a basis in FERC Order No. 829 or, more importantly, a reliability-based rationale for excluding them from the scope of CIP-013-1.

- Page 7, Part 1.1: While FERC Order No. 829 specifically uses the term “hardware”, Texas RE notes the word “hardware” is not used in the standard language. Texas RE recommends replacing the word equipment with the term hardware in order to be consistent with the FERC Order.
- Page 8, Section 1.2.6: Texas RE recommends the SDT define or provide examples of the term “*system-to-system remote access*” as this is a broad term which can be interpreted in many different ways.

Likes 0

Dislikes 0

Response

Mark Riley - Associated Electric Cooperative, Inc. - 1, Group Name AECl & Member G&Ts

Answer No

Document Name

Comment

AECl supports NRECA's comments provided below:

In R1, NRECA recommends that the SDT reiterate “high and medium impact” each time BES Cyber System is used in the requirement parts. (This would be added to part 1.1, 1.2, and 1.2.5.) We also question why 1.2.1 and 1.2.2 is specific to “products or services provided to the Responsible Entity,” but 1.2.4 is not. We recommend adding this phrase to 1.2.4: “Disclosure by vendors of known vulnerabilities related to products or services provided to the Responsible Entity.”

Further, we recommend further clarification to the term “vendor.” We recommend explaining this term in the Guidelines and Technical Basis (GTB) section rather than the Rationale. The intent of the term “vendor” is not a Rationale for the standard. Additionally, there are a number of potential vendor scenarios which should be clarified in the GTB. The vendor explanation excludes other NERC Registered Entities, but it is not clear whether this exclusion also applies to other utilities not registered with NERC. It is also not clear whether the term vendor is intended to apply to contract employees, particularly those who may be using company issued computer equipment and receiving company developed security training. It would seem that the Transient Cyber Asset requirements already sufficiently mitigate this risk and additional requirements are not necessary. We also find that the term “system integrators” is not well understood and request further clarification.

Likes 0

Dislikes 0

Response

Jason Snodgrass - Georgia Transmission Corporation - 1

Answer No

Document Name

Comment

GTC supports NRECA comments:

In R1, NRECA recommends that the SDT reiterate “high and medium impact” each time BES Cyber System is used in the requirement parts. (This would be added to part 1.1, 1.2, and 1.2.5.) We also question why 1.2.1 and 1.2.2 is specific to “products or services provided to the Responsible Entity,” but 1.2.4 is not. We recommend adding this phrase to 1.2.4: “Disclosure by vendors of known vulnerabilities related to products or services provided to the Responsible Entity.”

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Likes 0

Dislikes 0

Response

William Harris - Foundation for Resilient Societies - 8

Answer

No

Document Name

Resilient Societies Comments - NERC Cyber Supply Chain Risk Management 2016-03.docx

Comment

The following comment covers several of the questions in one comment, submitted by the Foundation for Resilient Societies, Nashua, NH.

Likes 0

Dislikes 0

Response

Elizabeth Axson - Electric Reliability Council of Texas, Inc. - 2

Answer

No

Document Name

Comment

ERCOT joins the comments of the IRC with the exception of the comment on Requirement R1, Part 1.1.

Likes 0

Dislikes 0

Response

Janis Weddle - Public Utility District No. 1 of Chelan County - 6

Answer

No

Document Name

Comment

Chelan PUD appreciates the efforts of the drafting team to revise CIP-013 in response to comments and recommendations provided previously. Although there are significant improvements in this version of the Draft Standard, CHPD believes that the Standard should not be approved for the following reasons:

- Is not performance based and therefore not auditable
- Creates risk for the responsible entities due to lack of auditability
- Likely to be costly to vendors due to having to respond to various entity contract requests

CHPD has concerns about language related to procurement contracts, in particular use of master agreements, piggyback agreements, and evergreen agreements. To address these concerns and position CIP-013 as a performance based Standard, CHPD recommends that all references to “contracts” and most references to “procurement” be struck from CIP-013. However; the note in R2 should be maintained that states:

Note: Implementation of the plan does not require the Responsible Entity to renegotiate or abrogate existing contracts (including amendments to master agreements and purchase orders). Additionally, the following issues are beyond the scope of Requirement R2: (1) the actual terms and conditions of a procurement contract; and (2) vendor performance and adherence to a contract.

CHPD’s reasoning is that there are means other than vendor contract negotiations, contract language, and procurement processes to address and achieve the protections required by R1.2. It is immaterial how these protections are achieved. Focusing thinking and audit approach on contracts and procurement (even if specific contract terms are not in scope) limits flexibility, is unnecessarily prescriptive, and does not reflect performance-based principles. As such CHPD asks that R1.2 be revised as follows:

1.2. One or more process(es) for its newly procured BES Cyber Systems that address the following elements, as applicable:

(“new” meaning obtained after the implementation of CIP-013).

Note also that CHPD asks that the term “elements” be included in R1.2, as shown above, to clearly align with the VSLs for this requirement.

Associated guidance in the “Rationale for R1” and in the separate implementation guidance should be revised to reflect the change to a performance-based requirement in which contract terms and contract negotiations play no function in auditing. Contract terms might be used by an entity as evidence of performance, but there should be no expectation by audits in the Standard or implementation guidance that anything having to do with contracts or procurement processes is required. Ultimately, there should be no expectation that the protections be achieved solely through the procurement process. The objective is achieving each protection, not in how it is achieved.

The performance-based assessment requirements would be improved if worded in a way that allows the acceptance of any outcome reached by each Responsible Entity (e.g., “Each Responsible Entity shall and document the results of the assessment.”). The intent should be to create a dialog between the entities and vendors on these topics rather than just documented within contractual language.

Likes 0

Dislikes 0

Response

Haley Sousa - Public Utility District No. 1 of Chelan County - 5

Answer No

Document Name

Comment

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The performance-based assessment requirements would be improved if worded in a way that allows the acceptance of any outcome reached by each Responsible Entity (e.g., “Each Responsible Entity shall <insert performance activity> and document the results of the assessment.”). The intent should be to create a dialog between the entities and vendors on these topics rather than just documented within contractual language.

Likes 0

Dislikes 0

Response

Chad Bowman - Public Utility District No. 1 of Chelan County - 1

Answer

No

Document Name

Comment

Chelan PUD appreciates the efforts of the drafting team to revise CIP-013 in response to comments and recommendations provided previously. Although there are significant improvements in this version of the Draft Standard, CHPD believes that the Standard should not be approved for the following reasons:

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- Creates risk for the responsible entities due to lack of auditability
- Likely to be costly to vendors due to having to respond to various entity contract requests

CHPD has concerns about language related to procurement contracts, in particular use of master agreements, piggyback agreements, and evergreen agreements. To address these concerns and position CIP-013 as a performance based Standard, CHPD recommends that all references to “contracts” and most references to “procurement” be struck from CIP-013. However; the note in R2 should be maintained that states:

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CHPD’s reasoning is that there are means other than vendor contract negotiations, contract language, and procurement processes to address and achieve the protections required by R1.2. It is immaterial how these protections are achieved. Focusing thinking and audit approach on contracts and procurement (even if specific contract terms are not in scope) limits flexibility, is unnecessarily prescriptive, and does not reflect performance-based principles. As such CHPD asks that R1.2 be revised as follows:

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Associated guidance in the “Rationale for R1” and in the separate implementation guidance should be revised to reflect the change to a performance-based requirement in which contract terms and contract negotiations play no function in auditing. Contract terms might be used by an entity as evidence of performance, but there should be no expectation by audits in the Standard or implementation guidance that anything having to do with contracts or procurement processes is required. Ultimately, there should be no expectation that the protections be achieved solely through the procurement process. The objective is achieving each protection, not in how it is achieved.

The performance-based assessment requirements would be improved if worded in a way that allows the acceptance of any outcome reached by each Responsible Entity (e.g., “Each Responsible Entity shall <insert performance activity> and document the results of the assessment.”). The intent should be to create a dialog between the entities and vendors on these topics rather than just documented within contractual language.

Likes 0

Dislikes 0

Response

Sean Bodkin - Dominion - Dominion Resources, Inc. - 6, Group Name Dominion

Answer

No

Document Name

Comment

In the Response to Comments the SDT asserts “Identifying and assessing cyber security risks in BES Cyber System planning. The SDT revised CIP-013-1 Requirement R1 Part 1.1 to “specify risks that Responsible Entities shall consider in planning for procurement of BES Cyber Systems“. Previously, commenters indicated that “the scope of cyber security risks being addressed in R1 is unclear”. The SDT removed unnecessary and unclear wording from Requirement R1s main requirement and revised Requirement R1 Part 1.1 to clarify the supply chain cyber security risks that must be addressed by the Responsible Entity in planning for the procurement of BES Cyber Systems.”

This change does not clearly identify the risks as previously noted by commenters.

Dominion recommends the following language change for CIP-013-1, R1 Part 1.1:

“Include one or more process(es) used in planning for the procurement of BES Cyber Systems to identify and assess, if applicable, the cyber security risk(s) of (i) procuring and installing vendor equipment and software; (ii) network architecture security; and (iii) transitions between vendor”

Dominion also recommends the following proposed language change for CIP-013-1 R1 Part 1.2:

“One or more process(es) used during procurement of BES Cyber Systems that address the following, as applicable:”

R3 needs to contain the caveat found in R2 that “[Revision] of the plan does not require the Responsible Entity to renegotiate or abrogate existing contracts (including amendments to master agreements and purchase orders).”

Likes 0

Dislikes 0

Response

Mick Neshem - Public Utility District No. 1 of Chelan County - 3

Answer No

Document Name

Comment

Comments: Chelan PUD appreciates the efforts of the drafting team to revise CIP-013 in response to comments and recommendations provided previously. Although there are significant improvements in this version of the Draft Standard, CHPD believes that the Standard should not be approved for the following reasons:

- Is not performance based and therefore not auditable
- Creates risk for the responsible entities due to lack of auditability
- Likely to be costly to vendors due to having to respond to various entity contract requests

CHPD has concerns about language related to procurement contracts, in particular use of master agreements, piggyback agreements, and evergreen agreements. To address these concerns and position CIP-013 as a performance based Standard, CHPD recommends that all references to “contracts” and most references to “procurement” be struck from CIP-013. However; the note in R2 should be maintained that states:

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CHPD’s reasoning is that there are means other than vendor contract negotiations, contract language, and procurement processes to address and achieve the protections required by R1.2. It is immaterial how these protections are achieved. Focusing thinking and audit approach on contracts and procurement (even if specific contract terms are not in scope) limits flexibility, is unnecessarily prescriptive, and does not reflect performance-based principles. As such CHPD asks that R1.2 be revised as follows:

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Associated guidance in the “Rationale for R1” and in the separate implementation guidance should be revised to reflect the change to a performance-based requirement in which contract terms and contract negotiations play no function in auditing. Contract terms might be used by an entity as evidence of performance, but there should be no expectation by audits in the Standard or implementation guidance that anything having to do with contracts or procurement processes is required. Ultimately, there should be no expectation that the protections be achieved solely through the procurement process. The objective is achieving each protection, not in how it is achieved.

The performance-based assessment requirements would be improved if worded in a way that allows the acceptance of any outcome reached by each Responsible Entity (e.g., “Each Responsible Entity shall <insert performance activity> and document the results of the assessment.”). The intent should be to create a dialog between the entities and vendors on these topics rather than just documented within contractual language.

Likes 0

Dislikes 0

Response

Shawn Abrams - Santee Cooper - 1

Answer No

Document Name

Comment

The intent and purpose of CIP-013 is very dependent upon the Implementation Guidance document. We appreciate the hard work of the SDT to provide this document to industry and it has valuable information. A concern is that auditors can only audit to the requirements within the standard so some of the comments are based on needing more clarification within the standard itself.

Language should be included in the standard (not just in the Rationale) that allows for inclusion of a clause in a procurement agreement stating that CIP-013 compliance must be met by the supplier unless it is either not offered or would significantly increase the cost of the agreement. (See CIP-013-1, Section B, Rationale for Requirement R1). This language in a procurement agreement, along with the supplier's stipulation that this compliance is either unavailable or will increase costs should constitute proof that CIP-013 compliance was considered by the Registered Entity but waived due to the supplier's inability to accommodate the requirement in a reasonable manner.

The standard should make clear that, as long as evidence demonstrates that all items expressly identified in CIP-013, R1 are contained in a supply chain cyber security risk management plan or plans, and are implemented pursuant to R2, entities will not be found out of compliance. More specifically, entities should not be subjected to CIP-013 noncompliance findings resulting from a difference of opinion concerning security adequacy.

Santee Cooper is concerned about compliance obligations for procurement activities associated with multi-party wide-area contracts, master agreements and piggyback agreements. An exception, comparable to a CIP Exceptional Circumstance, should be included in the standard for these kinds of procurement activities.

This standard will create the need for entities to have an inventory tracking mechanism of products that are purchased under the supply chain risk management plan. For example, switches could be purchased for use in an IT department, not under the supply chain cyber security risk management plan, and this would preclude it from being used in a BES Cyber System. A CIP Exceptional circumstance or something similar should be added to the standard to allow an entity to use a piece of equipment not procured under the supply chain cyber security risk management plan rather than risk reliability of the BES.

Please add some wording to the requirement in the standard to address how far up the supply chain the plan applies to. If a laptop is purchased from a vendor is there an expectation that the cyber security risk management plan stop with that vendor or is there an expectation that the associated parts of the laptop fall under the plan? It's currently included in the rationale language but the rationale language cannot be audited.

What happens when a vendor is bought out by another vendor? Are you compliant until you have to negotiate a contract with the new vendor?

In R1 Parts 1.2.1 and 1.2.2, the term "vendor-identified incident" is unclear. It could mean incidents that were identified by another party, specific to the products of a specific vendor. It could mean only incidents identified by the vendor. Suggest changing "identified to "acknowledged" or "confirmed."

Likes 0

Dislikes 0

Response

Michael Haff - Seminole Electric Cooperative, Inc. - 1,3,4,5,6 - FRCC

Answer No

Document Name

Comment

Recommend modifying CIP-007 and CIP-010 to include the proposed risk management elements proposed in CIP-013, or take the corresponding elements out of CIP-007 and CIP-010 to make CIP-013 more than just having a plan. There are no quantifiable measures in CIP-013 that really justify it as a stand-alone standard.

Likes 0

Dislikes 0

Response

Anthony Jablonski - ReliabilityFirst - 10

Answer

No

Document Name

Comment

Even though ReliabilityFirst believes the CIP-013-1 draft standard address directives from Federal Energy Regulatory Commission (FERC) Order No. 829 and is a positive step in addressing cyber supply chain management, ReliabilityFirst Abstains mainly due to Requirement R1 missing Electronic Access Control or Monitoring Systems (EACMS), Physical Access Control Systems (PACS), and Protected Cyber Assets (PCAs). ReliabilityFirst offers the following specific comments for consideration.

1. Requirement R1

- i. Even though Electronic Access Control or Monitoring Systems (EACMS), Physical Access Control Systems (PACS), and Protected Cyber Assets (PCAs) were not specifically called out specifically in FERC Order 829, ReliabilityFirst believes the SDT needs to examine the possible risk of not including EACMS, PACS and PCA as part of Requirement R1 and go beyond what was stated in FERC Order 829. EACMs and PACS are critical cyber assets that control access and monitoring into the entities' ESPs and PSPs and should follow the Supply Chain standard/requirements as do the High and Medium Impact Cyber Systems. As for the PCAs, if they are compromised due to a vulnerability in the vendors supplied hardware or software, they can possibly affect high and medium impact BES Cyber Systems. ReliabilityFirst offers the following modifications for consideration:

- a. Each Responsible Entity shall develop one or more documented supply chain cyber security risk management plan(s) for high and medium impact BES Cyber System and, [if applicable, associated Electronic Access Control and Monitoring (EACM), Physical Access Control Systems (PACS) and Protected Cyber Assets (PCA)]. The plan(s) shall include:

Likes 0

Dislikes 0

Response

Patricia Robertson - BC Hydro and Power Authority - 1, Group Name BC Hydro

Answer

No

Document Name

Comment

- BC Hydro appreciates the direction of the revisions ie to remove enforcement actions against responsible entities that have limited ability to influence vendors. However, BC Hydro still believes some aspects of R1 will be difficult to manage / enforce, especially given the breadth of vendors many responsible entities have associated with their BCAs. Not all vendors are going to be able to accommodate the asks of the requirement.
- “Notification by the vendor...” suggests the vendor is expected to reach out to the responsible entity, and communication / transparency is endorsed through potential inclusion of terms in RFP’s / contracts. This relies on the vendor honesty / transparency and there is no way to verify their attestations. The requirement focuses on entities reviewing vendor processes which may have limited impact on reliability.

Likes 0

Dislikes 0

Response

Richard Kinas - Orlando Utilities Commission - 5

Answer No

Document Name

Comment

R1 states that each RE must have a plan with one or more processes that addressas applicable. Applicability is in the eye-of-beholder, however the requirement does not specifically say as identified by the Responsibility Entity, which auditors may take as a deliberate act not to include, interpreting that it is not up to the Responsibility Entity to determin which are applicable.

Likes 0

Dislikes 0

Response

Alex Ybarra - Public Utility District No. 2 of Grant County, Washington - 5

Answer No

Document Name

Comment

The clarification that we don’t have and would like from NERC/WECC is the intent of the following statement in CIP-013 R1.2.5 **“Verification of software integrity and authenticity of all software and patches provided by the vendor for use in the BES Cyber System”**. There is no Guidelines and technical basis at the end of the standard for this

This has a very large implication as this says all software provided by a vendor has to perform an integrity and authenticity verification.

This could implicate a dedicated channel from the vendor validating through software certificates which would imply entities forcing software vendors to provide this mechanism, which the likelihood of meeting this for MS, Symantec, (non-control system software) is slim. MD5 checksums can not validate the integrity of the software as this hashing mechanism was broken in 2005 (although a lot of software vendors still use it).

Likes 0

Dislikes 0

Response

Wendy Center - U.S. Bureau of Reclamation - 5

Answer

No

Document Name

Comment

Reclamation recommends the proposed standard differentiate between contractual and non-contractual purchases, such as commercial off-the-shelf (COTS) products or other purchases made without using a contract vehicle (e.g., credit card purchases or using repurposed equipment).

Likes 0

Dislikes 0

Response

Tho Tran - Oncor Electric Delivery - 1 - Texas RE

Answer

No

Document Name

Comment

Requirement R1.

Oncor agrees with the concept; however, Oncor believes the language for R1.1 should be revised as follows, *“(i) Responsible Entity procures and installs vendor equipment and software”*; and *“(ii) Responsible Entity transitions from one vendor(s) product or service to another vendor(s) product or service”*.

For Requirement 1.2.1., the current wording suggests that the vendor has sufficient knowledge of Oncor’s environment to know that a particular vulnerability does in fact pose a security risk to Oncor. We offer a recommendation on the language, *“Notification by the vendor of vendor-identified incidents related to the products or services provided to the Responsible Entity that could pose cyber security risk to the Responsible Entity;”*

Requirement 1.2.2. The current phrase “coordination of response” is not clear as to what is intended by “coordination”. We offer a recommendation on the language, *“Coordination of response activities by the vendor and the Responsible Entity to address vendor-identified incidents related to the products or services provided to the Responsible Entity that pose cyber security risk to the Responsible Entity;”*

Requirement 1.2.3. The current wording suggests that the vendor has sufficient knowledge of Oncor to determine whether or not an individual should no longer be granted access. Oncor is the only party to an agreement that has the ability to determine who should or should not have access. We offer a recommendation on the language, *“Circumstances where vendors should notify the Responsible Entity that access requirements of the vendor or third party personnel has changed, based on CIP-004, R5.”*

Requirement 1.2.4. The current wording is not clear as to which vulnerabilities are applicable. We offer a recommendation on the language, *“Disclosure by vendors of known vulnerabilities in the procured product or service that follows a responsible disclosure process”*; Guidance should also be added to reference US-CERT, NIST, or other industry sources.

Requirement 1.2.6. Oncor suggests the following wording change as the use of the phrase “Coordination of controls” is confusing. We offer a recommendation on the language, *“Controls for; (i) vendor-initiated Interactive Remote Access, and (ii) system-to-system remote access with a vendor(s).”*

Likes 0

Dislikes 0

Response

Andrew Meyers - Bonneville Power Administration - 6

Answer

No

Document Name

Comment

BPA disagrees with the language in Requirement R3 requiring the CIP Senior Manager or delegate approve the supply chain cyber security risk management plans. Other CIP standards, such as CIP-003-6, Requirement R1, require CIP Senior Manager approval of “policies,” not “plans.” In Order No. 829, the Federal Energy Regulatory Commission stated, *“Consistent with or similar to the requirement in Reliability Standard CIP-003-6, Requirement R1, the Reliability Standard should require the responsible entity’s CIP Senior Manager to review and approve the controls adopted to meet the specific security objectives identified in the Reliability Standard at least every 15 months.”* Order No. 829 at P46 (emphasis added). Requiring CIP Senior Manager approval of plans is not consistent or similar to requiring approval of policies because plans are more tactical and numerous than policies. CIP Senior Manager approval should apply only to overarching strategic documents, and not to approval of highly detailed plans for implementation of processes. Instead, CIP-013 should be added to the list of policies requiring CIP Senior Manager approval in CIP-003-6, Requirement R1.

Likes 0

Dislikes 0

Response

Barry Lawson - National Rural Electric Cooperative Association - 4

Answer

No

Document Name**Comment**

In R1, NRECA recommends that the SDT reiterate “high and medium impact” each time BES Cyber System is used in the requirement parts. (This would be added to part 1.1, 1.2, and 1.2.5.) We also question why 1.2.1 and 1.2.2 is specific to “products or services provided to the Responsible Entity,” but 1.2.4 is not. We recommend adding this phrase to 1.2.4: “Disclosure by vendors of known vulnerabilities related to products or services provided to the Responsible Entity.”

Further, we recommend further clarification to the term “vendor.” We recommend explaining this term in the Guidelines and Technical Basis (GTB) section rather than the Rationale. The intent of the term “vendor” is not a Rationale for the standard. Additionally, there are a number of potential vendor scenarios which should be clarified in the GTB. The vendor explanation excludes other NERC Registered Entities, but it is not clear whether this exclusion also applies to other utilities not registered with NERC. It is also not clear whether the term vendor is intended to apply to contract employees, particularly those who may be using company issued computer equipment and receiving company developed security training. It would seem that the Transient Cyber Asset requirements already sufficiently mitigate this risk and additional requirements are not necessary. We also find that the term “system integrators” is not well understood and request further clarification.

Likes 0

Dislikes 0

Response**Nicholas Lauriat - Network and Security Technologies - 1****Answer**

No

Document Name**Comment**

Requirements R1 and R2 essentially shift the burden for ensuring that BES Cyber System hardware and software vendors, resellers, and integrators follow sound security management practices onto individual Responsible Entities, which N&ST considers both unfair and unreasonable, for small entities in particular. The just-endorsed (by NERC) CIP-013 Implementation Guidance document suggests an entity could address R1.1’s requirement to “identify and assess cyber security risk(s) to the Bulk Electric System from vendor products or services” by means of a series of interactions with prospective vendors that comprise, for all intents and purposes, a risk assessment of the vendor, conducted by the entity. What recourse would a small entity have if a prospective supplier, perhaps the only one available, declined to cooperate with such an in-depth examination of its internal processes? R2, which requires the implementation of the entity’s R1 plan(s), acknowledges a vendor may be disinclined to agree to contractual obligations to support one or more specific elements of an entity’s R1 risk management plan. However, it contains no language that acknowledges this could make it difficult, if not impossible, for the entity to fully implement its R1 plan. N&ST believes this creates significant compliance risks for entities that may have few if any other options in some procurement situations. N&ST therefore recommends the addition of language similar to existing technical feasibility language in CIP-002 through CIP-011.

N&ST recommends that R2 be modified to state that a Responsible Entity has the option of describing its implementation of R1 Part 1.2.3 (revocation of vendor remote access privileges) in its CIP-004 Access Management and/or Access Revocation documentation.

N&ST recommends that R2 be modified to state that a Responsible Entity has the option of describing its implementation of R1 Part 1.2.6 (vendor remote access) in its CIP-005 ESP and Interactive Remote Access documentation.

N&ST recommends that R2 be modified to state that a Responsible Entity has the option of describing its implementation of R1 Part 1.2.5 (vendor software authenticity and integrity) in its CIP-010 Configuration Change Management documentation.

Initial CIP Senior Manager or delegate approval of risk management plan(s) should be added to R1. N&ST notes the initial implementation of R3 specified in the draft Implementation Plan is on or before the Effective Date. If that language is retained, there will be no need to add CIP Sr Manager or delegate approval to R1.

CIP-013 R2 and/or the Implementation Plan should contain “trigger” language for R2 that clarifies an entity must implement its R1 risk management plan(s) for new procurement contracts signed on or after the Effective Date of CIP-013. Entities with no new procurement contracts or no new in-progress procurements on the Effective Date should not be expected to be able to demonstrate compliance with R2 at that time.

Likes 0

Dislikes 0

Response

Don Schmit - Nebraska Public Power District - 5

Answer

No

Document Name

Comment

NPPD supports the comments submitted by the MRO NSRF for CIP-013. In addition:

NPPD is concerned that this Standard is not sufficiently represented to be auditable. First, the Standard is not performance based, which leads to auditor discretion, which leads to inconsistency among the Regional Entities across the NERC footprint. Second, the Implementation Guidance document has words that protect the entities from interpretation risk, however are not part of the Standard; which leaves the auditor to determine the intent of the drafting team. This is true in the rationale section for R1 which has wording which would minimize interpretation risk to entities, however are not reflected in the Standard. The Rationale states that the supplier must meet CIP-013 unless it is either not offered by the supplier or would significantly increase the cost of the agreement. This needs to be included in the Standard or as a footnote in the Standard. This would be very important to clarity in audit practices. In addition, the Standard should specifically state that as long as evidence demonstrates that all items expressly identified in R1 are contained in the “plan” and are implemented via R2 that entities shall not be out of compliance (there should be no findings for opinion on intent or security).

As with other recently produced CIP Standards, this Standard is being “rushed” to satisfy a FERC directive and without concise and clear wording, implementation considerations of all impacted parties, and the means for auditors to audit to a performance based Standard and understood audit practices. An extended comment/balloting period should be requested of NERC/FERC in order to produce an auditable Standard.

Other comments:

There are no parameters for Standard applicability. If a piece of equipment is purchased and the vendor and entity meet the Standard, do subsequent purchases of associated parts relative to the equipment or replacement parts of the equipment from other vendors need to also meet the Standard?

R1 Parts 1.2.1 and 1.2.2 “vendor-identified incident” is not clear. This needs to have clarity added in the Standard. In addition “identified” should be changed to “confirmed”.

CIP-013 R1 parts 1.2.5 and 1.2.6 are covered in CIP-005 and CIP-010. CIP-013 parts 1.2.5 and 1.2.6 should be removed to avoid duplication. The revised CIP-013 parts 1.2.5 and 1.2.6 appear to apply to software source and identity verification (now required “when the method to do so is available” by CIP-010) and determining active vendor remote access sessions (now required by CIP-005). Having CIP-013 parts that require entities to perform the underlying function and to take those functions into account during the procurement process is needless duplication that does not increase security or reliability and could result in compliance “double jeopardy.”

Likes 0

Dislikes 0

Response

Guy Andrews - Georgia System Operations Corporation - 4

Answer No

Document Name

Comment

GSOC supports NRECA's Comments of:

In R1, NRECA recommends that the SDT reiterate “high and medium impact” each time BES Cyber System is used in the requirement parts. (This would be added to part 1.1, 1.2, and 1.2.5.) We also question why 1.2.1 and 1.2.2 is specific to “products or services provided to the Responsible Entity,” but 1.2.4 is not. We recommend adding this phrase to 1.2.4: “Disclosure by vendors of known vulnerabilities related to products or services provided to the Responsible Entity.”

Further, we recommend further clarification to the term “vendor.” We recommend explaining this term in the Guidelines and Technical Basis (GTB) section rather than the Rationale. The intent of the term “vendor” is not a Rationale for the standard. Additionally, there are a number of potential vendor scenarios which should be clarified in the GTB. The vendor explanation excludes other NERC Registered Entities, but it is not clear whether this exclusion also applies to other utilities not registered with NERC. It is also not clear whether the term vendor is intended to apply to contract employees, particularly those who may be using company issued computer equipment and receiving company developed security training. It would seem that the Transient Cyber Asset requirements already sufficiently mitigate this risk and additional requirements are not necessary. We also find that the term “system integrators” is not well understood and request further clarification.

Likes 0

Dislikes 0

Response

Laura Nelson - IDACORP - Idaho Power Company - 1

Answer No

Document Name

Comment

Requirements 1.2 through 1.2.4. are extremely difficult to negotiate and implement with vendors, especially across such a diverse industry and diverse set of vendors. As written, the requirements make the vendor responsible for providing notifications to the Responsibility Entity. This puts the burden on the Responsible Entity to enforce these requirements through contractual obligations. The rationale states that “such contract enforcement is not subject to this Reliability Standard;” however, the performance of these requirements belongs solely to entities that are outside the jurisdiction of NERC and the Commission and can be held accountable only through contraction enforcement. As written, these specific reliability requirements put the Responsible Entities in a precarious position of acting as a surrogate regulator on a secondary industry.

If the intent is not to make the Responsible Entity accountable from a compliance stand point for the actions of vendors or other parties, the language should be written into the requirement wording. The clause in R2.2 states this exception, but does not then clarify what the Responsible Entity is obligated to do. The Responsible Entity is supposed to negotiate those terms, try to obtain that information, but if they can’t then is it still not a violation? Will the auditors also look at it from this perspective?

Furthermore, the language of the R1.2 to R1.2.4 should be changed to meet the SDT’s objectives while relying solely on the actions of the Responsible Entity and not those of any other party. However, if the intent is to include the items in R1.2 in the process for consideration of risk when selecting a vendor or product during the procurement process as the draft guidance seems to indicate, then those intentions should be explicit in the requirement language.

There is no issue with Requirement 3 requiring a periodic assessment of the supply chain cyber security risk management controls in order to update plans, etc. However, a recurring review by business unit stakeholders should be sufficient. The requirement to have the CIP Senior Manager or delegate approve the plan is simply a formality and is administrative in nature and provides no further security value.

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| Likes | 0 |
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| Dislikes | 0 |
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| Response |
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| Heather Morgan - EDP Renewables North America LLC - 5 | |
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| Answer | No |
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| Document Name | |
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| Comment |
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- Please provide clarification on what a “contract” is. For instance, is an annual software license a contract?
- Please provide feedback as to what Registered Entities should do if vendors refuse to the specifications within the CIP-013 requirements.
- Please provide further clarifications and expectations within Measure 2 to ensure entities are prepared for compliance oversight expectations.

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| Likes | 0 |
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| Dislikes | 0 |
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| Response |
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| Shannon Mickens - Southwest Power Pool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group | |
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|---------------|----|
| Answer | No |
|---------------|----|

Document Name**Comment**

SPP offers comments on the subrequirements of R1, as follows:

R1.1 – SPP recommends that subpart (i) be modified to accommodate the procurement “and/or” installation of vendor equipment “and/or” software and, further, requests clarification as to the intended meaning of the “transitions from one vendor(s) to another vendor(s)” concept within the context of subpart (ii).

1.2.1 – SPP recommends that “products or services” be modified to reference “products and/or services.”

1.2.2 – SPP requests clarification as to the “coordination” intended to be imposed, suggesting that the requirement may stand alone with any coordination component removed.

1.2.4 – SPP recommends that the 1.2.4 be modified to appropriately limit vendor disclosure of known vulnerabilities to the products and/or services provided to the Responsible Entity, consistent with 1.2.1. In addition, SPP notes that there is a lack of consistency between 1.2.1 and 1.2.4 with the use of the terms “vendor equipment” and “software” in 1.2.1, but uses the term “products” in subrequirement 1.2.4. SPP seeks clarification on whether the SDT intends “products” to be broader than equipment and software. SPP recommends that the SDT be consistent and use “vendor equipment” and “software” throughout, or provide additional clarification about the scope of the term “products.”

1.2.6- SPP requests clarification as to the “coordination” intended to be imposed, suggesting that the requirement may stand alone with the coordination component removed. SPP believes the “coordination of controls” may be interpreted as requiring the Responsible Entity and vendor to jointly develop and/or coordinate controls, rather than simply requiring the Responsible Entity to address the requisite remote access controls in its supply chain cyber security risk management plan(s). As drafted, SPP is concerned that it is unclear what is required for “coordination,” as well as how such coordination would be evidenced at audit.

Likes 0

Dislikes 0

Response

Kara White - NRG - NRG Energy, Inc. - 3,4,5,6 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF

Answer

No

Document Name**Comment**

NRG offers comments on the sub requirements of R1, as follows:

R1.1 – NRG recommends that subpart (i) be modified to accommodate the procurement “and/or” installation of vendor equipment “and/or” software and, further, requests clarification as to the intended meaning of the “transitions from one vendor(s) to another vendor(s)” concept within the context of subpart (ii).

1.2.1 – NRG recommends that “products or services” be modified to reference “products and/or services.”

1.2.2 – NRG requests clarification as to the “coordination” intended to be imposed, suggesting that the requirement may stand alone with any coordination component removed.

1.2.4 – NRG recommends that the 1.2.4 be modified to appropriately limit vendor disclosure of known vulnerabilities to the products and/or services provided to the Responsible Entity, consistent with 1.2.1. In addition, NRG notes that there is a lack of consistency between 1.2.1 and 1.2.4 with the use of the terms “vendor equipment” and “software” in 1.2.1, but uses the term “products” in sub requirement 1.2.4. NRG seeks clarification on whether the SDT intends “products” to be broader than equipment and software. NRG recommends that the SDT be consistent and use “vendor equipment” and “software” throughout, or provide additional clarification about the scope of the term “products.”

1.2.6- NRG requests clarification as to the “coordination” intended to be imposed, suggesting that the requirement may stand alone with the coordination component removed. NRG believes the “coordination of controls” may be interpreted as requiring the Responsible Entity and vendor to jointly develop and/or coordinate controls, rather than simply requiring the Responsible Entity to address the requisite remote access controls in its supply chain cyber security risk management plan(s). As drafted, NRG is concerned that it is unclear what is required for “coordination,” as well as how such coordination would be evidenced at audit.

Additionally: NRG is concerned that the R1 guidance provides details which are beyond the scope of R1.

NRG requests that the NERC SDT consider re-wording of R1 Part 1.2.1 and 1.2.4 to easily understand what is expected. These Parts appear to be duplicative. The Guidance does not adequately distinguish between the Parts. One interpretation is that Part 1.2.1 is for products/services and that Part 1.2.4 is for vulnerabilities in the product. It is not clear if these Parts expect information sharing at the time of procurement or on-going?

In R1 Parts 1.2.1 and 1.2.2, the term “vendor-identified incident” is unclear. It could mean incidents that were identified by another party, specific to the products of a specific vendor. It could mean only incidents identified by the vendor. Suggest changing “identified to “acknowledged” or “confirmed.”

Definition of vendor is not a NERC defined term. The term “vendor” is also used in the proposed CIP-005.

Request more guidance for the term “vendor” and use cases. Guidance should prompt Entities to include their definition of “vendor” in their plan(s).

NRG recommends removing those items (CIP-013 R1 subparts 1.2.5 and 1.2.6) that are covered in CIP-005 and CIP-010 from CIP-013. There are substantive requirements being incorporated into CIP standards to perform functions for all BES Cyber Systems (to the extent possible), it is not clear that there is a remaining need for a separate standard requiring that those items be addressed during the procurement process. This appears to apply to software source and identity verification (now required “when the method to do so is available” by CIP-010) and determining active vendor remote access sessions (now required by CIP-005). Having a standard that requires you to perform the underlying function and also to take those functions

into account during the procurement process is needless duplication that does not increase security or reliability and could result in compliance “double jeopardy.”

NRG requests SDT consideration that: The Compliance and/or Implementation Guidance should make clear that, as long as evidence demonstrates that all items expressly identified in CIP-013, R1 are contained in a Supply Chain Cyber Security Management Plan or Plans, and are implemented pursuant to R2, entities will not be found out of compliance. More specifically, NRG requests NERC SDT consideration of the assertion that Registered Entities should not be subjected to CIP-013 noncompliance findings resulting from a difference of opinion concerning security adequacy.

CIP-013-1 R1.2 – “One or more process(es) used in procuring BES Cyber Systems that address the following, as applicable: “ The term “as applicable” implies it is optional. Who determines whether something is applicable or not? NRG suggests that NERC SDT remove it or provide additional clarity.

CIP-013-1 R1.2.3, NRG has concerns that it is not clear when vendors have to notify if remote or onsite access should no longer be granted to vendor representatives. 2 hrs, 24 hrs, or 3 months?

Is there an expectation of the vendor to disclose non-public information in 1.2.4? Is this only during contracting or is there an expectation of new vulnerabilities to be disclosed?

1.1 – Delete “planning for”. Or if the use of “planning for” in R1 creates a necessary distinction between 1.1 and 1.2, what is it?

- What is implied by *(ii) transitions from one vendor(s) to another vendor(s)*? Why is this distinction necessary? Wouldn't a vendor transition require a new contract? Does this refer to the act of severing existing remote access permissions? Subcontracting?

-

- R1.2.2: “Coordination of responses to vendor-identified incidents....”, it is not clear who should be doing the coordinating and why this is necessary. NRG requests SDT consideration of suggestion to delete.

Furthermore, NRG requests NERC SDT consideration of the following comments:

· On page 6 of CIP-013 draft:

NRG requests that the NERC standard drafting team consider providing additional clarification to the following paragraph:

For example, entities can implement the plan by including applicable procurement items from their plan in Requests for Proposals (RFPs) and in negotiations with vendors. Obtaining specific controls in the negotiated contract may not be feasible and is not considered failure to implement an entity's plan. Although the expectation is that Responsible Entities would enforce the security-related provisions in the contract based on the terms and conditions of that contract, such contract enforcement and vendor performance or adherence to the negotiated contract is not subject to this Reliability Standard.

NRG requests that industry have the ability to accept a level of risk through internal risk assessment processes if a supplier is unwilling to negotiate and accept the cyber security terms into negotiated contracts.

· On page 6 of CIP-013 draft:

NRG requests that the NERC standard drafting team consider providing additional clarification to the following paragraph:

A *vendor*, as used in the standard, may include: (i) developers or manufacturers of information systems, system components, or information system services; (ii) product resellers; or (iii) system integrators.

NRG requests that the term vendor be further clarified to specify if meaning developers, product resellers or system integrators of “third-party” software, system components, or information system services, etc (versus internal company developers).

· On page 8 of CIP-013 draft (under R2):

NRG requests that the NERC standard drafting team consider providing additional clarification to the following paragraph:

Note: Implementation of the plan does not require the Responsible Entity to renegotiate or abrogate existing contracts (including amendments to master agreements and purchase orders). Additionally, the following issues are beyond the scope of Requirement R2: (1) the actual terms and conditions of a procurement contract; and (2) vendor performance and adherence to a contract.

NRG requests further understanding of what, if any expectations are to be included in T&Cs and what are the expectations of how the vendor will be expected to perform as the term “expectations” is listed on page 6 of the standard?

Likes 0

Dislikes 0

Response

LeRoy Patterson - Public Utility District No. 2 of Grant County, Washington - 6

Answer

No

Document Name

Comment

CIP-005 has had R2.4 and R2.5 added as they pertain to interactive user access and remote system to system access tracking. These were previously in the CIP-013 standard as part of the Supply Chain requirement. Due to CIP-005 R2 already dealing with an Intermediate system for Interactive Remote access, it seems logical that this requirement be expanded to include these.

The clarification that we don't have and would like from NERC/WECC is the intent of the following statement in CIP-013 R1.2.5 **"Verification of software integrity and authenticity of all software and patches provided by the vendor for use in the BES Cyber System"**. There is no Guidelines and technical basis at the end of the standard for this

This has a very large implication as this says all software provided by a vendor has to perform an integrity and authenticity verification.

This could implicate a dedicated channel from the vendor validating through software certificates which would imply entities forcing software vendors to provide this mechanism, which the likelihood of meeting this for MS, Symantec, (non-control system software) is slim. MD5 checksums can not validate the integrity of the software as this hashing mechanism was broken in 2005 (although a lot of software vendors still use it).

So we need clarification on this before a vote recommendation can be established for CIP-013 R1.

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| Likes | 0 |
| Dislikes | 0 |

Response

Mark Holman - PJM Interconnection, L.L.C. - 2

Answer

Yes

Document Name

Comment

PJM agrees, with the following suggested edits:

Within 1.2.1 and 1.2.2, PJM feels that "incident" need further clarification as it is a bit broad (i.e. could be interpreted as anything from a phishing attempt to an actual breach). PJM suggests it be narrowed down to actual breaches. Additionally, "security risk to the Responsible Entity" should be "security risk to the BES." Lastly, we like how the notification and coordination pieces are split out.

Within 1.2.3, PJM suggests changing "no longer be granted" to "should be revoked" to strengthen the language.

Within 1.2.5, PJM suggests adding in “firmware” and “where the method to do so is available” as to match the CIP-010 language.

Likes 0

Dislikes 0

Response

Jesus Sammy Alcaraz - Imperial Irrigation District - 1

Answer

Yes

Document Name

Comment

The understanding of the intent and purpose of CIP-013 is very dependent on the Implementation Guidance document. There is no guarantee that this document will be approved by NERC even if CIP-013 is approved.

Request clarification on whether the SDT intends “products” to be broader than equipment and software. Recommend that the SDT be consistent and use “vendor equipment” and “software” throughout, or provide additional clarification about the scope of the term “products.”

There are concerns about language related to procurement contracts, in particular use of master agreements, piggyback agreements, and evergreen agreements. To address these concerns and position CIP-013 as a performance based Standard, we recommend that all references to “contracts” and most references to “procurement” be struck from CIP-013, except the note in R2 that states:

Note: Implementation of the plan does not require the Responsible Entity to renegotiate or abrogate existing contracts (including amendments to master agreements and purchase orders). Additionally, the following issues are beyond the scope of Requirement R2: (1) the actual terms and conditions of a procurement contract; and (2) vendor performance and adherence to a contract.

Our reasoning is that there are means other than vendor contract negotiations, contract language, and procurement processes to address and achieve the protections required by R1.2. It is immaterial how these protections are achieved. Focusing thinking and audit approach on contracts and procurement (even if specific contract terms are not in scope) limits flexibility, is unnecessarily prescriptive, and does not reflect performance-based principles. As such we ask that R1.2 be revised as follows:

1.2. One or more process(es) used in procuring for its newly procured BES Cyber Systems that address the following elements, as applicable:

(“new” meaning obtained after the implementation of CIP-013).

Request that the term “elements” be included in R1.2, as shown above, to clearly align with the VSLs for this requirement.

Associated guidance in the “Rationale for R1” and in the separate implementation guidance should be revised to reflect the change to a performance-based requirement in which contract terms and contract negotiations play no function in auditing. Contract terms might be used by an entity as evidence of performance, but there should be no expectation by audits or subtext in the Standard or implementation guidance that anything having to do with contracts or procurement processes is required. There should be no expectation of what might or should be included within Requests for Proposals, no expectation of when contracts might or should be renegotiated, no expectations of what terms might or should be included or requested, and no expectations of what terms might or should be found in a prudent and proper contract. Ultimately, there should be no expectation that such protections be achieved solely through the procurement process. The objective is achieving each protection, not in how it is achieved.

In the absence of such a change, we requests substantial additional clarification about how, without contract terms and contract negotiations being auditable, performance of R2 implementation will be audited and assessed.

Likes 0

Dislikes 0

Response

Quintin Lee - Eversource Energy - 1

Answer

Yes

Document Name

Comment

Request re-wording of R1 Part 1.2.1 and 1.2.4 to easily understand what is expected. These Parts appear to be duplicative. Guidance does not adequately distinguish between the Parts. One interpretation is that Part 1.2.1 is for products/services and that Part 1.2.4 is for vulnerabilities in the product. It is not clear if these Parts expect information sharing at the time of procurement or on-going?

In R1 Parts 1.2.1 and 1.2.2, the term “vendor-identified incident” is unclear. It could mean incidents that were identified by another party, specific to the products of a specific vendor. It could mean only incidents identified by the vendor. Suggest changing “identified to “acknowledged” or “confirmed.

Recommend removing CIP-013 R1 subparts 1.2.5 and 1.2.6 from CIP-013 since these are covered in CIP-005 and CIP-010. There are substantive requirements being incorporated into CIP standards to perform functions for all BES Cyber Systems (to the extent possible), it is not clear there is a remaining need to for a separate standard requiring that those items be addressed during the procurement process. This appears to apply to software source and identity verification (now required “when the method to do so is available” by CIP-010) and determining active vendor remote access sessions (now required by CIP-005). Having a standard that requires you to perform the underlying function and also to take those functions into account during the procurement process is needless duplication that does not increase security or reliability and could result in compliance “double jeopardy.”

The Compliance and/or Implementation Guidance should make clear that, as long as evidence demonstrates that all items expressly identified in CIP-013, R1 are contained in a Supply Chain Cyber Security Management Plan or Plans, and are implemented pursuant to R2, entities will not be found out of compliance. More specifically, entities should not be subjected to CIP-013 noncompliance findings resulting from a difference of opinion concerning security adequacy.

Is there an expectation of the vendor to disclose non-public information in 1.2.4? Is this only during contracting or is there an expectation of new vulnerabilities to be disclosed?

{C}1.1 – Delete “planning for”. Or if the use of “planning for” in R1 creates a necessary distinction between 1.1 and 1.2, what is it?

- What is implied by *(ii) transitions from one vendor(s) to another vendor(s)*? Why is this distinction necessary? Wouldn't a vendor transition require a new contract? Does this refer to the act of severing existing remote access permissions? Subcontracting?

- R1.2.2: “Coordination of responses to vendor-identified incidents...”, it is not clear who should be doing the coordinating and why this is necessary. Suggest deleting.

Likes 0

Dislikes 0

Response

Stephanie Little - Stephanie Little

Answer

Yes

Document Name

Comment

AZPS agrees with the proposed requirements in CIP-013-1 subject to the below requests for clarification and recommended revisions/additions.

· AZPS requests that the SDT consider and provide guidance regarding the applicability of the requirements of CIP-013-1 where the traditional procurement process is not applicable to a particular purchase. For example, software that is purchased from a retail source rather than a vendor is often purchased subject to existing retail terms and conditions and without the opportunity to negotiate additional terms and conditions around the procurement.

· AZPS further recommends the following changes/additions:

· Requirement 1.2.4 - "Disclosure by vendors of known vulnerabilities **when they become known to the vendor.**"

· Requirement 1.2.5 as written is duplicative with CIP-010; hence, AZPS recommends this Requirement be deleted or revised to address the process for software integrity and authenticity, rather than actual verification of those.

· Requirement 1.2.6 – AZPS recommends removal of the word "coordination" and on the insertion of the term "identification" to address a process for identifying how a vendor handles controls.

· Requirement R2 – evidence may not be available for items that are purchased form a retail source, as noted above. AZPS recommends an exception be identified for this purpose.

Likes 0

Dislikes 0

Response

Brenda Hampton - Luminant - Luminant Energy - 6, Group Name Luminant

Answer

Yes

Document Name

Comment

Modify R1.2.5 as follows: "Verification of software integrity and authenticity of all software and patches provided by the vendor for use in the BES Cyber System when technically feasible; and". This will help address concerns with vendors such as Microsoft that pushes patches when they identify a need.

Add language to address allowable exception in the event of CIP Exceptional Circumstances for R2 (e.g. patches issued with ransomware attack in-progress needed immediate action to be taken).

Luminant would prefer that the CIP-013 standard be formatted similar to other CIP standards with the use of tables (e.g.CIP-004-6 Table R1).

Likes 0

Dislikes 0

Response

Linda Jacobson-Quinn - City of Farmington - 3

Answer Yes

Document Name

Comment

FEUS supports the comments submitted by APPA

Likes 0

Dislikes 0

Response

David Ramkalawan - Ontario Power Generation Inc. - 5

Answer Yes

Document Name

Comment

OPG request clarification, regarding R1.2.4, of whom the vulnerability must be known by to require disclosure and that it only be for the vendor's own products and only those supplied to the Responsible Entity. As stands, it might be interpreted that vulnerabilities might not need to be disclosed until publicly known, for products the Responsible Entity doesn't have, or for vulnerabilities the vendor might know in products other than its own. Suggest changing to "Disclosure by the vendor of vulnerabilities known to the vendor concerning products and services supplied by the vendor to the Responsible entity.

Requirement R1 Part 1.2.4 requires additional clarification for the type of "known vulnerabilities"

Vendor definition is required to avoid ambiguity; does the term vendor apply for contract employees/augmented staff/outsourcers?

Are the requirements R1-R3 enforceable in exceptional circumstances?

Likes 0

Dislikes 0

Response

Warren Cross - ACES Power Marketing - 1,3,4,5 - WECC,Texas RE,SERC,SPP RE,RF, Group Name ACES Standards Collaborators

Answer Yes

Document Name

Comment

ACES supports the requirements to reduce the risk of remote access management. Using the CIP Applicability Section reduces the previous confusion of what BES Cyber Assets are in scope.

Likes 0

Dislikes 0

Response

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion

Answer Yes

Document Name

Comment

Concerned that the R1 guidance provides details which are beyond the scope of R1

Request re-wording of R1 Part 1.2.1 and 1.2.4 to easily understand what is expected. These Parts appear to be duplicative. Guidance does not adequately distinguish between the Parts. One interpretation is that Part 1.2.1 is for products/services and that Part 1.2.4 is for vulnerabilities in the product. It is not clear if these Parts expect information sharing at the time of procurement or on-going?

In R1 Parts 1.2.1 and 1.2.2, the term “vendor-identified incident” is unclear. It could mean incidents that were identified by another party, specific to the products of a specific vendor. It could mean only incidents identified by the vendor. Suggest changing “identified to “acknowledged” or “confirmed.”

Definition of vendor is not a NERC defined term. The term “vendor” is also used in the proposed CIP-005.

Request more guidance for the term “vendor” and use cases. Guidance should prompt Entities to include their definition of “vendor” in their plan(s).

Recommending removing those items (CIP-013 R1 subparts 1.2.5 and 1.2.6) covered in CIP-005 and CIP-010 from CIP-013. There are substantive requirements being incorporated into CIP standards to perform functions for all BES Cyber Systems (to the extent possible), it is not clear there is a remaining need to for a separate standard requiring that those items be addressed during the procurement process. This appears to apply to software source and identity verification (now required “when the method to do so is available” by CIP-010) and determining active vendor remote access sessions (now required by CIP-005). Having a standard that requires you to perform the underlying function and also to take those functions into account during the procurement process is needless duplication that does not increase security or reliability and could result in compliance “double jeopardy.”

The Compliance and/or Implementation Guidance should make clear that, as long as evidence demonstrates that all items expressly identified in CIP-013, R1 are contained in a Supply Chain Cyber Security Management Plan or Plans, and are implemented pursuant to R2, entities will not be found out of compliance. More specifically, entities should not be subjected to CIP-013 noncompliance findings resulting from a difference of opinion concerning security adequacy.

Is there an expectation of the vendor to disclose non-public information in 1.2.4? Is this only during contracting or is there an expectation of new vulnerabilities to be disclosed?

1.1 – Delete “planning for”. Or if the use of “planning for” in R1 creates a necessary distinction between 1.1 and 1.2, what is it?

- What is implied by *(ii) transitions from one vendor(s) to another vendor(s)*? Why is this distinction necessary? Wouldn’t a vendor transition require a new contract? Does this refer to the act of severing existing remote access permissions? Subcontracting?

-

R1.2.2: “Coordination of responses to vendor-identified incidents...”, it is not clear who should be doing the coordinating and why this is necessary. Suggest deleting.

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| Likes 1 | Chantal Mazza, N/A, Mazza Chantal |
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| Dislikes 0 | |
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Response

Brandon Cain - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - SERC, Group Name Southern Company

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| Answer | Yes |
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| Document Name | |
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Comment

See below comments.

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| Likes 0 | |
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| Dislikes 0 | |
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Response

Teresa Cantwell - Lower Colorado River Authority - 1

Answer Yes

Document Name

Comment

No comment.

Likes 0

Dislikes 0

Response

John Martinsen - Public Utility District No. 1 of Snohomish County - 4

Answer Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Long Duong - Public Utility District No. 1 of Snohomish County - 1

Answer Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Mark Oens - Snohomish County PUD No. 1 - 3

Answer Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Sam Nietfeld - Public Utility District No. 1 of Snohomish County - 5

Answer Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Franklin Lu - Snohomish County PUD No. 1 - 6

Answer Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Randy Buswell - VELCO -Vermont Electric Power Company, Inc. - 1

Answer Yes

Document Name

Comment

Request re-wording of R1 Part 1.2.1 and 1.2.4 to easily understand what is expected. These Parts appear to be duplicative. Guidance does not adequately distinguish between the Parts. One interpretation is that Part 1.2.1 is for products/services and that Part 1.2.4 is for vulnerabilities in the product. It is not clear if these Parts expect information sharing at the time of procurement or on-going?

Likes 0

Dislikes 0

Response

Brian Millard - Tennessee Valley Authority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority

Answer Yes

Document Name

Comment

The Registered Entity suggests consider revising Section 1.2.3 to clarify under what circumstances vendors would be expected to notify the Registered Entity that vendor remotes access should be revoked. Regarding Section 1.2.4, suggest revising to clarify what type of vulnerabilities would be included in this disclosure.

Likes 0

Dislikes 0

Response

Bob Thomas - Illinois Municipal Electric Agency - 4

Answer Yes

Document Name

Comment

Illinois Municipal Electric Agency supports comments submitted by the American Public Power Association.

Likes 0

Dislikes 0

Response

Steven Rueckert - Western Electricity Coordinating Council - 10

Answer Yes

Document Name

Comment

R1-R2 are clearly stated and provide for the development and implementation of the required CIP-013-1 cyber security plans. R3 sets a clear expectation for periodic reviews and approvals. From an auditor's perspective, requiring the first review and approval of the R1 plan on or before the effective date of CIP-013-1 (Implementation Plan, Initial Performance of Periodic Requirements section, p. 3) provides clear guidance to industry on implementation expectations.

Likes 0

Dislikes 0

Response

Jeff Icke - Colorado Springs Utilities - 5

Answer Yes

Document Name

Comment

Colorado Springs Utilities supports the comments provided by APPA

Likes 0

Dislikes 0

Response

Aaron Ghodooshim - FirstEnergy - FirstEnergy Corporation - 1,3,4,5,6 - RF, Group Name FirstEnergy Corporation

Answer Yes

Document Name

Comment

Regarding the use of the term "vendor," as described in the "Rationale for Requirement R1" section of CIP-013-1: the SDT may want to clarify that staff augmentation contractors are not considered to be "vendors" in the context of the standard.

Likes 0

Dislikes 0

Response

Daniel Grinkevich - Con Ed - Consolidated Edison Co. of New York - 1

Answer Yes

Document Name

Comment

What is the difference between 1.2.1 and 1.2.4?

Why is the scope of 1.2.2 limited to vendor-identified incidents? What if a third party identifies an incident?

Is there an expectation of the vendor to disclose non-public information in 1.2.4? Is this only during contracting or is there an expectation of new vulnerabilities to be disclosed?

1.1 – Delete “planning for”. Or if the use of “planning for” in R1 creates a necessary distinction between 1.1 and 1.2, what is it?

- What is implied by *(ii) transitions from one vendor(s) to another vendor(s)*? Why is this distinction necessary? Wouldn't a vendor transition require a new contract? Does this refer to the act of severing existing remote access permissions? Subcontracting?

- R1.2.2: “Coordination of responses to vendor-identified incidents....”, it is not clear who should be doing the coordinating and why this is necessary. Suggest deleting.

Likes 0

Dislikes 0

Response

Steven Sconce - EDF Renewable Energy - 5

Answer Yes

Document Name

Comment

With respect to the proposed Requirement 1 Part 1.2.1, compliance requires the vendor to be responsive to vendor-identified incidents. We can only be compliant if the vendor releases such information. We can't be held responsible for a vendor that does not provide incident related information. This verbiage has to be deemed acceptable when developing the plan(s).

With respect to the proposed Requirement 1 Part 1.2.4, compliance requires the vendor to be responsive to disclosing vulnerabilities. We can only be compliant if the vendor releases such information. We can't be held responsible for a vendor that does not disclose vulnerabilities. This verbiage has to be deemed acceptable when developing the plan(s).

With respect to the proposed Requirement 1 Part 1.2.5, compliance requires cooperation by the vendor to participate in such a program. We will give procurement preference to vendors willing to participate however we are still at relying on vendor cooperation. We can't be held responsible for a

vendor that does not provide accurate verification of software integrity and authenticity. This verbiage has to be deemed acceptable when developing the plan(s).

Likes 0

Dislikes 0

Response

Allan Long - Memphis Light, Gas and Water Division - 1

Answer

Yes

Document Name

Comment

We support the comments submitted by APPA, including the following recommendations:

Re-word R1, Parts 1.2.1 and 1.2.4 to better describe what is expected. The endorsed Guidance does not adequately distinguish between the two parts.

"Vendor" is not a NERC-defined term and contributes ambiguity.

Those items (CIP-013 R1, Parts 1.2.5 and 1.2.6) covered in CIP-005 and CIP-010 should be removed from CIP-013 to avoid duplication.

The Compliance and/or Implementation Guidance should make clear that, when evidence demonstrates that all items expressly identified in CIP-013 R1 are contained in a Supply Chain Cyber Security Management Plan or Plans, and are implemented pursuant to R2, entities will not be found out of compliance.

There is concern about language related to procurement contracts, specifically the use of master agreements, piggyback agreements, and evergreen agreements. All references to "contracts" and most references to "procurement" should be struck from CIP-013, except the note in R2.

Likes 0

Dislikes 0

Response

Tyson Archie - Platte River Power Authority - 5

Answer

Yes

Document Name

Comment

: Platte River Power Authority (PRPA) continues to be a strong supporter of efforts to ensure the security of the Bulk Electric System and appreciates the time and effort that the SDT has put into considering industry feedback and incorporating it into the current drafts of CIP-005, CIP-010 and CIP-013.

PRPA agrees with limiting the requirement to high and medium assets only.

R1: PRPA generally agrees with the proposed Requirement 1 but is concerned about compliance obligations for procurement activities associated with multi-party wide-area contracts, master agreements and piggyback agreements. An exception, comparable to a CIP Exceptional Circumstance, should be included in the standard for these kinds of procurement activities.

PRPA recommends removing those items (CIP-013 R1 parts 1.2.5 and 1.2.6) covered in CIP-005 and CIP-010 from CIP-013 to avoid duplication. The revised CIP-013 parts 1.2.5 and 1.2.6 appear to apply to software source and identity verification (now required “when the method to do so is available” by CIP-010) and determining active vendor remote access sessions (now required by CIP-005). Having CIP-013 parts that require entities to perform the underlying function and to take those functions into account during the procurement process is needless duplication that does not increase security or reliability and could result in compliance “double jeopardy.”

R2: PRPA agrees with the requirement to implement the supply chain cyber security risk management plan as outlined in Requirement 1.

R3: PRPA agrees that a 15-month review period is appropriate to review the supply chain cyber security risk management plan in Requirement 1.

Additionally, PRPA proposes that the regional entities voluntarily assess CIP-013 programs for entities who have audits in the period between standard approval and the effective date. This is similar to when the regional entities performed transition period audits of CIP v5 programs.

Likes 0

Dislikes 0

Response

Amelia Sawyer - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE

Answer

Yes

Document Name

Comment

For Requirement R 1, Part 1.2.4, CenterPoint Energy Houston Electric, LLC (“CenterPoint Energy”) recommends the following modification to help clarify the type of disclosed vulnerabilities:

“Disclosure by vendors of known security vulnerabilities involving the procured product or its supply chain that impact the availability or reliability of the Responsible Entity’s BES Cyber System.”

Likes 0

Dislikes 0

Response

Harold Sherrill - Harold Sherrill On Behalf of: Martine Blair, Sempra - San Diego Gas and Electric, 5, 3, 1; - Harold Sherrill

Answer

Yes

Document Name

Comment

Even though the second proposed version of this standard has been simplified, SDG&E believes compliance with CIP-013-1 is potentially difficult and costly to demonstrate compliance.

Likes 0

Dislikes 0

Response

Joe Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Jamie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of Northern California, 1; Lori Folkman, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; - Joe Tarantino

Answer

Yes

Document Name

Comment

SMUD continues to be a strong supporter of efforts to ensure the security of the Bulk Electric System and appreciates the time and effort that the SDT has put into considering industry feedback and incorporating it into the current drafts of CIP-005, CIP-010 and CIP-013.

SMUD agrees with limiting the requirement to high and medium assets only.

R1: SMUD generally agrees with the proposed Requirement 1 but is concerned about compliance obligations for procurement activities associated with multi-party wide-area contracts, master agreements and piggyback agreements. An exception, comparable to a Technical Feasibility Exception (TFE) or Asset Capability Exception, should be included in the standard for these kinds of procurement activities. An additional consideration is to allow agreements between the vendor and entity that will not cause a financial impact, such as a letter of understanding, commitment to a plan of action or other agreement.

SMUD recommends removing those items (CIP-013 R1 parts 1.2.5 and 1.2.6) covered in CIP-005 and CIP-010 from CIP-013 to avoid duplication. The revised CIP-013 parts 1.2.5 and 1.2.6 appear to apply to software source and identity verification (now required “when the method to do so is available” by CIP-010) and determining active vendor remote access sessions (now required by CIP-005). Having CIP-013 parts that require entities to perform the underlying function and to take those functions into account during the procurement process is needless duplication that does not increase security or reliability and could result in compliance “double jeopardy.”

Likes 0

Dislikes 0

Response

Andrew Gallo - Austin Energy - 6

Answer

Yes

Document Name

Comment

Austin Energy (AE) supports efforts to ensure the security of the Bulk Electric System and appreciates the time and effort the SDT put into considering industry feedback and incorporating it into the current drafts of CIP-005, CIP-010 and CIP-013.

AE agrees with limiting the requirement to high and medium assets.

R1: AE generally agrees with the proposed R1 but has concerns about compliance obligations for procurement activities associated with multi-party wide-area contracts, master agreements and "piggyback" agreements. NERC should include an exception, comparable to a CIP Exceptional Circumstance, for such procurement activities.

AE recommends removing those items (CIP-013 R1 parts 1.2.5 and 1.2.6) covered in CIP-005 and CIP-010 from CIP-013 to avoid duplication. The revised CIP-013 parts 1.2.5 and 1.2.6 appear to apply to software source and identity verification (now required “when the method to do so is available” by CIP-010) and determining active vendor remote access sessions (now required by CIP-005). Having CIP-013 parts which require entities to perform the underlying function and take those functions into account during the procurement process is needless duplication which does not increase security or reliability and could result in compliance “double jeopardy.”

R2: AE agrees with the requirement to implement the supply chain cyber security risk management plan as outlined in R1.

R3: AE agrees a 15-month review period is appropriate to review the supply chain cyber security risk management plan in R1.

Additionally, AE proposes the regional entities voluntarily assess CIP-013 programs for entities who have audits in the period between standard approval and the effective date, similar to when the regional entities performed transition period audits of CIP v5 programs.

Likes 0

Dislikes 0

Response

Ginette Lacasse - Seattle City Light - 1,3,4,5,6 - WECC, Group Name Seattle City Light Ballot Body

| | |
|--|--|
| Answer | Yes |
| Document Name | 2016-03_Unofficial_Comment_Form_SCL_2017-6-14 Final to NERC.docx |
| Comment | |
| See attached comments | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Normande Bouffard - Hydro-Qu?bec Production - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| <p>Concerned that the R1 guidance provides details which are beyond the scope of R1</p> <p>Definition of vendor is not a NERC defined term. The term "vendor" is also used in the proposed CIP-005.</p> <p>Request more guidance for the term "vendor" and use cases. Guidance should prompt Entities to include their definition of "vendor" in their plan(s).</p> <p>Request re-wording of R1 Part 1.2.1 and 1.2.4 to easily understand what is expected.</p> <p>In R1 Parts 1.2.1 and 1.2.2, the term "vendor-identified incident" is unclear.</p> <p>Request to merge R1 Part 1.2.1 and 1.2.2 for the notification and the coordination related to vendor-identified incidents.</p> <p>Request to merge R1 Part 1.2.3 and Part 1.2.6 for the notification and the coordination of controls when remote or on site access are required and granted for (i) vendor-initiated interactive remote access, and (ii) system-to-system remote access with a vendor(s).</p> <p>The Compliance and/or Implementation Guidance should make clear that, as long as evidence demonstrates that all items expressly identified in CIP-013, R1 are contained in a Supply Chain Cyber Security Management Plan or Plans, and are implemented pursuant to R2, entities will not be found out of compliance. More specifically, entities should not be subjected to CIP-013 noncompliance findings resulting from a difference of opinion concerning security adequacy.</p> | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Theresa Allard - Minnkota Power Cooperative Inc. - 1 | |
| Answer | Yes |
| Document Name | |

| Comment | |
|---|-----|
| See MRO NSRF comments. | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| Lona Calderon - Salt River Project - 1,3,5,6 - WECC | |
| Answer | Yes |
| Document Name | |
| Comment | |
| <p>SRP continues to be a strong supporter of efforts to ensure the security of the Bulk Electric System and appreciates the time and effort that the SDT has put into considering industry feedback and incorporating it into the current drafts of CIP-005, CIP-010 and CIP-013.</p> <p>SRP agrees with limiting the requirement to high and medium assets only.</p> <p>R1: SRP generally agrees with the proposed Requirement 1 but is concerned about compliance obligations for procurement activities associated with multi-party wide-area contracts, master agreements and piggyback agreements. An exception, comparable to a CIP Exceptional Circumstance, should be included in the standard for these kinds of procurement activities.</p> <p>SRP recommends removing those items (CIP-013 R1 parts 1.2.5 and 1.2.6) covered in CIP-005 and CIP-010 from CIP-013 to avoid duplication. The revised CIP-013 parts 1.2.5 and 1.2.6 appear to apply to software source and identity verification (now required "when the method to do so is available" by CIP-010) and determining active vendor remote access sessions (now required by CIP-005). Having CIP-013 parts that require entities to perform the underlying function and to take those functions into account during the procurement process is needless duplication that does not increase security or reliability and could result in compliance "double jeopardy."</p> <p>R2: SRP agrees with the requirement to implement the supply chain cyber security risk management plan as outlined in Requirement 1.</p> <p>R3: SRP agrees that a 15-month review period is appropriate to review the supply chain cyber security risk management plan in Requirement 1.</p> <p>Additionally, SRP proposes that the regional entities voluntarily assess CIP-013 programs for entities who have audits in the period between standard approval and the effective date. This is similar to when the regional entities performed transition period audits of CIP v5 programs.</p> | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| Andrey Komissarov - Andrey Komissarov On Behalf of: Jerome Gobby, Sempra - San Diego Gas and Electric, 5, 3, 1; - Andrey Komissarov | |
| Answer | Yes |
| Document Name | |

Comment

Even though the second proposed version of this standard has been simplified, SDG&E believes compliance with CIP-013-1 is potentially difficult and costly to demonstrate compliance.

Likes 0

Dislikes 0

Response

Alan Farmer - ACEC - NA - Not Applicable - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF

Answer

Yes

Document Name

Comment

While in overall agreement with Requirements 1 through 3, ACEC does have the following concern:

The R1 and R2 requirements in the draft split the development of one or more documented supply chain cyber security risk management plan(s) (R1) and the implementation of those supply chain cyber security risk management plan(s) specified in Requirement R1 (R2). By splitting these the potential for violations have been increased from one (1) to two (2) – one for each requirement. It is recommended that R1 and R2 be combined to reduce the potential of multiple violations for what should be a single Requirement.

To illustrate, a majority of the Standards have their development of plans, processes, or procedures and implementation of those plans, processes, or procedures in the same requirement:

CIP-002-5.1 R1; CIP-003-6 R2, R4; CIP-004-6 R1, R2, R3, R4, R5; CIP-005-5 R1, R2; CIP-006-6 R1, R2, R3; CIP-007-6 R1, R2, R3, R4, R5; CIP-010-2 R1, R2, R3, R4; CIP-011-2 R1, R2

Likes 0

Dislikes 0

Response

David Rivera - New York Power Authority - 3

Answer

Yes

Document Name

Comment

NYPA supports the comments submitted by Salt River Project (WECC) and NPCC.

Likes 0

Dislikes 0

| Response | |
|--|-----|
| <p>Russel Mountjoy - Midwest Reliability Organization - 10, Group Name MRO NSRF</p> | |
| Answer | Yes |
| Document Name | |
| Comment | |
| <p>During the CIP-013-1 webinar on Feb 2, the SDT indicated several times that it is not the intention of R1 to force vendors to perform actions so that entities can comply with the standard. R1.2.1, R1.2.2, R1.2.3, R1.2.4 would force vendors to develop internal processes to notify entities of any changes relating to the requirements which would force vendors to take independent action to notify entities of any changes. Also, during the procurement phase, why would vendors reveal potential security flaws in their product above and beyond normal security patch notifications while they are competing against other vendors for the entities business? Also, entities have processes in place already for other CIP requirements to fully prepare an asset for deployment into the ESP. We don't grab equipment off of the back of the delivery truck and deploy it into the ESP immediately so what is the point of knowing about security flaws in their products during procurement? Any security flaws are probably already addressed with patches that will be downloaded and installed when preparing the asset for deployment. Also, a vulnerability assessment has to be performed against the asset and CIP-007/CIP-005 security controls have to be checked prior to deployment. 1.2.1, 1.2.2, 1.2.4, 1.2.5 appear to be redundant with CIP-007 R2 security patch management. Is the SDT expecting vendors to provide information about security/design flaws above and beyond the normal security patch notifications? If so, what kind of information would that be?</p> <p>1.2.5 is troublesome as well (and it seems to be a duplicate of CIP-010-3 R1.6). Entities typically use update or proxy servers to discover and identify applicable security patches. For example, some use Windows Update Server Services to identify patches and roll them out once testing and approvals are complete. Do we need to check the check sums of the identified patches or can we trust that the update servers are authenticating the software?</p> | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| <p>Brian Evans-Mongeon - Utility Services, Inc. - 4</p> | |
| Answer | Yes |
| Document Name | |
| Comment | |
| <p>There is a lack of consistency between R1 parts 1.2.1 and 1.2.4 with respect to the use of the terms. While part 1.2.1 uses the "vendor equipment" and "software," part 1.2.4 uses the term "products." The SDT should clarify if it intends "products" to be broader in scope than equipment and software. USI recommends that the SDT be consistent and use "vendor equipment" and "software" throughout, or provide additional clarification about the scope of the term "products."</p> <p>In R1 parts 1.2.1 and 1.2.2, the term "vendor-identified incident" is unclear. It could mean incidents that were identified by another party, specific to the products of a specific vendor. It could mean only incidents identified by the vendor. USI suggests changing "identified to "acknowledged" or "confirmed."</p> | |

Definition of vendor is not a NERC defined term. The term "vendor" is also used in the proposed CIP-005.

USI believes the SDT should provide guidance regarding the use of the term "vendor." If "Vendor" is not defined by NERC, the Guidance should recommend that Entities include their definition of "vendor" in their plan(s).

Associated guidance in the "Rationale for R1" and in the separate implementation guidance should be revised to reflect the change to a performance-based requirement in which contract terms and contract negotiations play no function in auditing. Contract terms might be used by an entity as evidence of performance, but there should be no expectation by audits or subtext in the Standard or implementation guidance that anything having to do with contracts or procurement processes is required. There should be no expectation of what might or should be included within Requests for Proposals, no expectation of when contracts might or should be renegotiated, no expectations of what terms might or should be included or requested, and no expectations of what terms might or should be found in a prudent and proper contract. Ultimately there should be no expectation that such protections be achieved solely through the procurement process. Consistent with performance-based standards the objective is achieving each protection, not in how it is achieved.

| | |
|---------|---------------------------------|
| Likes 1 | Chris Gowder, N/A, Gowder Chris |
|---------|---------------------------------|

| | |
|------------|--|
| Dislikes 0 | |
|------------|--|

Response

David Gordon - Massachusetts Municipal Wholesale Electric Company - 5

| | |
|---------------|-----|
| Answer | Yes |
|---------------|-----|

| | |
|----------------------|--|
| Document Name | |
|----------------------|--|

Comment

MMWEC supports comments submitted by APPA.

| | |
|---------|--|
| Likes 0 | |
|---------|--|

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| Dislikes 0 | |
|------------|--|

Response

Allie Gavin - Allie Gavin On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin

| | |
|---------------|-----|
| Answer | Yes |
|---------------|-----|

| | |
|----------------------|--|
| Document Name | |
|----------------------|--|

Comment

ITC Holdings agrees with the proposed requirements, however, we believe the wording of CIP-013 leaves a lot of room for interpretation. We recommend being more prescriptive in the wording of CIP-013 as well as providing detailed guidance in the Technical Guidance document.

Additionally, ITC Holdings agrees with the below comment submitted by SPP regarding the use of "coordination":

1.2.6- SPP requests clarification as to the “coordination” intended to be imposed, suggesting that the requirement may stand alone with the coordination component removed. SPP believes the “coordination of controls” may be interpreted as requiring the Responsible Entity and vendor to jointly develop and/or coordinate controls, rather than simply requiring the Responsible Entity to address the requisite remote access controls in its supply chain cyber security risk management plan(s). As drafted, SPP is concerned that it is unclear what is required for “coordination,” as well as how such coordination would be evidenced at audit.

Likes 0

Dislikes 0

Response

Wesley Maurer - Lower Colorado River Authority - 5

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Colby Bellville - Duke Energy - 1,3,5,6 - FRCC,SERC,RF, Group Name Duke Energy

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Sergio Banuelos - Tri-State G and T Association, Inc. - 1,3,5 - MRO,WECC

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Victor Garzon - El Paso Electric Company - 5

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Pablo Onate - El Paso Electric Company - 1

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Rhonda Bryant - El Paso Electric Company - 3

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Glen Farmer - Avista - Avista Corporation - 5

Answer

Yes

| | |
|---|-----|
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Venona Greaff - Oxy - Occidental Chemical - 7, Group Name Oxy | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Bradley Calbick - Bradley Calbick On Behalf of: Bryan Cox, Avista - Avista Corporation, 3, 1, 5; - Bradley Calbick | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Bill Watson - Old Dominion Electric Coop. - 3 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |

Response

Sandra Pacheco - Silicon Valley Power - City of Santa Clara - 3,5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Val Ridad - Silicon Valley Power - City of Santa Clara - 3,5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Shelby Wade - PPL - Louisville Gas and Electric Co. - 1,3,5,6 - SERC,RF, Group Name PPL NERC Registered Affiliates

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Thomas Foltz - AEP - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Lauren Price - American Transmission Company, LLC - 1

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Julie Hall - Entergy - 6, Group Name Entergy/NERC Compliance

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

John Williams - Tallahassee Electric (City of Tallahassee, FL) - 3

Answer

Yes

Document Name

Comment

Likes 1

Tallahassee Electric (City of Tallahassee, FL), 1, Langston Scott

Dislikes 0

Response

Melanie Seader - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Chris Scanlon - Exelon - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Michael Shaw - Lower Colorado River Authority - 6, Group Name LCRA Compliance

Answer

Document Name

Comment

No comment

Likes 0

Dislikes 0

Response

David Francis - SRC - 1,2 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF, Group Name SRC + SWG

Answer

Document Name

Comment

Requirement R1. The IRC has no issues with the concept. We offer a recommendation on the language, “(i) Responsible Entity procures and installs vendor equipment and software; and (ii) Responsible Entity transitions from one vendor(s) product or service to another vendor(s) product or service”.

Note: **ERCOT does not support the above comment.**

Requirement 1.2.1. The current wording suggests that the vendor has sufficient knowledge of the Responsible Entities’ environment to know that a particular vulnerability does in fact pose a security risk to the Responsible Entity. We offer a recommendation on the language, “*Notification by the vendor of vendor-identified incidents related to the products or services provided to the Responsible Entity that could pose cyber security risk to the Responsible Entity;*”

Requirement 1.2.2. The current phrase “coordination of response” is not clear as to what is intended by “coordination”. We offer a recommendation on the language, “*Coordination of response activities by the vendor and the Responsible Entity to address vendor-identified incidents related to the products or services provided to the Responsible Entity that pose cyber security risk to the Responsible Entity;*”

Requirement 1.2.4. The current wording is not clear as to which vulnerabilities are applicable. We offer a recommendation on the language, “*Disclosure by vendors of known vulnerabilities in the procured product or service following a responsible disclosure process.*”

Requirement 1.2.6. The use of the phrase “Coordination of controls” is confusing. We offer a recommendation on the language, “*Controls for; (i) vendor-initiated Interactive Remote Access, and (ii) system-to-system remote access with a vendor(s).*”

Likes 0

Dislikes 0

Response

Richard Vine - California ISO - 2

Answer

Document Name

Comment

The ISO supports the comments of the Security Working Group (SWG)

Likes 0

Dislikes 0

Response

W. Dwayne Preston - Austin Energy - 3

Answer

Document Name

Comment

I would support the comments of Andrew Gallo Austin Energy for all questions.

Likes 0

Dislikes 0

Response

Scott Miller - Scott Miller On Behalf of: David Weekley, MEAG Power, 3, 5, 1; Roger Brand, MEAG Power, 3, 5, 1; Steven Grego, MEAG Power, 3, 5, 1; - Scott Miller, Group Name MEAG Power

Answer

Document Name

Comment

MEAG supports the answers and comments of Salt River Project.

Likes 0

Dislikes 0

Response

2. The SDT developed proposed CIP-005-6 Requirement R2 Parts 2.4 and 2.5 to address the Order No. 829 directives for controls on vendor-initiated remote access to BES Cyber Systems covering both user-initiated and machine-to-machine vendor remote access. The SDT followed an approach recommended by stakeholders during the initial posting of CIP-013-1. Do you agree with proposed revisions in CIP-005-6? If you do not agree, or if you agree but have comments or suggestions, please provide your recommendation and explanation.

Elizabeth Axson - Electric Reliability Council of Texas, Inc. - 2

Answer No

Document Name

Comment

ERCOT joins the comments of the IRC and offers the following additional comments:

Regarding Part 2.4, ERCOT is concerned that the meaning of “determining” in the phrase “have one or more methods for determining active vendor remote access sessions” is unclear. If the SDT’s intent is to require *identification* of instances of active vendor remote access, ERCOT suggests rewording to “have one or more methods of *identifying instances of* active vendor remote access (including Interactive Remote Access and system-to-system remote access).”

ERCOT also requests clarification on the meaning of “system-to-system remote access.” Interpreted broadly, this requirement could mean all ingress/egress network connections to the security zone. Identifying each instance of connection could become extremely burdensome, without providing any meaningful reliability benefit.

ERCOT recommends that the meaning of system-to-system remote access be qualified as vendor remote access which can do harm to the BES Cyber System (BCS) and recommends the following language:

“Have one or more methods for determining active vendor remote access sessions (including Interactive Remote Access and system-to-system remote access). This is limited to sessions which have the ability to harm the BCS.”

If the SDT declines to adopt this language, the SDT should consider defining “system-to-system remote access” or further clarifying the meaning of this term in the “Guideline and Technical Basis” section or in the Implementation Guidance.

Likes 0

Dislikes 0

Response

William Harris - Foundation for Resilient Societies - 8

Answer No

Document Name

Comment

See comments in attached file

Likes 0

Dislikes 0

Response

Sergio Banuelos - Tri-State G and T Association, Inc. - 1,3,5 - MRO,WECC

Answer No

Document Name

Comment

It remains unclear to us as to what the phrase “system-to-system” is meant to include. Please define or provide examples of what would be considered vendor “system-to-system” remote access.

Likes 0

Dislikes 0

Response

Timothy Reyher - Eversource Energy - 5

Answer No

Document Name

Comment

Comments:

The definition of vendor is crucial to an entity defining and carrying out its compliance objectives for the requirements in question.

Definition of vendor is not a NERC defined term. The term “vendor” is also used in the proposed CIP-013.

Request more guidance for the term “vendor” and use cases. Guidance should prompt Entities to include their definition of “vendor” in their plan(s).

Guideline & Technical Basis for R2 should be included in this update. Supplemental materials may be out of date – see page 21 of 24 in the posted redline version. Include reference to FERC Order 829 for Parts 2.4 and 2.5

Consider adding a CIP Exceptional Circumstance clause to R2 Parts 2.4 and 2.5

Likes 0

Dislikes 0

Response

Colby Bellville - Duke Energy - 1,3,5,6 - FRCC,SERC,RF, Group Name Duke Energy

Answer No

Document Name

Comment

Duke Energy requests additional clarity pertaining to the use of the term “active” in Requirement 2 Parts 2.4 and 2.5. As written, it could be interpreted that an entity would be required to monitor the remote access sessions of a vendor in real-time. Was this the drafting team’s intent with this language? If the drafting team’s intent was that an entity only be able to identify which vendor’s have remote access, we suggest revising the standard to more closely reflect said intent. If it is the drafting team’s intent that an entity must monitor in real-time the remote access of a vendor, additional guidance as to acceptable methods to achieve compliance with this intent is necessary.

Likes 0

Dislikes 0

Response

Don Schmit - Nebraska Public Power District - 5

Answer No

Document Name

Comment

NPPD supports the comments for the MRO NSRF for this question.

Likes 0

Dislikes 0

Response

Nicholas Lauriat - Network and Security Technologies - 1

Answer No

Document Name

Comment

Suggest rewording 2.4 to read, “Have one or more methods for determining when vendor remote access sessions (including Interactive Remote Access and system-to-system remote access) are active.” Alternative wording would be, “Have one or more methods for identifying active vendor remote access sessions (including Interactive Remote Access and system-to-system remote access).”

Likes 0

Dislikes 0

| Response | |
|---|----|
| <p>Wendy Center - U.S. Bureau of Reclamation - 5</p> | |
| Answer | No |
| Document Name | |
| Comment | |
| <p>Reclamation recommends that CIP-005-6 Requirement R2 Part 2.4 Requirements be changed to state, "Have one or more methods for determining and logging active vendor remote access sessions (including Interactive Remote Access and system-to-system remote access)."</p> | |
| <p>Reclamation recommends that the first bullet in CIP-005-6 Requirement R2 Part 2.4 Measures be changed to state, "Methods for accessing logged and actively monitored information to determine active vendor remote access sessions;"</p> | |
| <p>Reclamation also recommends that CIP-005-6 R2.3 be changed to "Where technically feasible, require multi-factor authentication for all Interactive Remote Access sessions" to align with CIP-007 R5, dealing with authentication requirements to help with consistency within the standards.</p> | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| <p>Julie Hall - Entergy - 6, Group Name Entergy/NERC Compliance</p> | |
| Answer | No |
| Document Name | |
| Comment | |
| <p>CIP-005-6 R2 Part 2.4 as drafted does not identify the "direction" of how system-to-system remote access is initiated. Interactive Remote Access specifies that it originates "from a Cyber Asset that is not an Intermediate System and not located within any of the Responsible Entity's Electronic Security Perimeters". Without defining the system of origin or other defining controls, similar to the definition of Interactive Remote Access, any connection from a CIP Cyber Asset to a vendor system, even if one-way and simply for data acquisition/submission, could be interpreted as subject to this requirement. Additional clarification is requested.</p> | |
| <p>Additionally, the Supplemental Material for the requirement points to a separate document without an official link. It appears this document has not been updated in six (6) years, and mostly targets securing Interactive Remote Access. It is requested that updated relevant material be placed in the Standard's Supplemental Material section, similar to other CIP standards, and that the Supplemental Material section also attempt to provide guidance on the securing of system-to-system remote access.</p> | |
| Likes | 0 |
| Dislikes | 0 |

| | |
|--|----|
| Response | |
| | |
| Richard Kinas - Orlando Utilities Commission - 5 | |
| Answer | No |
| Document Name | |
| Comment | |
| I fully support the concept of monitoring and being able to terminate all remote access sessions, however as written the additional requirements have no timing aspects associated with them, have no component for notification or alerting on active sessions, are atrifically limited to vendor access only, (lower case vendor) so may not include contractors, service providers, etc. Cannot support the requirement as written. | |
| Likes | 0 |
| Dislikes | 0 |

| | |
|---|----|
| Response | |
| | |
| Michael Haff - Seminole Electric Cooperative, Inc. - 1,3,4,5,6 - FRCC | |
| Answer | No |
| Document Name | |
| Comment | |
| With the deletion of the language in R2, it now appears that every Responsible Entity needs to have a documented process for Interactive Remote Access, even if the Responsible Entity does not allow it. Why did the team delete this exemption language from R2 as it seemed to lessen the burden for those entities that do not allow Interactive Remote Access? | |
| Likes | 0 |
| Dislikes | 0 |

| | |
|---|----|
| Response | |
| | |
| Thomas Foltz - AEP - 5 | |
| Answer | No |
| Document Name | |
| Comment | |
| R2 part 2.4 should read: Have one or more methods for determining when vendor Interactive Remote Access and/or vendor system-to-system remote access sessions are active. | |

Part 2.5 should read: Have one or more methods to disable active vendor Interactive Remote Access and/or vendor system-to-system remote access sessions).

Likes 0

Dislikes 0

Response

Steven Rueckert - Western Electricity Coordinating Council - 10

Answer

No

Document Name

Comment

The inclusion of (including Interactive Remote Access and system-to-system remote access) is problematic as the NERC defined term of Interactive Remote Access (IRA) explicitly excludes system-to-system process communication. Additionally, IRA already includes the concept of vendors (see 3) below).

“User-initiated access by a person employing a remote access client or other remote access technology using a routable protocol. 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). Remote access may be initiated from: 1) Cyber Assets used or owned by the Responsible Entity, 2) Cyber Assets used or owned by employees, and 3) Cyber Assets used or owned by vendors, contractors, or consultants. Interactive remote access does not include system-to-system process communications.”

The SDT should consider removing this system-to-system exclusion from the IRA defined term and stating Part 2.4 as –

Have one or more methods for determining active vendor Interactive Remote Access sessions.

And Part 2.5 as –

Have one or more method(s) to disable active vendor Interactive Remote Access sessions.

(note: the addition of ‘sessions’ in this Part to be consistent with Part 2.4.)

Lastly, from an SCRM perspective, the SDT should consider at least including some indication of when vendor remote access could or should be disrupted, but that may be better addressed in the CIP-013-1 R1.2.2 and/or R1.2.6 processes of the SCRM plan(s).

Likes 0

Dislikes 0

Response

Richard Vine - California ISO - 2

Answer

Yes

Document Name

Comment

The ISO supports the comments of the Security Working Group (SWG)

Likes 0

Dislikes 0

Response

Franklin Lu - Snohomish County PUD No. 1 - 6

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Sam Nietfeld - Public Utility District No. 1 of Snohomish County - 5

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Mark Oens - Snohomish County PUD No. 1 - 3

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Long Duong - Public Utility District No. 1 of Snohomish County - 1

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

John Martinsen - Public Utility District No. 1 of Snohomish County - 4

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Teresa Cantwell - Lower Colorado River Authority - 1

Answer

Yes

Document Name

Comment

Please clarify definition of system-system communications.

Likes 0

Dislikes 0

Response

Brandon Cain - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - SERC, Group Name Southern Company

Answer

Yes

Document Name

Comment

There needs to be a clear explanation of “machine-to-machine” and “system-to-system” remote access in the Guidelines & Technical Basis to provide the necessary understanding and scoping of these concepts for industry.

For example – “Machine-to-machine” or “system-to-system” remote access would include a logical connection between a High or Medium Impact BES Cyber System or it’s associated PCAs into or out of the associated ESP with a vendor-maintained Cyber Asset, and that connection does not have an interactive user access capability.

Additionally, under the Measures of R2.4, the statement of examples needs to have “such as” following “(including Interactive Remote Access and system-to-system remote access), such as:” to make it clearer that the below bulleted items are options an entity may choose from, and to be consistent with the formatting of R2.5.

Likes 0

Dislikes 0

Response

David Francis - SRC - 1,2 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF, Group Name SRC + SWG

Answer

Yes

Document Name

Comment

The IRC agree with the new CIP-005-6 Requirement R2 Parts 2.4 and 2.5 however we note there is no corresponding “Guidance and Technical Basis” or “Rationale”. We also suggest that guidance be drafted to help entities understand what is intended by the term “Vendor” in relation to parts 2.4 and 2.5.

Regarding Part 2.4, the IRC is concerned that the meaning of “determining” in the phrase “have one or more methods for determining active vendor remote access sessions” is unclear. If the SDT’s intent is to require *identification* of instances of active vendor remote access, the IRC suggests rewording to “have one or more methods of *identifying instances of* active vendor remote access (including Interactive Remote Access and system-to-system remote access).”

Likes 0

Dislikes 0

Response

Jason Snodgrass - Georgia Transmission Corporation - 1

Answer

Yes

Document Name

Comment

GTC supports NRECA comments:

NRECA requests that the SDT clarify in the requirements and GTB that applicable entities that do not allow Remote Access, do not have to create a process for Remote Access or terminating Remote Access.

Likes 0

Dislikes 0

Response

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion

Answer

Yes

Document Name

Comment

The definition of vendor is crucial to an entity defining and carrying out its compliance objectives for the requirements in question.

Definition of vendor is not a NERC defined term. The term "vendor" is also used in the proposed CIP-013.

Request more guidance for the term "vendor" and use cases. Guidance should prompt Entities to include their definition of "vendor" in their plan(s).

Guideline & Technical Basis for R2 should be included in this update. Supplemental materials may be out of date – see page 21 of 24 in the posted redline version. Include reference to FERC Order 829 for Parts 2.4 and 2.5

Consider adding a CIP Exceptional Circumstance clause to R2 Parts 2.4 and 2.5

Likes 1

Chantal Mazza, N/A, Mazza Chantal

Dislikes 0

Response

Mark Riley - Associated Electric Cooperative, Inc. - 1, Group Name AECl & Member G&Ts

Answer Yes

Document Name

Comment

AECI supports NRECA's comments provided below:

NRECA requests that the SDT clarify in the requirements and GTB that applicable entities that do not allow Remote Access, do not have to create a process for Remote Access or terminating Remote Access.

Likes 0

Dislikes 0

Response

Rachel Coyne - Texas Reliability Entity, Inc. - 10

Answer Yes

Document Name

Comment

Texas RE agrees with the proposed requirements and has the following comments.

- Question 2 above uses the term “*machine-to-machine vendor remote access*”. CIP-013-1 and CIP-005-6 use the term ““system-to-system remote access”. Since these are two different terms, Texas RE recommends these terms be defined or examples provided to increase clarity and to avoid multiple interpretations.
- Section 4.2.3.5 – The language, “*Each Responsible Entity shall implement develop one or more documented supply chain cyber security risk management plan(s) for high and medium impact BES Cyber Systems.*” is redundant with the requirement language. Also, neither CIP-013-1 nor CIP-010-3 contain this language in the Exemptions section.
- Page 1 Section 4.1.2.2 and Page 2 Section 4.2.1.2: Texas RE noted the term “*Special Protection System*” was removed. Texas RE recommends removing this term in all CIP standards.

Likes 0

Dislikes 0

Response

Warren Cross - ACES Power Marketing - 1,3,4,5 - WECC,Texas RE,SERC,SPP RE,RF, Group Name ACES Standards Collaborators

| | |
|--|-----|
| Answer | Yes |
| Document Name | |
| Comment | |
| <p>The requirement in CIP-005-5 6 Table R2.4 states that an entity must have one or more processes to determine active vendor session. We would recommend adding 'Active and Passive' to the requirement since the Measures point to passive initiation in having the vendor call or receive permission before their remote access is granted. Additional guidance on what is 'Active' and whether the monitoring session requires tracking the entire session or initiation of the session would provide more clarity to industry.</p> | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| David Ramkalawan - Ontario Power Generation Inc. - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| <p>OPG suggest the term "vendor" be defined to exclude outsourcers that manage most aspects of a BES Cyber System. Normally they are contractually obligated to act in the Responsible Entities interests and fulfill or accommodate all compliance requirements. As such, this is a much closer relationship than is typically associated with the term "vendor". Because in many such cases they would be principle maintainer or operator of said systems would often not technically feasible to disable the outsourcer's access, remote or otherwise.</p> <p>Requirement 2.4 mentions ability to determine "sessions", not just "access". Requirement 2.5 is ambiguous on whether it requires the ability to disable "active sessions" as opposed to merely disabling "active accounts". Suggest replacing "access" in R2.5 with either "sessions" or "accounts" depending on what was intended or otherwise elaborating.</p> | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| Michael Brytowski - Michael Brytowski On Behalf of: Donna Stephenson, Great River Energy, 5, 3, 1, 6; - Michael Brytowski | |
| Answer | Yes |
| Document Name | |
| Comment | |
| <p>GRE requests that the SDT clarify in the requirements and GTB that applicable entities that do not allow Remote Access, do not have to create a process for Remote Access or terminating Remote Access.</p> | |
| Likes | 0 |

Dislikes 0

Response

Linda Jacobson-Quinn - City of Farmington - 3

Answer Yes

Document Name

Comment

FEUS supports the comments submitted by APPA

Likes 0

Dislikes 0

Response

Stephanie Little - Stephanie Little

Answer Yes

Document Name

Comment

AZPS agrees with the inclusion of Parts 2.4 and 2.5 within CIP-005-6 R2; however, requests the statement “active vendor remote access sessions” be changed to “active vendor remote connection.” A vendor may sustain an active remote connection for longer than an individual active remote access session. Thus, a revision to the language would clarify the intent of this requirement, which is to monitor any time a vendor is connecting to and accessing sensitive cyber assets remotely. Thus, AZPS encourages the SDT to consider this revision as it will better ensure that active remote connections by vendors are monitored and addressed.

Likes 0

Dislikes 0

Response

Quintin Lee - Eversource Energy - 1

Answer Yes

Document Name

Comment

Recommend creating a CIP-005-6 and CIP-010-3 ‘Guidance document’ similar to the one for CIP-013-1.

Request that the narrative for the term 'Vendor' that is in the CIP-005-6 R2 Rationale box be added to the already Endorsed Guidance document for CIP-013-1 and to the Guidance documents for CIP-005-6 if it is created.

Request that a narrative for the term 'System-to-System' be added to the already Endorsed Guidance document for CIP-013-1 and to the Guidance documents for CIP-005-6 if it is created.

Recommend removing CIP-013 R1 subparts 1.2.6 from CIP-013 since it is covered in the proposed CIP-005-6.

Guideline & Technical Basis for R2 should be included in this update. Supplemental materials may be out of date – see page 21 of 24 in the posted redline version. Include reference to FERC Order 829 for Parts 2.4 and 2.5

Consider adding a CIP Exceptional Circumstance clause to R2 Parts 2.4 and 2.5

Likes 0

Dislikes 0

Response

Jesus Sammy Alcaraz - Imperial Irrigation District - 1

Answer

Yes

Document Name

Comment

Request more guidance for the term “vendor” and use cases. If “Vendor” is not defined by NERC, the guidance should prompt Entities to include their definition of “vendor” in their plan(s).

Guideline & Technical Basis for R2 should be included in this update. Supplemental materials may be out of date – see page 21 of 24 in the posted redline version. Include reference to FERC Order 829 for Parts 2.4 and 2.5

Consider adding a CIP Exceptional Circumstance clause to R2 Parts 2.4 and 2.5

Likes 0

Dislikes 0

Response

Mark Holman - PJM Interconnection, L.L.C. - 2

Answer

Yes

Document Name

Comment

As currently written, it is ambiguous in 2.4 as to why an entity needs to “determine” vendor access, especially in conjunction with the logging, monitoring and control activities described within the measures. PJM suggests combining 2.4 and 2.5 together (“Have one or more method(s) to determine and disable active vendor remote access sessions...”).

Likes 0

Dislikes 0

Response

Allie Gavin - Allie Gavin On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin

Answer

Yes

Document Name

Comment

ITC Holdings agrees with the below comment submitted by MRO’s NSRF:

The NSRF question the use of “...active vendor...” in part 2.4 and 2.5 Requirements. The word “active” could mean either “the vendor is currently allowed electronic access and is currently within a BES Cyber Asset” OR “the vendor is idle and but has electronic access to a BES Cyber Asset”. The NSRF recommends that “active” be removed as this will provide clarity to applicable entities. If active sessions was the SDT thought process, please state that within the proposed part.

Likes 0

Dislikes 0

Response

Kara White - NRG - NRG Energy, Inc. - 3,4,5,6 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF

Answer

Yes

Document Name

Comment

The definition of vendor is crucial to an entity defining and carrying out its compliance objectives for the requirements in question.

The definition of vendor is not a NERC defined term. The term “vendor” is also used in the proposed CIP-013.

Request more guidance for the term “vendor” and use cases. Guidance should prompt Entities to include their definition of “vendor” in their plan(s).

Regarding CIP-005-6, R2.4 & R2.5; NRG requests that the NERC SDT define or further clarify the meaning of “system-to-system” remote access.

NRG asserts that Guideline & Technical Basis for R2 should be included in this update. Supplemental materials may be out of date – see page 21 of 24 in the posted redline version. Please include a reference to FERC Order 829 for Parts 2.4 and 2.5.

Please consider adding a CIP Exceptional Circumstance clause to R2 Parts 2.4 and 2.5.

Likes 0

Dislikes 0

Response

David Gordon - Massachusetts Municipal Wholesale Electric Company - 5

Answer

Yes

Document Name

Comment

MMWEC supports comments submitted by APPA.

Likes 0

Dislikes 0

Response

Laura Nelson - IDACORP - Idaho Power Company - 1

Answer

Yes

Document Name

Comment

Does system to system remote access include “read-only” access or all forms of external access from vendors?

Likes 0

Dislikes 0

Response

Guy Andrews - Georgia System Operations Corporation - 4

Answer

Yes

| | |
|---|---------------------------------|
| Document Name | |
| Comment | |
| <p>GSOC supports NRECA's Comments of:</p> <p>NRECA requests that the SDT clarify in the requirements and GTB that applicable entities that do not allow Remote Access, do not have to create a process for Remote Access or terminating Remote Access.</p> | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Brian Evans-Mongeon - Utility Services, Inc. - 4 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| <p>The proposed CIP-005-6 uses vendor. Definition of vendor is not a NERC defined term. USI believes the SDT should provide guidance regarding the use of the term "vendor." If "Vendor" is not defined by NERC, the Guidance should recommend that Entities include their definition of "vendor" in their plan(s).</p> <p>The SDT should consider adding a CIP Exceptional Circumstance clause to R2 Parts 2.4 and 2.5</p> | |
| Likes 1 | Chris Gowder, N/A, Gowder Chris |
| Dislikes 0 | |
| Response | |
| Chris Scanlon - Exelon - 1 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| <p>As stated, this requirement seems to start with the base assumption that the Registered Entity allows vendors to have Remote Access to the Registered Entity's BES Cyber Assets with External Routable Connectivity (ERC), and therefore must implement a method to detect active vendor remote access session and have a method for disabling vendor access. Many Registered Entities do not allow vendors to have Remote Access to substation medium BES Cyber Assets. Would this relieve such REs from having to then develop a method to detect and disable active vendor remote access session and would documentation demonstrating that Vendor Remote Access was not allowed be sufficient?</p> | |
| Likes 0 | |
| Dislikes 0 | |

Response

David Rivera - New York Power Authority - 3

Answer Yes

Document Name

Comment

NYPA supports the comments submitted by Salt River Project (WECC) and NPCC.

Likes 0

Dislikes 0

Response

Barry Lawson - National Rural Electric Cooperative Association - 4

Answer Yes

Document Name

Comment

NRECA requests that the SDT clarify in the requirements and GTB that applicable entities that do not allow Remote Access, do not have to create a process for Remote Access or terminating Remote Access.

Likes 0

Dislikes 0

Response

Alan Farmer - ACEC - NA - Not Applicable - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF

Answer Yes

Document Name

Comment

No Comments

Likes 0

Dislikes 0

Response

Tho Tran - Oncor Electric Delivery - 1 - Texas RE**Answer** Yes**Document Name****Comment**

The definition of “vendor” is important for defining and carrying out its compliance objectives for the requirements parts 2.4 and 2.5. The drafting team should add a part of one or both requirements to include a specific definition of vendor to support the related compliance procedures and evidence required of an entity.

For Part 2.4, it is not clear if the requirement applies to contractors and service vendors that are provided authorized access under CIP-004. Additionally, more information is needed on the meaning of “active”. Most of this is captured in logs after the fact. Does the drafting team intend for “active” to imply real-time information? Please clarify if the requirement only applies to a connection from the vendor directly to a system within the ESP or does it apply to connections from a vendor to a system outside the ESP that updates one inside the ESP.

For Part 2.5, Oncor would like clarification of the action, or examples, for when access should be disabled.

Likes 0

Dislikes 0

Response**Lona Calderon - Salt River Project - 1,3,5,6 - WECC****Answer** Yes**Document Name****Comment**

SRP agrees with R2 Part 2.4 but requests clarification of the term “determining.”

SRP generally agrees with Proposed R2 Part 2.5 but requests revisions to the Rationale for R2. The last sentence of paragraph 2 of the rationale states the objective “...is for entities to have the ability to rapidly disable active remote access sessions...” The Responsible Entity may not have the capability to disable access during an “active” remote access session. SRP requests changing the language to “upon detected unauthorized activity.”

Likes 0

Dislikes 0

Response**Normande Bouffard - Hydro-Quebec Production - 5****Answer** Yes

| | |
|--|--|
| Document Name | |
| Comment | |
| Request to defined the scope of the requirements “for new contracts only” | |
| With no defined scope, if the standard become effective in same time of the standard CIP-013-1, no terms will existed beetween entities and vendor in effective contracts. How the entities will comply to requirements ? | |
| Definition of vendor is not a NERC defined term. The term “vendor” is also used in the proposed CIP-005. | |
| Request more guidance for the term “active vendor remote access sessions” and use cases. Guidance should prompt Entities to include their definition of “vendor” in their plan(s). | |
| Guideline & Technical Basis for R2 should be included in this update. Supplemental materials may be out of date – see page 21 of 24 in the posted redline version. Include reference to FERC Order 829 for Parts 2.4 and 2.5 | |
| Consider adding a CIP Exceptional Circumstance clause to R2 Parts 2.4 and 2.5 | |

| | |
|----------|---|
| Likes | 0 |
| Dislikes | 0 |

| | |
|-----------------|--|
| Response | |
| | |

| | |
|--|--------------------------------|
| Ginette Lacasse - Seattle City Light - 1,3,4,5,6 - WECC, Group Name | Seattle City Light Ballot Body |
|--|--------------------------------|

| | |
|---------------|-----|
| Answer | Yes |
|---------------|-----|

| | |
|----------------------|--|
| Document Name | 2016-03_Unofficial_Comment_Form_SCL_2017-6-14 Final to NERC.docx |
|----------------------|--|

| | |
|----------------|--|
| Comment | |
|----------------|--|

| | |
|------------------------|--|
| See attached comments. | |
|------------------------|--|

| | |
|----------|---|
| Likes | 0 |
| Dislikes | 0 |

| | |
|-----------------|--|
| Response | |
| | |

| | |
|--|----------|
| Patricia Robertson - BC Hydro and Power Authority - 1, Group Name | BC Hydro |
|--|----------|

| | |
|---------------|-----|
| Answer | Yes |
|---------------|-----|

| | |
|----------------------|--|
| Document Name | |
|----------------------|--|

| | |
|----------------|--|
| Comment | |
|----------------|--|

| | |
|--|--|
| BC Hydro sees value in adding the machine to machine vendor remote access component. | |
|--|--|

| | |
|-------|---|
| Likes | 0 |
|-------|---|

Dislikes 0

Response

Andrew Gallo - Austin Energy - 6

Answer

Yes

Document Name

Comment

AE agrees with R2 Part 2.4 but requests clarification of the term “determining.”

AE generally agrees with Proposed R2 Part 2.5, but requests revisions to the rationale for R2. The last sentence of paragraph 2 states the objective “is for entities to have the ability to rapidly disable active remote access sessions...” The Responsible Entity may not have the capability to disable access during an “active” remote access session. AE requests changing the language to “upon detected unauthorized activity.”

Likes 0

Dislikes 0

Response

Joe Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Jamie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of Northern California, 1; Lori Folkman, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; - Joe Tarantino

Answer

Yes

Document Name

Comment

SMUD agrees with R2 Part 2.4 but requests clarification of the term “determining.”

SMUD generally agrees with Proposed R2 Part 2.5 but requests revisions to the Rationale for R2. The last sentence of paragraph 2 of the rationale states the objective “is for entities to have the ability to rapidly disable active remote access sessions...” The Responsible Entity may not have the capability to disable access during an “active” remote access session. SMUD requests changing the language to “upon detected unauthorized activity.” Clarification or formal definition of the term ‘vendor’ should be considered. ICCP and DNP3 traffic is routine system-to-system remote

access between utilities, Operation and Maintenance vendors and other partners to provide reliability, without the term 'vendor' clarified, these protocols may fall into scope unnecessarily.

Likes 0

Dislikes 0

Response

Tyson Archie - Platte River Power Authority - 5

Answer

Yes

Document Name

Comment

PRPA agrees with R2 Part 2.4 but requests clarification of the term "determining."

PRPA generally agrees with Proposed R2 Part 2.5 but requests revisions to the Rationale for R2. The last sentence of paragraph 2 of the rationale states the objective "is for entities to have the ability to rapidly disable active remote access sessions..." The Responsible Entity may not have the capability to disable access during an "active" remote access session. PRPA requests changing the language to "upon detected unauthorized activity."

Likes 0

Dislikes 0

Response

Anthony Jablonski - ReliabilityFirst - 10

Answer

Yes

Document Name

Comment

ReliabilityFirst agrees the changes to CIP-005-6 address directives from Federal Energy Regulatory Commission (FERC) Order No. 829 to develop a new or modified standard to address "supply chain risk management for industrial control system hardware, software, and computing and networking services associated with bulk electric system operations." ReliabilityFirst offers the following specific comments for consideration.

1. Requirement R2 Part 2.3
 - i. To be consistent with Parts 2.1 and 2.2 in the Standard, ReliabilityFirst offers the following modifications for consideration:
 - a. [For all Interactive Remote Access sessions, require] multi-factor authentication.
2. Requirement R2 Part 2.4

i. ReliabilityFirst believes more context should be placed around the term “determining”. ReliabilityFirst offers the following modifications for consideration:

- a. Have one or more method(s) for [authorizing, monitoring, and logging] active vendor remote access sessions (including Interactive Remote Access and system-to-system remote access).

Likes 0

Dislikes 0

Response

Allan Long - Memphis Light, Gas and Water Division - 1

Answer

Yes

Document Name

Comment

Because the term "vendor" is not a NERC-defined term, the SDT should provide guidance regarding its use.

A "CIP Exceptional Circumstance" clause should be added to R2, Parts 2.4 and 2.5.

Likes 0

Dislikes 0

Response

Steven Sconce - EDF Renewable Energy - 5

Answer

Yes

Document Name

Comment

A definition of “vendor” is necessary. This should be interpreted as any third-party that initiates a remote access session. Not every third-party is necessarily considered a “vendor” based on generally accepted definitions.

With respect to the proposed Requirement 2 Part 2.4, additional details need to be provided on the expectations of “determining active vendor remote access sessions”. Two of the proposed measures state, “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; **or** Methods that control vendor initiation of remote access such as vendors calling and requesting a second factor in order to initiate remote access.” The former will be difficult to actively monitor for remote access. Remote access can be monitored, but this activity is too resource intensive to monitor in real-time. If it is necessary to actively monitor remote access in real-time then additional guidance is necessary. The latter is easily implemented. It is uncertain whether this requirement is expecting constant monitoring during the remote access session or just controlling access and logging the access. A more detailed expectation on the use of the reference tools is necessary.

Likes 0

Dislikes 0

Response

Daniel Grinkevich - Con Ed - Consolidated Edison Co. of New York - 1

Answer Yes

Document Name

Comment

No comment.

Likes 0

Dislikes 0

Response

Aaron Ghodooshim - FirstEnergy - FirstEnergy Corporation - 1,3,4,5,6 - RF, Group Name FirstEnergy Corporation

Answer Yes

Document Name

Comment

As in Question 1, regarding the use of the term “vendor,” as described in the “Rationale for Requirement R2” section of CIP-005-6: the SDT may want to clarify that staff augmentation contractors are not considered to be “vendors” in the context of the standard.

Likes 0

Dislikes 0

Response

Jeff Icke - Colorado Springs Utilities - 5

Answer Yes

Document Name

Comment

Colorado Springs Utilities supports the comments provided by APPA

Likes 0

Dislikes 0

Response

Mick Neshem - Public Utility District No. 1 of Chelan County - 3

Answer Yes

Document Name

Comment

CHPD supports these changes.

Likes 0

Dislikes 0

Response

Chad Bowman - Public Utility District No. 1 of Chelan County - 1

Answer Yes

Document Name

Comment

CHPD supports these changes.

Likes 0

Dislikes 0

Response

Haley Sousa - Public Utility District No. 1 of Chelan County - 5

Answer Yes

Document Name

Comment

CHPD supports these changes.

Likes 0

Dislikes 0

Response

Janis Weddle - Public Utility District No. 1 of Chelan County - 6

Answer Yes

Document Name

Comment

CHPD supports these changes.

Likes 0

Dislikes 0

Response

Bob Thomas - Illinois Municipal Electric Agency - 4

Answer Yes

Document Name

Comment

Illinois Municipal Electric Agency supports comments submitted by the American Public Power Association.

Likes 0

Dislikes 0

Response

Shelby Wade - PPL - Louisville Gas and Electric Co. - 1,3,5,6 - SERC,RF, Group Name PPL NERC Registered Affiliates

Answer Yes

Document Name

Comment

We request clarification on whether “system-to-system” access applies to access that is “one-way” where the remote end conducts only monitoring activity and no control is possible, or whether the SDT intent is that any system-to-system access be included. We would suggest that the SDT add verbiage to the Guidelines and Technical Basis making the distinction for each type of “active vendor remote access sessions” that are included in this requirement (Interactive Remote Access, system-to-system remote access with control, and/or system-to-system remote access for monitoring only). Another suggestion would be to create a formal NERC definition of system-to-system access.

Likes 0

Dislikes 0

Response

Bradley Calbick - Bradley Calbick On Behalf of: Bryan Cox, Avista - Avista Corporation, 3, 1, 5; - Bradley Calbick

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Venona Greaff - Oxy - Occidental Chemical - 7, Group Name Oxy

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Glen Farmer - Avista - Avista Corporation - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Rhonda Bryant - El Paso Electric Company - 3

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Pablo Onate - El Paso Electric Company - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Victor Garzon - El Paso Electric Company - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Wesley Maurer - Lower Colorado River Authority - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Brenda Hampton - Luminant - Luminant Energy - 6, Group Name Luminant

| | |
|---|-----|
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Aaron Cavanaugh - Bonneville Power Administration - 1,3,5,6 - WECC | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| LeRoy Patterson - Public Utility District No. 2 of Grant County, Washington - 6 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Shannon Mickens - Southwest Power Pool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |

Dislikes 0

Response

Heather Morgan - EDP Renewables North America LLC - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Melanie Seader - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

John Williams - Tallahassee Electric (City of Tallahassee, FL) - 3

Answer Yes

Document Name

Comment

Likes 1 Tallahassee Electric (City of Tallahassee, FL), 1, Langston Scott

Dislikes 0

Response

Andrew Meyers - Bonneville Power Administration - 6

Answer Yes

| | |
|--|-----|
| Document Name | |
| Comment | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Andrey Komissarov - Andrey Komissarov On Behalf of: Jerome Gobby, Sempra - San Diego Gas and Electric, 5, 3, 1; - Andrey Komissarov | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Alex Ybarra - Public Utility District No. 2 of Grant County, Washington - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Lauren Price - American Transmission Company, LLC - 1 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes 0 | |
| Dislikes 0 | |

Response

Harold Sherrill - Harold Sherrill On Behalf of: Martine Blair, Sempra - San Diego Gas and Electric, 5, 3, 1; - Harold Sherrill

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Amelia Sawyer - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Shawn Abrams - Santee Cooper - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Sean Bodkin - Dominion - Dominion Resources, Inc. - 6, Group Name Dominion

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Val Ridad - Silicon Valley Power - City of Santa Clara - 3,5

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Sandra Pacheco - Silicon Valley Power - City of Santa Clara - 3,5

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Brian Millard - Tennessee Valley Authority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Bill Watson - Old Dominion Electric Coop. - 3

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Randy Buswell - VELCO -Vermont Electric Power Company, Inc. - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Michael Shaw - Lower Colorado River Authority - 6, Group Name LCRA Compliance

Answer

Document Name

Comment

Please clarify definition of system-system communications

Likes 0

Dislikes 0

Response

Scott Miller - Scott Miller On Behalf of: David Weekley, MEAG Power, 3, 5, 1; Roger Brand, MEAG Power, 3, 5, 1; Steven Grego, MEAG Power, 3, 5, 1; - Scott Miller, Group Name MEAG Power

Answer

Document Name

Comment

MEAG supports the answers and comments of Salt River Project.

Likes 0

Dislikes 0

Response

Russel Mountjoy - Midwest Reliability Organization - 10, Group Name MRO NSRF

Answer

Document Name

Comment

The NSRF question the use of "...*active* vendor..." in part 2.4 and 2.5 Requirements. The word "active" could mean either "the vendor is currently allowed electronic access and is currently within a BES Cyber Asset" OR "the vendor is idle and but has electronic access to a BES Cyber Asset". The NSRF recommends that "active" be removed as this will provide clarity to applicable entities. If active sessions was the SDT thought process, please state that within the proposed part.

Likes 0

Dislikes 0

Response

3. The SDT developed proposed CIP-010-3 Requirement R1 Part 1.6 to address the Order No. 829 directive for entities to address verification of software integrity and authenticity in the BES Cyber System environment (P 48). The SDT followed an approach recommended by stakeholders during the initial posting of CIP-013-1. Do you agree with proposed revisions in CIP-010-3? If you do not agree, or if you agree but have comments or suggestions for the proposed requirement, please provide your recommendation and explanation.

Michael Shaw - Lower Colorado River Authority - 6, Group Name LCRA Compliance

Answer No

Document Name

Comment

Disagree with the revisions on CIP-010-3, would like to see guideline language of verifying once be moved to the requirement/measure

Likes 0

Dislikes 0

Response

Wesley Maurer - Lower Colorado River Authority - 5

Answer No

Document Name

Comment

Need additional information regarding how to verify integrity of software.

Likes 0

Dislikes 0

Response

Colby Bellville - Duke Energy - 1,3,5,6 - FRCC,SERC,RF, Group Name Duke Energy

Answer No

Document Name

Comment

Duke Energy requests additional guidance as to what constitutes acceptable verification of integrity as required by R1.6.2. The measure indicates that a change request record could demonstrate that source identity and integrity verification took place, but doesn't go into further detail as to what an acceptable check into source identity and software would be. Is there specific language that should be stated in the change request record that would clearly state the verification took place? More guidance on this aspect is requested.

Also, Duke Energy requests that the Note under Applicable Systems in Part 1.6 should remain there once the standard is approved. The Note provides valuable details as to the true scope of the Requirement, and aids entities in knowing what will be the compliance expectation.

Likes 0

Dislikes 0

Response

Timothy Reyher - Eversource Energy - 5

Answer

No

Document Name

Comment

Comments:

The proposed requirement would possibly involve entities duplicating effort for every case for which such verification had to be undertaken (i.e. the cases of multiple installations of a given piece of software across many similar applicable Cyber Assets). This does not seem consistent with the intent of the protection and could present an undue compliance burden without providing the intended protection. Request guidance on using trusted internal repositories as a software source so that Entity can verify once and use many

VSL does not cover the failure to implement the process. Does not include all of the combinations.

Concerns with 1.6.1 and 1.6.2 as written --- how to provide evidence? Request more examples of evidence

We suggest rephrasing “when the method to do so is available to the Responsible Entity from the software source” to “when the vendor supplied method to do so is available to Responsible Entity”. Otherwise the “method to do so” is ambiguous and leaves the following questions:

How does one prove that a method is not available?

What is the line between available/unavailable? How far do you have to go?

We are concerned with double jeopardy potential with CIP-007 R2. We feel that if it is impossible to validate the source or verify authenticity of the patch itself we would not consider that patch to be available.

Likes 0

Dislikes 0

Response

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion

Answer No

Document Name

Comment

The proposed requirement would possibly involve entities duplicating effort for every case for which such verification had to be undertaken (i.e. the cases of multiple installations of a given piece of software across many similar applicable Cyber Assets). This does not seem consistent with the intent of the protection and could present an undue compliance burden without providing the intended protection. Request guidance on using trusted internal repositories as a software source so that Entity can verify once and use many

VSL does not cover the failure to implement the process. Does not include all of the combinations.

Concerns with 1.6.1 and 1.6.2 as written --- how to provide evidence? Request more examples of evidence

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How does one prove that a method is not available?

What is the line between available/unavailable? How far do you have to go?

We are concerned with double jeopardy potential with CIP-007 R2. We feel that if it is impossible to validate the source or verify authenticity of the patch itself we would not consider that patch to be available.

Likes 1 Chantal Mazza, N/A, Mazza Chantal

Dislikes 0

Response

David Francis - SRC - 1,2 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF, Group Name SRC + SWG

Answer No

Document Name

Comment

The proposed requirement would possibly involve entities duplicating effort for every case for which such verification had to be undertaken (i.e. the cases of multiple installations of a given piece of software across many similar applicable Cyber Assets). This does not seem consistent with the intent of the protection and could present an undue compliance burden without providing the intended protection.

Likes 0

Dislikes 0

Response**William Harris - Foundation for Resilient Societies - 8****Answer**

No

Document Name**Comment**

See attached integrated comments.

Likes 0

Dislikes 0

Response**Elizabeth Axson - Electric Reliability Council of Texas, Inc. - 2****Answer**

No

Document Name**Comment**

To avoid an interpretation of this requirement that may be overly burdensome, ERCOT suggests the following clarifications to the language in the requirement and measure of CIP-010-3 R1 Part 1.6. This would ensure a more holistic and less prescriptive approach to changes that deviate from the baseline.

In the first sentence of Requirement R1.6, revise “For a change that deviates” to “Where technically feasible, for changes that deviate...”

Revise the R1.6 Measure to read “An example of evidence may include, but is not limited to, a change request record that demonstrates the verification of identity of the software source and integrity of the software was performed during the baseline change, *or a process which documents the mechanisms in place that would automatically ensure the authenticity and integrity of the software.*”

Likes 0

Dislikes 0

Response

Richard Vine - California ISO - 2

Answer No

Document Name

Comment

The ISO supports the comments of the Security Working Group (SWG)

Likes 0

Dislikes 0

Response

Janis Weddle - Public Utility District No. 1 of Chelan County - 6

Answer No

Document Name

Comment

CHPD believes the R1.6 “Note:” within the Applicable Systems section (shown below) must be removed to be consistent with the CHPD response to question 1; “CHPD has concerns about language related to procurement contracts, in particular use of master agreements, piggyback agreements, and evergreen agreements. To address these concerns and position CIP-013 as a performance based Standard, CHPD recommends that all references to “contracts” and most references to “procurement” be struck from CIP-013.”

CIP-010 R1.6 – Applicable System Note

“Note: Implementation does not require the Responsible Entity to renegotiate or abrogate existing contracts (including amendments to master agreements and purchase orders). Additionally, the following issues are beyond the scope of Part 1.6: (1) the actual terms and conditions of a procurement contract; and (2) vendor performance and adherence to a contract.”

Likes 0

Dislikes 0

Response

Haley Sousa - Public Utility District No. 1 of Chelan County - 5

Answer No

Document Name

Comment

CHPD believes the R1.6 “Note:” within the Applicable Systems section (shown below) must be removed to be consistent with the CHPD response to question 1; “CHPD has concerns about language related to procurement contracts, in particular use of master agreements, piggyback agreements, and evergreen agreements. To address these concerns and position CIP-013 as a performance based Standard, CHPD recommends that all references to “contracts” and most references to “procurement” be struck from CIP-013.”

CIP-010 R1.6 – Applicable System Note

“Note: Implementation does not require the Responsible Entity to renegotiate or abrogate existing contracts (including amendments to master agreements and purchase orders). Additionally, the following issues are beyond the scope of Part 1.6: (1) the actual terms and conditions of a procurement contract; and (2) vendor performance and adherence to a contract.”

Likes 0

Dislikes 0

Response

Chad Bowman - Public Utility District No. 1 of Chelan County - 1

Answer

No

Document Name

Comment

CHPD believes the R1.6 “Note:” within the Applicable Systems section (shown below) must be removed to be consistent with the CHPD response to question 1; “CHPD has concerns about language related to procurement contracts, in particular use of master agreements, piggyback agreements, and evergreen agreements. To address these concerns and position CIP-013 as a performance based Standard, CHPD recommends that all references to “contracts” and most references to “procurement” be struck from CIP-013.”

CIP-010 R1.6 – Applicable System Note

“Note: Implementation does not require the Responsible Entity to renegotiate or abrogate existing contracts (including amendments to master agreements and purchase orders). Additionally, the following issues are beyond the scope of Part 1.6: (1) the actual terms and conditions of a procurement contract; and (2) vendor performance and adherence to a contract.”

Likes 0

Dislikes 0

Response

Mick Neshem - Public Utility District No. 1 of Chelan County - 3

Answer

No

Document Name

Comment

CHPD believes the R1.6 “Note:” within the Applicable Systems section (shown below) must be removed to be consistent with the CHPD response to question 1; “CHPD has concerns about language related to procurement contracts, in particular use of master agreements, piggyback agreements, and evergreen agreements. To address these concerns and position CIP-013 as a performance based Standard, CHPD recommends that all references to “contracts” and most references to “procurement” be struck from CIP-013.”

CIP-010 R1.6 – Applicable System Note

“Note: Implementation does not require the Responsible Entity to renegotiate or abrogate existing contracts (including amendments to master agreements and purchase orders). Additionally, the following issues are beyond the scope of Part 1.6: (1) the actual terms and conditions of a procurement contract; and (2) vendor performance and adherence to a contract.”

Likes 0

Dislikes 0

Response

Daniel Grinkevich - Con Ed - Consolidated Edison Co. of New York - 1

Answer

No

Document Name

Comment

The language should make clear that verification is required for the software intake process, but not for each subsequent installation.

We suggest rephrasing “when the method to do so is available to the Responsible Entity from the software source” to “when the vendor supplied method to do so is available to Responsible Entity”. Otherwise the “method to do so” is ambiguous and leaves the following questions:

- How does one prove that a method is not available?
- What is the line between available/unavailable? How far do you have to go?

We are concerned with double jeopardy potential with CIP-007 R2. We feel that if it is impossible to validate the source or verify authenticity of the patch itself we would not consider that patch to be available.

Likes 0

Dislikes 0

Response

Shawn Abrams - Santee Cooper - 1

Answer

No

Document Name

Comment

Need clarification about how the addition of R1.6 applies only to BES Cyber Systems that are newly implemented and thus did not previously have a baseline and as such do not have an existing baseline to deviate from. Please clarify that this is for new BES Cyber Systems to avoid confusion and challenges during an audit.

Need some additional examples of what constitutes evidence to meet compliance to this standard. Some systems are not connected to the internet purposefully and as such patches are installed utilizing a CD/DVD provided by the vendor. What would constitute appropriate evidence for a case such as this?

This requirement is not clear whether an entity has to duplicate efforts for every case for which such verification has to be undertaken (i.e. the cases of multiple installations of a given piece of software across many similar applicable Cyber Assets). This does not seem consistent with the intent of the protection and could present an undue compliance burden without providing the intended protection. Request guidance on using trusted internal repositories as a software source so that an entity can verify once and apply to many assets.

Likes 0

Dislikes 0

Response

Thomas Foltz - AEP - 5

Answer

No

Document Name

Comment

Since the intent of CIP-010-3 R1.6 is a proactive verification of software integrity, R1.6 should focus on a single verification prior to introducing vendor software into the production environment. The current language of R1.6 utilizes a retroactive focus via baseline deviations. Please see the suggested wording - "Prior to introducing software not resident in baseline items (per 1.1.1, 1.1.2, and 1.1.5), and when the method to do so is available to the Responsible Entity from the software source:

1.6.1. Verify the identity of the software source; and

1.6.2. Verify the integrity of the software obtained from the software source."

Likes 0

Dislikes 0

Response

Michael Haff - Seminole Electric Cooperative, Inc. - 1,3,4,5,6 - FRCC

Answer No

Document Name

Comment

Proposed Requirement R1 Part 1.6 appears to require verification of identity and integrity of applicable changes to the baseline. However, the measure for this requirement gives an example of having a process, e.g., a change request record, instead of a specific example of verification. Can the team clarify the measure for this Requirement as an entity can have a change ticket process that merely requires the user to click a button that states that the software has been verified, however, if the team believes proof of such check, such as a screenshot of the vendor site, is required, please state such as an example.

Additionally, the example of evidence does not demonstrate how a software source or the software integrity is verified. An internal change ticket is not a verification of the software source. If they are going to push for source verification then modify CIP-007 R2.1 to include it. Specifically, what is expected as evidence -- a hash, screenshot, attestation, digital signature?

Likes 0

Dislikes 0

Response

Anthony Jablonski - ReliabilityFirst - 10

Answer No

Document Name

Comment

Even though ReliabilityFirst believes the changes to CIP-010-3 draft standard address directives from Federal Energy Regulatory Commission (FERC) Order No. 829 and is a positive step in addressing cyber supply chain management, ReliabilityFirst Abstains mainly due to Requirement R1 missing Electronic Access Control or Monitoring Systems (EACMS), Physical Access Control Systems (PACS), and Protected Cyber Assets (PCAs). ReliabilityFirst offers the following specific comments for consideration.

1. Requirement R1 Part 1.6
2.
 - i. ReliabilityFirst believes the “Applicable Systems” under Requirement R1 Part 1.6 should be consistent with “Applicable Systems” under parts 1.1, since sub-parts (Part 1.1.1, 1.1.2, & 1.1.5) are called out under the “Requirements” section for Part 1.6. EACMS and PACS are critical cyber assets that control access and monitoring into the entities’ ESPs and PSPs and should follow the Supply Chain standard/requirements as do the High and Medium Impact Cyber Systems. As for the PCAs, if they are compromised due to a vulnerability in the vendors supplied hardware or software, they can possibly affect high and medium impact BES Cyber Systems. ReliabilityFirst offers the following modifications for consideration for the “Applicable Systems” column in Requirement R1 Part 1.6:
 - a. High Impact BES Cyber Systems and their associated: 1. EACMS; 2. PACS; and 3. PCA
 - b. Medium Impact BES Cyber Systems and their associated: 1. EACMS; 2. PACS; and 3. PCA

3. Requirement R1 Part 1.6.3 (new sub-part)

- i. ReliabilityFirst believes a new sub-part 1.6.3 should be added to address the verification of the baseline configuration. ReliabilityFirst offers the following new sub-part 1.6.3 for consideration:
 - a. Verify the deviations from the baseline configuration.

Likes 0

Dislikes 0

Response

Patricia Robertson - BC Hydro and Power Authority - 1, Group Name BC Hydro

Answer

No

Document Name

Comment

BC Hydro does not agree with value-add of this standard requirement. Under current CIP requirements, CIP controls around testing of changes and ongoing monitoring of systems would mitigate any risk associated with software identity or integrity.

Likes 0

Dislikes 0

Response

Richard Kinas - Orlando Utilities Commission - 5

Answer

No

Document Name

Comment

There is nothing wrong with the concept of the requirement however the language of the requirement is not supportable. The term available could mean technically available, procedurally available, contractually available, freely available (no support purchase required). As written this requirement by its nature will be implemented and assessed drastically differently by different Responsible Entities. One could argue that only if all the available methods listed above exist in unison is software actually available.

Likes 0

Dislikes 0

Response

Tho Tran - Oncor Electric Delivery - 1 - Texas RE

| | |
|--|----|
| Answer | No |
| Document Name | |
| Comment | |
| <p>There are auditing challenges around the phrase “when the method to do so is available to the Responsible Entity from the software source” as it is hard to prove a negative. Oncor believes that verification of software source and integrity can take many forms. To take into consideration legacy software, Oncor believes the wording should be adjusted, to reflect FERC intentions that the requirements are forward looking, by replacing the phrase “and when the method to do so is available to the Responsible Entity from the software source” with “and, at a minimum, for the portion of the software that has changed.”</p> <p>Second, the proposed requirement would possibly involve entities duplicating effort for every case for which such verification had to be undertaken (i.e. the cases of multiple installations of a given piece of software across many similar applicable Cyber Assets). We offer a recommendation on the language, “Document and implement a software source management process to address source identity verification and media integrity controls on the software repository used for changes that deviate from the existing baseline configuration associated with items in parts 1.1.1, 1.1.2, and 1.1.5.”</p> <p><i>This process must include steps:</i></p> <ul style="list-style-type: none"> <i>&bull; To verify the identity of the software source when the method to do so is available; and</i> <i>&bull; To verify the integrity of the software obtained when the method to do so is available.</i> <p><i>Evidence may include verification of identity of the software source and integrity of the software was performed for repository updates.”</i></p> | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| Don Schmit - Nebraska Public Power District - 5 | |
| Answer | No |
| Document Name | |
| Comment | |
| <p>NPPD supports the comments of the MRO NSRF, in addition:</p> <p>Auditors will have too much discretion as to what is or is not enough for a validation check of each vendor, which will lead to inconsistencies across the NERC RE footprint. It is up to entities to document what the vendor is willing to do and hope the auditors agree it is enough to continue doing business with the vendor. Also, the language of the requirement says “...when the method to do so is available...”. If a vendor does not have a method to do so, but does in the next year or so, the entity may have a possible violation if it did not realize there was a change in the vendor’s available methods. This would force entities to periodically check to see if the vendor capabilities have changed. What is the period that would not make this a violation? The requirement is very vague.</p> | |
| Likes | 0 |
| Dislikes | 0 |

Response

Mark Holman - PJM Interconnection, L.L.C. - 2

Answer Yes

Document Name

Comment

As currently written, "verify the identity" is too vague. PJM suggests adding examples of "identify" into the measure. PJM also suggests removing the word "software" from 1.6.1 and 1.6.2 as it is already stated within parts 1.1.1, 1.1.2 and 1.1.5 (firmware should be within the scope of 1.6).

Likes 0

Dislikes 0

Response

Jesus Sammy Alcaraz - Imperial Irrigation District - 1

Answer Yes

Document Name

Comment

The proposed requirement would possibly involve entities duplicating effort for every case for which such verification had to be undertaken (i.e. the cases of multiple installations of a given piece of software across many similar applicable Cyber Assets). This does not seem consistent with the intent of the protection and could present an undue compliance burden without providing the intended protection. Request guidance on using trusted internal repositories as a software source so that Entity can verify once and use many.

Concerns with 1.6.1 and 1.6.2 as written --- how to provide evidence? Request more examples of evidence.

We support these changes, but requests clarification about how new R1.6 applies to entirely new BES Cyber Systems (BCS), i.e., BCS that are newly implemented, have not previously had a baseline, and thus do not have an existing baseline for a change to deviate from. We expect that R1.6 is intended to apply to new BCS as well as to existing BCS, but as written the requirement does not. Please clarify to avoid implementation confusion and audit challenges.

Likes 0

Dislikes 0

Response

Quintin Lee - Eversource Energy - 1

Answer Yes

Document Name

Comment

Request clarification on how an Entity can verify the 'integrity and authenticity' one time and then be able to install on multiple devices.

Recommend removing CIP-013 R1 subparts 1.2.5 from CIP-013 since it is covered in the proposed CIP-010-3

The proposed requirement would possibly involve entities duplicating effort for every case for which such verification had to be undertaken (i.e. the cases of multiple installations of a given piece of software across many similar applicable Cyber Assets). This does not seem consistent with the intent of the protection and could present an undue compliance burden without providing the intended protection. Request guidance on using trusted internal repositories as a software source so that Entity can verify once and use many

VSL does not cover the failure to implement the process. Does not include all of the combinations.

Concerns with 1.6.1 and 1.6.2 as written --- how to provide evidence? Request more examples of evidence

We suggest rephrasing "when the method to do so is available to the Responsible Entity from the software source" to "when the vendor supplied method to do so is available to Responsible Entity". Otherwise the "method to do so" is ambiguous and leaves the following questions:

How does one prove that a method is not available?

What is the line between available/unavailable? How far do you have to go?

We are concerned with double jeopardy potential with CIP-007 R2. We feel that if it is impossible to validate the source or verify authenticity of the patch itself we would not consider that patch to be available.

Likes 0

Dislikes 0

Response

Stephanie Little - Stephanie Little

Answer

Yes

Document Name

Comment

To ensure that resources are appropriately focused on changes to be applied, AZPS recommends clarifying that verification should be completed "prior to application of a change." Such a clarification will signal to entities that verification only needs to be performed where a change will be applied and avoid circumstances where a change is being evaluated for application and verification occurs, but the change is not applied. Under the current obligation, it is likely that verifications and associated evidence would be prepared regardless of whether the change is or is not applied and would therefore result in the dedication of resources to efforts that would have no benefit to reliability or security.

Additionally, AZPS requests clarification regarding the continued need for verification evidence where such is not available from the vendor. Specifically, AZPS notes that, where a vendor's policy does not provide the necessary evidence associated with verification, this Requirement may frequently represent null evidence for areas where items are reviewed each time a change occurs, but no data is available due to the vendor's policies. Such efforts would be redundant and of little or no value to security and reliability.

Likes 0

Dislikes 0

Response

Brenda Hampton - Luminant - Luminant Energy - 6, Group Name Luminant

Answer Yes

Document Name

Comment

Add language to address CIP Exceptional Circumstances.

Likes 0

Dislikes 0

Response

Linda Jacobson-Quinn - City of Farmington - 3

Answer Yes

Document Name

Comment

FEUS supports the comments submitted by APPA

Likes 0

Dislikes 0

Response

Michael Brytowski - Michael Brytowski On Behalf of: Donna Stephenson, Great River Energy, 5, 3, 1, 6; - Michael Brytowski

Answer Yes

Document Name

Comment

GRE and NRECA supports the revisions to CIP-010-2. However, in the GTB the SDT should clarify the meaning of this sentence: "For example, in the System and Information Integrity (SI) control family, control SI-7 suggests that the integrity of information systems and obtaining software directly from the developer." This sentence seems to be incomplete and further words are needed to complete it.

Likes 0

Dislikes 0

Response

David Ramkalawan - Ontario Power Generation Inc. - 5

Answer Yes

Document Name

Comment

OPG suggest that 1.6.1 state "Verify the software originated from the vendor's official source(s)". In the current text, even if a source has an "identity", it should also state the "identity" is the one that is expected. Similarly we can change the word "identity" with "correct identity" in R1 Part 1.6.1.

Likes 0

Dislikes 0

Response

Warren Cross - ACES Power Marketing - 1,3,4,5 - WECC,Texas RE,SERC,SPP RE,RF, Group Name ACES Standards Collaborators

Answer Yes

Document Name

Comment

By adding the "when the method to do so is available to the Entity from the software source" does this require the entity to document and detail what method is available of not available? How does that entity prove and document this condition? Does the entity have to document and prove that it was tested and verified for software integrity and authenticity? If so, what are those requirements, documentation, testing environment required and timeline for testing the software?

Likes 0

Dislikes 0

Response

Mark Riley - Associated Electric Cooperative, Inc. - 1, Group Name AECE & Member G&Ts

Answer Yes

Document Name

Comment

AECE supports NRECA's comments provided below:

NRECA supports the revisions to CIP-010-2. However, in the GTB the SDT should clarify the meaning of this sentence: "For example, in the System and Information Integrity (SI) control family, control SI-7 suggests that the integrity of information systems and obtaining software directly from the developer." This sentence seems to be incomplete and further words are needed to complete it.

Likes 0

Dislikes 0

Response

Jason Snodgrass - Georgia Transmission Corporation - 1

Answer

Yes

Document Name

Comment

GTC supports NRECA comments:

NRECA supports the revisions to CIP-010-2. However, in the GTB the SDT should clarify the meaning of this sentence: "For example, in the System and Information Integrity (SI) control family, control SI-7 suggests that the integrity of information systems and obtaining software directly from the developer." This sentence seems to be incomplete and further words are needed to complete it.

Likes 0

Dislikes 0

Response

Victor Garzon - El Paso Electric Company - 5

Answer

Yes

Document Name

Comment

EPE understands the need for software integrity and authenticity; however, the proposed wording of the standard is not sufficiently clear with respect to the action/conduct being sought by the Registered Entity in order to achieve compliance. In Order No. 829, FERC offered clarity that the proposed requirement does not capture. There, FERC stated:

For example, in the System and Information Integrity (SI) control family, control SI-7 suggests that the integrity of information systems and components should be tested and verified using controls such as digital signatures and obtaining software directly from the developer. In the Configuration Management (CM) control family, control CM-5(3) requires that the information system prevent the installation of firmware or software without **verification that the component has been digitally signed** to ensure that hardware and software components are genuine and valid. NIST SP-800-161, while not meant to be definitive, provides **examples of controls for addressing the Commission's directive regarding this first objective. Other security controls also could meet this objective.** Order No 829 at P 50 (emphasis added).

Requirement 1.6 should be adjusted to provide the type of clarity FERC provided in the Order. An additional sentence or parenthetical should be included within the requirement, to read ("Verification that a patch or other software component has been digitally signed is one way to meet this requirement; other security controls could also meet this requirement, such as having the vendor state in writing that it will verify the integrity and

authenticity of all software, including patches, in advance of releasing it to the Registered Entity during the life of its service contract with the Registered Entity”).

The addition of such language *in the requirement itself* is consistent with the feedback offered by NERC Staff in recent months, and would eliminate the false impression that would otherwise be given that a Registered Entity must secure a verification letter from its software vendor each and every single time it seeks to download a patch. For example, during the NERC webinar held on May 18, 2017, examples were provided to the attendees on information that would be considered sufficient evidence to fulfill this requirement, and such examples included a letter from the vendor indicating that the vendor is verifying integrity and authenticity of its software before releasing its software (including patches) to its clients.

Likes 0

Dislikes 0

Response

Pablo Onate - El Paso Electric Company - 1

Answer

Yes

Document Name

Comment

EPE understands the need for software integrity and authenticity; however, the proposed wording of the standard is not sufficiently clear with respect to the action/conduct being sought by the Registered Entity in order to achieve compliance. In Order No. 829, FERC offered clarity that the proposed requirement does not capture. There, FERC stated:

For example, in the System and Information Integrity (SI) control family, control SI-7 suggests that the integrity of information systems and components should be tested and verified using controls such as digital signatures and obtaining software directly from the developer. In the Configuration Management (CM) control family, control CM-5(3) requires that the information system prevent the installation of firmware or software without **verification that the component has been digitally signed** to ensure that hardware and software components are genuine and valid. NIST SP-800-161, while not meant to be definitive, provides **examples of controls for addressing the Commission’s directive regarding this first objective. Other security controls also could meet this objective.** Order No 829 at P 50 (emphasis added).

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Likes 0

Dislikes 0

Response

Rhonda Bryant - El Paso Electric Company - 3

Answer

Yes

Document Name

Comment

EPE understands the need for software integrity and authenticity; however, the proposed wording of the standard is not sufficiently clear with respect to the action/conduct being sought by the Registered Entity in order to achieve compliance. In Order No. 829, FERC offered clarity that the proposed requirement does not capture. There, FERC stated:

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The addition of such language *in the requirement itself* is consistent with the feedback offered by NERC Staff in recent months, and would eliminate the false impression that would otherwise be given that a Registered Entity must secure a verification letter from its software vendor each and every single time it seeks to download a patch. For example, during the NERC webinar held on May 18, 2017, examples were provided to the attendees on information that would be considered sufficient evidence to fulfill this requirement, and such examples included a letter from the vendor indicating that the vendor is verifying integrity and authenticity of its software before releasing its software (including patches) to its clients.

Likes 0

Dislikes 0

Response

Brandon Cain - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - SERC, Group Name Southern Company

Answer

Yes

| | |
|---|-----|
| Document Name | |
| Comment | |
| <p>Additional examples of acceptable evidence would be helpful under the Measures column of the requirement.</p> <p>Change the statement in the Guidelines and Technical Basis, Section Software Integrity and Authenticity, paragraph 1, third sentence: "The intent of the SDT is to provide controls for verifying the baseline elements that are <i>updated</i> by vendors." to say "... <i>provided</i> by vendors."</p> <p>Additional clarity is needed regarding the following in the Guidelines and Technical Basis: "It is not the intent of the SDT to require a verification of each source <i>or software update at the time it is obtained</i>. It is sufficient to <i>establish the reliable source and software update once</i>. This will allow automated solutions to be implemented to obtain frequent updates such as patches." This is confusing because saying "each source or software update" is not required to be validated at the time it is obtained could be interpreted to mean continuous patch updates provided by a single vendor are only required to be verified once for the lifetime of the supply of patches from that vendor.</p> <p>Additional examples of acceptable methods and evidence are needed in the Guidelines and Technical Basis for performing software integrity and authenticity.</p> <p>For example – Consider having the measures for R1.6 be similar to R1.1.</p> | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| | |
| Teresa Cantwell - Lower Colorado River Authority - 1 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| <p>Disagree with the revisions on CIP-010-3. We would like to see guideline language of verifying once be moved to the requirement/measure.</p> | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| | |
| John Martinsen - Public Utility District No. 1 of Snohomish County - 4 | |
| Answer | Yes |
| Document Name | |
| Comment | |

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Long Duong - Public Utility District No. 1 of Snohomish County - 1

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Mark Oens - Snohomish County PUD No. 1 - 3

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Sam Nietfeld - Public Utility District No. 1 of Snohomish County - 5

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Franklin Lu - Snohomish County PUD No. 1 - 6

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Shelby Wade - PPL - Louisville Gas and Electric Co. - 1,3,5,6 - SERC,RF, Group Name PPL NERC Registered Affiliates

Answer

Yes

Document Name

Comment

We request clarification on the timing of requirement 1.6; specifically, on whether 1.6 must be completed before being placed in operation on a BES Cyber System. This distinction was made in the previous draft (“one or more documented process(es) for verifying the integrity and authenticity of the following software and firmware before being placed in operation on high and medium impact BES Cyber Systems”). Under the current language, it appears sub-requirement 1.6 could be done before or after the software is placed on a BES Cyber System. We suggest the SDT add a timeframe similar to the other CIP-010 R1 sub-requirements. For example, 1.3 states “within 30 days” while 1.4.1 states “prior to the change”. Additionally, we request adding 1.1.3 (any custom software installed) to 1.6, as custom software could be internally or externally provided, and needs to be verified for integrity and authenticity.

Likes 0

Dislikes 0

Response

Bob Thomas - Illinois Municipal Electric Agency - 4

| | |
|--|-----|
| Answer | Yes |
| Document Name | |
| Comment | |
| Illinois Municipal Electric Agency supports comments submitted by the American Public Power Association. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Steven Rueckert - Western Electricity Coordinating Council - 10 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| No issues from an SCRM perspective. Part 1.6 is generic and can be considered a good idea for all changes from baseline configurations described in Parts 1.1.1, 1.1.2, and 1.1.5. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Jeff Icke - Colorado Springs Utilities - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Colorado Springs Utilities supports the comments provided by APPA | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Steven Sconce - EDF Renewable Energy - 5 | |
| Answer | Yes |
| Document Name | |

Comment

Need to emphasize the phrase “and when the method to do so is available to the Responsible Entity for the software source”. Since this is a non-prescriptive requirement it is expected that we will be demonstrating compliance by implementing the plan(s) required in CIP-013. Since it may not be possible to hold the software resource directly responsible it is expected that the demonstration of “best effort” will be sufficient and not subject to interpretation by the Compliance Enforcement Authority.

Recommend providing more examples of suitable evidence that should be gathered to verify identity and integrity. The Measure as currently written is too vague.

| | |
|-------|---|
| Likes | 0 |
|-------|---|

| | |
|----------|---|
| Dislikes | 0 |
|----------|---|

Response**Allan Long - Memphis Light, Gas and Water Division - 1**

| | |
|--------|-----|
| Answer | Yes |
|--------|-----|

| | |
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| Document Name | |
|---------------|--|

Comment

We support APPA's submitted comments, including:

This requirement would possibly involve entities duplicating effort for every case for which such verification had to be undertaken.

More examples of evidence should be provided.

Clarification is needed about how new R1.6 applies to entirely new BES Cyber Systems.

| | |
|-------|---|
| Likes | 0 |
|-------|---|

| | |
|----------|---|
| Dislikes | 0 |
|----------|---|

Response**Tyson Archie - Platte River Power Authority - 5**

| | |
|--------|-----|
| Answer | Yes |
|--------|-----|

| | |
|---------------|--|
| Document Name | |
|---------------|--|

Comment

PRPA agrees this requirement belongs in CIP-010 R1. PRPA generally agrees with Proposed R1 Part 1.6, but request the following items be addressed by the SDT:

- PRPA recommends the Guidelines and Technical Basis section is updated to reflect current information.
 - The requirement states “For a change that deviates from the existing baseline configuration associated with baseline items in Parts 1.1.1, 1.1.2, and 1.1.5...” indicating the authenticity and integrity of the specified parts need to be verified each time there is a change to a baseline for those parts. The proposed requirement would possibly involve entities duplicating effort for every case for which such verification had to be undertaken (i.e., in the cases of multiple installations of software across many applicable Cyber Assets). This does not seem consistent with the intent of the protection and could present an undue compliance burden without providing the intended protection. We believe that the existing statement in the GTB provides clarity on this issue and request that it not be removed. From the GTB: “It is not the intent of the SDT to require a verification of each source or software update at the time it is obtained. It is sufficient to establish the reliable source and software update once. This will allow automated solutions to be implemented to obtain frequent updates such as patches.”
 - PRPA also recommends the language of the requirement be re-worded to reflect the intent of the GTB, as an auditor audits to the requirement, not the GTB. Doing a verification of authenticity and integrity for each change to the baseline for the specified parts would be tedious and require entities to acquire additional resources to perform the work.
- There is no guidance on how to verify the identity (authenticity). Performing this verification could be difficult if the software/patch comes from a third party tool. Guidance on how this can be done needs to be made available to entities in order to perform an evaluation of the work and resources involved to achieve this requirement. Hashing was given as an example during an industry webinar, but this is not realistic for each type of system.
- Additional examples of acceptable measures should be listed. Additionally, PRPA requests examples of acceptable evidence when there is not a method available to verify the identity of the software source.
- While PRPA supports these changes, clarification is required about how new R1.6 applies to entirely new BES Cyber Systems (BCS), i.e., BCS that are newly implemented, have not previously had a baseline, and thus do not have an existing baseline for a change to deviate from. We expect that R1.6 is intended to apply to new BCS as well as to existing BCS, but as written the requirement does not. Please clarify to avoid implementation confusion and audit challenges.

Likes 0

Dislikes 0

Response

Amelia Sawyer - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE

Answer

Yes

Document Name

Comment

The Guidelines and Technical Basis of CIP-010-3 states: “It is not the intent of the SDT to require a verification of each source or software update at the time it is obtained. It is sufficient to establish the reliable source and software update once. This will allow automated solutions to be implemented to obtain frequent updates such as patches.”

CenterPoint Energy recommends incorporating this concept in the R2 requirement language in order to clarify that integrity and authenticity do not need to be verified for every source or software update, and that the download once and install on many approach is acceptable if the integrity and authenticity of the downloaded software are validated. CenterPoint Energy recommends adding the following language to Requirement R2:

Upon validation of the integrity and authenticity of software, a Responsible Entity does not need to verify the integrity and authenticity for subsequent updates of such software.

Likes 0

Dislikes 0

Response

Joe Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Jamie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of Northern California, 1; Lori Folkman, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; - Joe Tarantino

Answer

Yes

Document Name

Comment

SMUD agrees this requirement belongs in CIP-010 R1. SMUD generally agrees with Proposed R1 Part 1.6, but request the following items be addressed by the SDT:

- SMUD recommends the Guidelines and Technical Basis section is updated to reflect current information.
 - - The requirement states “For a change that deviates from the existing baseline configuration associated with baseline items in Parts 1.1.1, 1.1.2, and 1.1.5...” indicating the authenticity and integrity of the specified parts need to be verified each time there is a change to a baseline for those parts. The proposed requirement would possibly involve entities duplicating effort for every case for which such verification had to be undertaken (i.e., in the cases of multiple installations of software across many applicable Cyber Assets). This does not seem consistent with the intent of the protection and could present an undue compliance burden without providing the intended protection. We believe that the existing statement in the GTB provides clarity on this issue and request that it not be removed. From the GTB: “It is not the intent of the SDT to require a verification of each source or software update at the time it is obtained. It is sufficient to establish the reliable source and software update once. This will allow automated solutions to be implemented to obtain frequent updates such as patches.”
 - SMUD also recommends the language of the requirement be re-worded to reflect the intent of the GTB, as an auditor audits to the requirement, not the GTB. Doing a verification of authenticity and integrity for each change to the baseline for the specified parts would be tedious and require entities to acquire additional resources to perform the work.
 - There is no guidance on how to verify the identity (authenticity). Performing this verification could be difficult if the software/patch comes from a third party tool. Guidance on how this can be done needs to be made available to entities in

order to perform an evaluation of the work and resources involved to achieve this requirement. Hashing was given as an example during an industry webinar, but this is not realistic for each type of system.

- Additional examples of acceptable measures should to be listed. Additionally, SMUD requests examples of acceptable evidence when there is not a method available to verify the identity of the software source.

- While SMUD supports these changes, clarification is required about how new R1.6 applies to entirely new BES Cyber Systems (BCS), i.e., BCS that are newly implemented, have not previously had a baseline, and thus do not have an existing baseline for a change to deviate from. We expect that R1.6 is intended to apply to new BCS as well as to existing BCS, but as written the requirement does not. Please clarify to avoid implementation confusion and audit challenges.

•

Likes 0

Dislikes 0

Response

Andrew Gallo - Austin Energy - 6

Answer

Yes

Document Name

Comment

AE agrees this requirement belongs in CIP-010 R1 and generally agrees with Proposed R1 Part 1.6, but request the SDT address the following items:

AE recommends the Guidelines and Technical Basis section be updated to reflect current information.

The requirement states “For a change that deviates from the existing baseline configuration associated with baseline items in Parts 1.1.1, 1.1.2, and 1.1.5...,” indicating the authenticity and integrity of the specified parts must be verified each time a baseline changes for those parts. The proposed requirement would possibly involve entities duplicating effort for every case for which such verification had to occur (e.g., in the cases of multiple installations of software across many applicable Cyber Assets). This requirement does not seem consistent with the intent of the protection and could present an undue compliance burden without providing the intended protection. We believe the existing statement in the GTB provides clarity on this issue and request it not be removed. From the GTB: “It is not the intent of the SDT to require a verification of each source or software update at the time it is obtained. It is sufficient to establish the reliable source and software update once. This will allow automated solutions to be implemented to obtain frequent updates such as patches.”

o AE also recommends rewording the language of the requirement be re-worded to reflect the intent of the GTB, as an auditor audits to the requirement, not the GTB. Doing a verification of authenticity and integrity for each change to the baseline for the specified parts would be tedious and require entities to acquire additional resources to perform the work.

o There is no guidance on how to verify the identity (authenticity). Performing this verification could be difficult if the software/patch comes from a third party tool. Guidance on how this can be done needs to be made available in order to perform an evaluation of the work and resources involved to achieve this requirement. Hashing was given as an example during an industry webinar, but this is not realistic for each type of system.

o Additional examples of acceptable measures should be listed. Additionally, AE requests examples of acceptable evidence when there is no method available to verify the identity of the software source.

While AE supports these changes, clarification is required about how R1.6 applies to entirely new BES Cyber Systems (BCS), i.e., BCS newly implemented and which have no previous baseline, and thus do not have an existing baseline from which a change can occur. We expect R1.6 is intended to apply to new BCS as well as to existing BCS but, as written, the requirement does not. Please clarify to avoid implementation confusion and audit challenges.

Likes 0

Dislikes 0

Response

Ginette Lacasse - Seattle City Light - 1,3,4,5,6 - WECC, Group Name Seattle City Light Ballot Body

Answer

Yes

Document Name

2016-03_Unofficial_Comment_Form_SCL_2017-6-14 Final to NERC.docx

Comment

See attached comments

Likes 0

Dislikes 0

Response

Normande Bouffard - Hydro-Qu?bec Production - 5

Answer

Yes

Document Name

Comment

Request to defined the scope of the requirements "for new contracts only"

With no defined scope, if the standard become effective in same time of the standard CIP-013-1, no terms will existed between entities and vendor for effective contracts. How the entities will be conformed to requirements ?

The proposed requirement would possibly involve entities duplicating effort for every case for which such verification had to be undertaken (i.e. the cases of multiple installations of a given piece of software across many similar applicable Cyber Assets). This does not seem consistent with the intent of the protection and could present an undue compliance burden without providing the intended protection.

VSL does not cover the failure to implement the process. Does not include all of the combinations.

Concerns with 1.6.1 and 1.6.2 as written --- how to provide evidence? Request more examples of evidence.

Likes 0

Dislikes 0

Response

Lona Calderon - Salt River Project - 1,3,5,6 - WECC

Answer

Yes

Document Name

Comment

SRP agrees this requirement belongs in CIP-010 R1. SRP generally agrees with Proposed R1 Part 1.6, but request the following items be addressed by the SDT:

- SRP recommends the Guidelines and Technical Basis section is updated to reflect current information.
 - The requirement states “For a change that deviates from the existing baseline configuration associated with baseline items in Parts 1.1.1, 1.1.2, and 1.1.5...,” indicating the authenticity and integrity of the specified parts need to be verified each time there is a change to a baseline for those parts. The proposed requirement would possibly involve entities duplicating effort for every case for which such verification had to be undertaken (i.e., in the cases of multiple installations of software across many applicable Cyber Assets). This does not seem consistent with the intent of the protection and could present an undue compliance burden without providing the intended protection. We believe that the existing statement in the GTB provides clarity on this issue and request that it not be removed. From the GTB: “It is not the intent of the SDT to require a verification of each source or software update at the time it is obtained. It is sufficient to establish the reliable source and software update once. This will allow automated solutions to be implemented to obtain frequent updates such as patches.”
 - SRP also recommends the language of the requirement be re-worded to reflect the intent of the GTB, as an auditor audits to the requirement, not the GTB. Doing a verification of authenticity and integrity for each change to the baseline for the specified parts would be tedious and require entities to acquire additional resources to perform the work.
- There is no guidance on how to verify the identity (authenticity). Performing this verification could be difficult if the software/patch comes from a third party tool. Guidance on how this can be done needs to be made available to entities in order to perform an evaluation of the work and resources involved to achieve this requirement. Hashing was given as an example during an industry webinar, but this is not realistic for each type of system.
- Additional examples of acceptable measures should to be listed. Additionally, SRP requests examples of acceptable evidence when there is not a method available to verify the identity of the software source.
- While SRP supports these changes, clarification is required about how new R1.6 applies to entirely new BES Cyber Systems (BCS), i.e., BCS that are newly implemented, have not previously had a baseline, and thus do not have an existing baseline for a change to deviate from. We

expect that R1.6 is intended to apply to new BCS as well as to existing BCS, but as written the requirement does not. Please clarify to avoid implementation confusion and audit challenges.

Likes 0

Dislikes 0

Response

Alan Farmer - ACEC - NA - Not Applicable - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF

Answer

Yes

Document Name

Comment

No Comments

Likes 0

Dislikes 0

Response

Barry Lawson - National Rural Electric Cooperative Association - 4

Answer

Yes

Document Name

Comment

NRECA supports the revisions to CIP-010-2. However, in the GTB the SDT should clarify the meaning of this sentence: "For example, in the System and Information Integrity (SI) control family, control SI-7 suggests that the integrity of information systems and obtaining software directly from the developer." This sentence seems to be incomplete and further words are needed to complete it.

Likes 0

Dislikes 0

Response

Nicholas Lauriat - Network and Security Technologies - 1

Answer

Yes

Document Name

Comment

N&ST believes the “if you can, you must” qualifying language in this proposed requirement part should be added to at least some parts of CIP-013 R1 and R2.

Likes 0

Dislikes 0

Response

David Rivera - New York Power Authority - 3

Answer

Yes

Document Name

Comment

NYPA supports the comments submitted by Salt River Project (WECC) and NPCC.

Likes 0

Dislikes 0

Response

Russel Mountjoy - Midwest Reliability Organization - 10, Group Name MRO NSRF

Answer

Yes

Document Name

Comment

The NSRF has the same comment from CIP-013-1 R1: CIP-010-3 R1.6 is troublesome as well. Entities typically use update or proxy servers to discover and identify applicable security patches. For example, we use Windows Update Server Services to identify patches and roll them out once testing and approvals are complete. Do we need to check the check sums of the identified patches or can we trust that the update servers are authenticating the software?

Likes 0

Dislikes 0

Response

Brian Evans-Mongeon - Utility Services, Inc. - 4

Answer

Yes

Document Name

Comment

The proposed requirement would possibly involve entities duplicating effort for every case for which such verification had to be undertaken (i.e., in the cases of multiple installations of software across many applicable Cyber Assets). This does not seem consistent with the intent of the protection and could present an undue compliance burden without providing the intended protection. We believe that the existing statement in the GTB provides clarity on this issue and request that it not be removed. From the GTB: "It is not the intent of the SDT to require a verification of each source or software update at the time it is obtained. It is sufficient to establish the reliable source and software update once. This will allow automated solutions to be implemented to obtain frequent updates such as patches."

USI has concerns with R 1.6.1 and 1.6.2 as written about how to provide evidence? Therefore, we believe more examples of evidence should be provided.

While we support these changes, clarification is required about how new R1.6 applies to entirely new BES Cyber Systems (BCS), i.e., BCS that are newly implemented, have not previously had a baseline, and thus do not have an existing baseline for a change to deviate from. We expect that R1.6 is intended to apply to new BCS as well as to existing BCS, but as written the requirement does not. Please clarify to avoid implementation confusion and audit challenges.

| | | |
|----------|---|---------------------------------|
| Likes | 1 | Chris Gowder, N/A, Gowder Chris |
| Dislikes | 0 | |

Response**Guy Andrews - Georgia System Operations Corporation - 4**

| | |
|---------------|-----|
| Answer | Yes |
| Document Name | |

Comment

GSOC supports NRECA's Comments of:

NRECA supports the revisions to CIP-010-2. However, in the GTB the SDT should clarify the meaning of this sentence: "For example, in the System and Information Integrity (SI) control family, control SI-7 suggests that the integrity of information systems and obtaining software directly from the developer." This sentence seems to be incomplete and further words are needed to complete it.

| | | |
|----------|---|--|
| Likes | 0 | |
| Dislikes | 0 | |

Response**Laura Nelson - IDACORP - Idaho Power Company - 1**

| | |
|---------------|-----|
| Answer | Yes |
| Document Name | |

Comment

R1.6 brings to mind several challenges. The intent appears to be to ensure that software is validated, which is not the issue. The issue is the auditability of the requirement and its existing language. The wording “when the method to do so is available” puts additional obligations on the Responsible Entity to prove whether the methods were available or not, when the methods were available, if it was appropriate to utilize the available methods in a given circumstance. It adds additional nuance when the methods are often obtained from third parties. If it is a legacy contract and has not been updated and the method is available to other entities but not to the Responsible Entity due to the legacy contract, is the method considered available? The intent of this requirement is good but the auditability of the language is challenging at best and should be adjusted to consider how entities will be able to document and comply with the requirement language.

Likes 0

Dislikes 0

Response

Heather Morgan - EDP Renewables North America LLC - 5

Answer Yes

Document Name

Comment

- Please provide clarification to what, “verification of identity of the software source and integrity of the software” means. Please provide more examples within the Measures to ensure entities are prepared for compliance oversight expectations.

Likes 0

Dislikes 0

Response

David Gordon - Massachusetts Municipal Wholesale Electric Company - 5

Answer Yes

Document Name

Comment

MMWEC supports comments submitted by APPA.

Likes 0

Dislikes 0

Response

Shannon Mickens - Southwest Power Pool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group

Answer Yes

| | |
|---|-----|
| Document Name | |
| Comment | |
| SPP recommends that the drafting team provide examples to provide clarity on control design to meet the intent of the standard. | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| Kara White - NRG - NRG Energy, Inc. - 3,4,5,6 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF | |
| Answer | Yes |
| Document Name | |
| Comment | |
| NRG recommends that the drafting team provide examples to provide clarity on control design to meet the intent of the standard. | |
| <p>The proposed requirement would possibly involve entities duplicating effort for every case for which such verification had to be undertaken (i.e. the cases of multiple installations of a given piece of software across many similar applicable Cyber Assets). This does not seem consistent with the intent of the protection and could present an undue compliance burden without providing the intended protection. NRG requests guidance on using trusted internal repositories as a software source so that Entity can verify once and use many</p> | |
| The VSL as currently written may not cover the failure to implement the process. The VSL may not include all of the combinations. | |
| NRG has concerns with Parts: 1.6.1 and 1.6.2 as written --- For example, how would a Registered Entity be expected to provide evidence? NRG request additional examples of evidence in the Measures section of the requirement. | |
| NRG suggests rephrasing “when the method to do so is available to the Responsible Entity from the software source” to “when the vendor supplied method to do so is available to Responsible Entity”. Otherwise the “method to do so” may be ambiguous and leaving the following questions: | |
| How does one prove that a method is not available? | |
| What is the line between available/unavailable? How far do you have to go? | |
| NRG is concerned with double jeopardy potential with CIP-007 R2. NRG is concerned that it may be difficult or impossible to validate the source or verify authenticity of the patch itself which may cause the industry to not consider that patch to be available. | |

Likes 0

Dislikes 0

Response

Allie Gavin - Allie Gavin On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin

Answer

Yes

Document Name

Comment

ITC Holdings believes the wording of CIP-010-3 leaves a lot of room for interpretation and needs to be more prescriptive. The measures should define technical examples (e.g., denote MD5 fingerprint or hashing as being an acceptable method). Additionally, ITC recommends including Remedy in the Technical Guidance document if you can't use the file integrity method.

Likes 0

Dislikes 0

Response

LeRoy Patterson - Public Utility District No. 2 of Grant County, Washington - 6

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Aaron Cavanaugh - Bonneville Power Administration - 1,3,5,6 - WECC

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Sergio Banuelos - Tri-State G and T Association, Inc. - 1,3,5 - MRO,WECC

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Glen Farmer - Avista - Avista Corporation - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Venona Greaff - Oxy - Occidental Chemical - 7, Group Name Oxy

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Bradley Calbick - Bradley Calbick On Behalf of: Bryan Cox, Avista - Avista Corporation, 3, 1, 5; - Bradley Calbick

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Randy Buswell - VELCO -Vermont Electric Power Company, Inc. - 1

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Bill Watson - Old Dominion Electric Coop. - 3

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Brian Millard - Tennessee Valley Authority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Sandra Pacheco - Silicon Valley Power - City of Santa Clara - 3,5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Val Ridad - Silicon Valley Power - City of Santa Clara - 3,5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Sean Bodkin - Dominion - Dominion Resources, Inc. - 6, Group Name Dominion

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Aaron Ghodooshim - FirstEnergy - FirstEnergy Corporation - 1,3,4,5,6 - RF, Group Name FirstEnergy Corporation

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Harold Sherrill - Harold Sherrill On Behalf of: Martine Blair, Sempra - San Diego Gas and Electric, 5, 3, 1; - Harold Sherrill

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Lauren Price - American Transmission Company, LLC - 1

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Julie Hall - Entergy - 6, Group Name Entergy/NERC Compliance

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Alex Ybarra - Public Utility District No. 2 of Grant County, Washington - 5

| | |
|---|-----|
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| Wendy Center - U.S. Bureau of Reclamation - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| Andrey Komissarov - Andrey Komissarov On Behalf of: Jerome Gobby, Sempra - San Diego Gas and Electric, 5, 3, 1; - Andrey Komissarov | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| Andrew Meyers - Bonneville Power Administration - 6 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes | 0 |

Dislikes 0

Response

John Williams - Tallahassee Electric (City of Tallahassee, FL) - 3

Answer Yes

Document Name

Comment

Likes 1

Tallahassee Electric (City of Tallahassee, FL), 1, Langston Scott

Dislikes 0

Response

Melanie Seader - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Chris Scanlon - Exelon - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Rachel Coyne - Texas Reliability Entity, Inc. - 10

Answer

Document Name

Comment

Texas RE notes that the proposed standard is not responsive to the FERC directive. FERC Order No. 829 P. 59 specifically states “The new or modified Reliability Standard must address the provision and verification of relevant security concepts *in future contracts* for industrial control system hardware, software, and computing and networking services associated with bulk electric system operations.” The Note in Part 1.6, however, states: “Additionally, the following issues are beyond the scope of Part 1.6: (1) the actual *terms and conditions of a procurement contract*; and (2) vendor performance and adherence to a contract.” Texas RE agrees that it is unreasonable to hold a registered entity accountable for a vendor’s adherence to (or lack of adherence to) a contract. Texas RE agrees as the SDT claims obtaining specific controls in the negotiated contract may not be feasible at all times but Texas RE believes this is *best practice*. In fact, in most cases contracts for these types of systems typically include security provisions and set similar expectations as described in the standard. The proposed standards would prohibit the compliance monitor from verifying the registered entity implemented part 1.6. Moreover, this verification is to ensure that the registered entities’ plans are consistent with the contract’s expectations and obligations of the parties.

Admittedly, there will be circumstances in which a contracts may not be consistent or silent as it pertains to the responsible entity’s security management plans (e.g. existing contacts or contracts in which the responsible entity was unable to negotiate the appropriate terms into the contract.) In those circumstances, other evidence should be provided demonstrating that the responsible entity has processes to ensure the vendor is expected/obligated to act consistent with the responsible entity’s cyber security risk management plans as it relates to the vendor’s products or services. Therefore, the contracts should remain in scope as to demonstrate the mapping of expectations from the plan to the contract as far as vendor interactions for those specific items included in the standard and to advance best practices leading to a more reliable BES.

Texas RE also recommends the SDT remove or provide clarity on the verbiage that reads, “*and when the method to do so is available to the Responsible Entity from the software source*”. A potential scenario exists now where vendors will attest that identity and integrity methods are not available therefore Part 1.6 is not applicable.

Texas RE notes that the words “integrity” and “authenticity” are used in the Guidelines and Technical Basis however Part 1.6 uses the words “identity” and “integrity”. Are these intended to be the same?

Likes 0

Dislikes 0

Response

Scott Miller - Scott Miller On Behalf of: David Weekley, MEAG Power, 3, 5, 1; Roger Brand, MEAG Power, 3, 5, 1; Steven Grego, MEAG Power, 3, 5, 1; - Scott Miller, Group Name MEAG Power

Answer

Document Name

Comment

MEAG supports the answers and comments of Salt River Project.

Likes 0

Dislikes 0

Response

4. The SDT removed low-impact BES Cyber Systems from the applicability in CIP-013-1 and is not proposing any new requirements for these cyber systems. The SDT believes that the proposed applicability to high and medium impact BES Cyber Systems appropriately focuses industry resources on supply chain cyber security risk management for industrial control system hardware, software, and computing and networking services associated with BES operations, as specified in Order No. 829. Do you agree with the SDT's removal of low impact BES Cyber Systems from CIP-013-1? If you do not agree, or if you agree but have comments or suggestions, please provide your recommendation and explanation.

Richard Vine - California ISO - 2

Answer No

Document Name

Comment

The ISO supports the comments of the Security Working Group (SWG)

Likes 0

Dislikes 0

Response

Elizabeth Axson - Electric Reliability Council of Texas, Inc. - 2

Answer No

Document Name

Comment

ERCOT joins the comments of the IRC.

Likes 0

Dislikes 0

Response

William Harris - Foundation for Resilient Societies - 8

Answer No

Document Name Resilient Societies Comments - NERC Cyber Supply Chain Risk Management 2016-03.docx

Comment

Malware inserted into the U.S. electric grid in year 2014 and into the electric grid and other assets in the Ukraine in December 2015 and December 2016 target nominally "low impact" assets producing high impact consequences. See integrated comments that address in part the need to upgrade protections for so-called "low impact" facilities.

Likes 0

Dislikes 0

Response

David Francis - SRC - 1,2 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF, Group Name SRC + SWG

Answer No

Document Name

Comment

While the IRC members do not have Low Impact Bes Cyber Systems we have multiple interfaces with our Market Participants that do have Low Impact BES Cyber Systems. This, in turn represents, risk to our BES Cyber Systems. As such we recommend that CIP-013-1 apply to Low Impact BES Cyber Systems to reduce the supply chain risk not only to the Low Impact BES Cyber Systems but to the IRC member organization's BES Cyber Systems.

Note: **PJM does not support this comment.**

Likes 0

Dislikes 0

Response

Steven Rueckert - Western Electricity Coordinating Council - 10

Answer No

Document Name

Comment

While the initial direction of CIP-013-1 is good and provides protection for High BCS and Medium BCS, similar Cyber Assets associated with Low impact BES Cyber Systems may represent vectors for attack to High BCS or Medium BCS if left unprotected. WECC understands the reluctance of industry to incorporate Low impact BCS and their component BCA and other Cyber Assets under the CIP-013-1 purview and supports remanding SCRM issues associated with Low impact BCS to the CIP-003 Standard Drafting Team for integration into R1.2 and R2 of that Standard to ensure SCRM is integrated into those BCS at a level commensurate with the risk posed to the reliability of the BES.

Likes 0

Dislikes 0

Response

Franklin Lu - Snohomish County PUD No. 1 - 6

Answer Yes

| | |
|--|-----|
| Document Name | |
| Comment | |
| Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Sam Nietfeld - Public Utility District No. 1 of Snohomish County - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Mark Oens - Snohomish County PUD No. 1 - 3 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Long Duong - Public Utility District No. 1 of Snohomish County - 1 | |
| Answer | Yes |

| | |
|--|-----|
| Document Name | |
| Comment | |
| Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| John Martinsen - Public Utility District No. 1 of Snohomish County - 4 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Teresa Cantwell - Lower Colorado River Authority - 1 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| No comment. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Venona Greaff - Oxy - Occidental Chemical - 7, Group Name Oxy | |
| Answer | Yes |
| Document Name | |

Comment

Oxy agrees with the removal of low impact BCS from CIP-013-1 and agrees that the current standard as written appropriately addresses the Commission’s concerns as specified in Order No. 829. Oxy believes that for entities that have a mixture of high, medium and low impact assets, the low impact assets would inherently benefit from the requirements applicable to high and medium impact assets as a matter of normal business practice, as the high water mark will be applied when purchasing equipment and services. This will account for a large portion of low impact BES Cyber Systems. Oxy believes it is appropriate to address the supply chain requirements using this risk-based approach. Low impact BES Cyber Systems are categorized as low impact because they inherently pose a low risk to negatively impact the Bulk Electric System. Resources should focus on those systems that have the potential for significant adverse impact on the BES. Additionally, vendors will not differentiate their product as low, medium or high impact, so as vendors address the requirements of high and medium impact entities, low impact entities will acquire the same products and services as medium and high impact entities. If low impact BES Cyber Systems were included in CIP-013-1, the costs associated with compliance would far outweigh the risk posed to the BES, in both manpower and additional equipment and services.

Likes 0

Dislikes 0

Response

Brandon Cain - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - SERC, Group Name Southern Company

Answer Yes

Document Name

Comment

No additional comments.

Likes 0

Dislikes 0

Response

Jason Snodgrass - Georgia Transmission Corporation - 1

Answer Yes

Document Name

Comment

GTC supports NRECA comments:

NRECA appreciates the SDT’s efforts to develop the supply chain requirements under a risk-based lens.

Likes 0

Dislikes 0

Response

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion

Answer Yes

Document Name

Comment

None

Likes 1 Chantal Mazza, N/A, Mazza Chantal

Dislikes 0

Response

Warren Cross - ACES Power Marketing - 1,3,4,5 - WECC,Texas RE,SERC,SPP RE,RF, Group Name ACES Standards Collaborators

Answer Yes

Document Name

Comment

Yes. Industry supply chain management advances that would impact low impact BES Cyber Systems would be addressed by vendors through the requirements for high and medium impact BES Cyber Systems.

Likes 0

Dislikes 0

Response

Timothy Reyher - Eversource Energy - 5

Answer Yes

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 Yes

Document Name

Comment

Duke Energy agrees with the removal of low-impact BES Cyber Systems from the applicability of CIP-013-1. Low-impact BES Cyber Systems have been subject to a risk assessment and classified low-impact since they pose a minimal threat to the BES. Also, a Responsible Entity is not required to have an inventory list of its low-impact BES Cyber Systems. If this standard were to apply to low-impact BES Cyber Systems, this would likely create a situation wherein an inventory list is necessary. This would be a significant effort, which would not likely bolster the reliability of the grid, based on the limited impact lows present to the system.

Likes 0

Dislikes 0

Response

Michael Brytowski - Michael Brytowski On Behalf of: Donna Stephenson, Great River Energy, 5, 3, 1, 6; - Michael Brytowski

Answer Yes

Document Name

Comment

GRE appreciates the SDT's efforts to develop the supply chain requirements under a risk-based lens.

Likes 0

Dislikes 0

Response

Linda Jacobson-Quinn - City of Farmington - 3

Answer Yes

Document Name

Comment

FEUS supports the comments submitted by APPA

Likes 0

Dislikes 0

Response

Brenda Hampton - Luminant - Luminant Energy - 6, Group Name Luminant

Answer Yes

Document Name

Comment

Luminant believes it is appropriate to address the supply chain requirements using a risk-based approach. Low impact Cyber Systems are categorized as low impact because they inherently have a low ability to negatively impact the Bulk Electric System. We should focus our resources on those systems that have the potential for significant adverse impact on the BES. In addition, there are many types of low impact Cyber Systems. If a decision was made to put them back into the standard, there would need to be extensive work on evaluating each of these types of systems in order to determine whether there is adequate benefit to reliability to offset the cost and burden of imposing supply chain requirements for these systems.

Likes 0

Dislikes 0

Response

Kara White - NRG - NRG Energy, Inc. - 3,4,5,6 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF

Answer Yes

Document Name

Comment

None

Likes 0

Dislikes 0

Response

Laura Nelson - IDACORP - Idaho Power Company - 1

Answer Yes

Document Name

Comment

IPC agrees that the applicability to Lows should be removed.

Likes 0

Dislikes 0

Response

Guy Andrews - Georgia System Operations Corporation - 4

Answer Yes

Document Name

Comment

GSOC supports NRECA's Comments of:

NRECA appreciates the SDT's efforts to develop the supply chain requirements under a risk-based lens.

Likes 0

Dislikes 0

Response

Brian Evans-Mongeon - Utility Services, Inc. - 4

Answer Yes

Document Name

Comment

USI agrees with the removal of low-impact BES Cyber Systems from CIP-013-1 and agree that the current standard as written appropriately addresses the Commission's concerns as specified in Order No. 829.

Likes 1

Chris Gowder, N/A, Gowder Chris

Dislikes 0

Response

Don Schmit - Nebraska Public Power District - 5

Answer Yes

Document Name

Comment

NPPD supports the position of the MRO NSRF.

Likes 0

Dislikes 0

Response

David Rivera - New York Power Authority - 3

Answer Yes

Document Name

Comment

NYPA supports the comments submitted by Salt River Project (WECC) and NPCC.

Likes 0

Dislikes 0

Response

Barry Lawson - National Rural Electric Cooperative Association - 4

Answer Yes

Document Name

Comment

NRECA appreciates the SDT's efforts to develop the supply chain requirements under a risk-based lens.

Likes 0

Dislikes 0

Response

Alan Farmer - ACEC - NA - Not Applicable - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF

Answer Yes

Document Name

Comment

No Comments

Likes 0

Dislikes 0

Response

Lona Calderon - Salt River Project - 1,3,5,6 - WECC

| | |
|--|--|
| Answer | Yes |
| Document Name | |
| Comment | |
| <p>SRP agrees with the removal of low impact BCS from CIP-013-1 and agrees that the current standard as written appropriately addresses the Commission's concerns as specified in Order No. 829. SRP believes that for entities that have a mixture of high, medium and low assets, the low assets would inherently benefit from the additional requirements of medium and low requirements as a matter of normal business practices. Additionally, many Contracts and Master Agreements are developed for all products and services purchased from a vendor. For Entities that have low assets only, there would not be additional requirements based on CIP-002 risk based approach.</p> <p>SRP believes that including lows will require substantial resources by each Responsible Entity to identify and maintain an inventory list of these items. Also, controls inherent to CIP-013 and previous CIP Standards that reduce the risk associated with lows.</p> | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| | |
| Normande Bouffard - Hydro-Quebec Production - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| No comments | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| | |
| Ginette Lacasse - Seattle City Light - 1,3,4,5,6 - WECC, Group Name Seattle City Light Ballot Body | |
| Answer | Yes |
| Document Name | 2016-03_Unofficial_Comment_Form_SCL_2017-6-14 Final to NERC.docx |
| Comment | |
| See Attached Comments. | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |

Patricia Robertson - BC Hydro and Power Authority - 1, Group Name BC Hydro

Answer Yes

Document Name

Comment

BC Hydro believes that focussing on Medium and High Impact BCS instead of Low Impact is a good place to start. If insufficient risk mitigation is found to be provided here, it can always be expanded later. However, BC Hydro does not believe CIP-013-1 itself is necessary given what entities will already be doing under the other CIP v5 standards

Likes 0

Dislikes 0

Response

Andrew Gallo - Austin Energy - 6

Answer Yes

Document Name

Comment

AE agrees with removing low-impact BCS from CIP-013-1 and agrees the current standard, as written, appropriately addresses the Commission's concerns as specified in Order No. 829. AE believes, for entities with a mixture of High, Medium and Low Impact BCS, the Low Impact B CA would inherently benefit from the additional requirements of Medium and Low requirements as a matter of normal business practices. Additionally, many contracts and master agreements are developed for all products and services purchased from a vendor. For entities with Low Impact BCS only, there would not be additional requirements based on the CIP-002 risk-based approach.

AE believes including Low Impact BCS will require substantial resources by each Responsible Entity to identify and maintain an inventory list of these devices. Also, controls inherent to CIP-013 and previous CIP Standards reduce the risk associated with Low Impact BCS.

Likes 0

Dislikes 0

Response

Joe Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Jamie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of Northern California, 1; Lori Folkman, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; - Joe Tarantino

Answer Yes

Document Name

Comment

SMUD agrees with the removal of low-impact BES Cyber Systems from CIP-013-1 and agrees that the current standard as written appropriately addresses the Commission's concerns as specified in Order No. 829. SMUD believes that for entities that have a mixture of High, Medium and Low assets, the Low assets would inherently benefit from the additional requirements of Medium and Low requirements as a matter of normal business practices. Additionally, many Contracts and Master Agreements are developed for all products and services purchased from a vendor. For Entities that have Low assets only, there would not be additional requirements based on CIP-002 risk based approach.

SMUD believes that including Lows will require substantial resources by each Responsible Entity to identify and maintain an inventory list of these items. Also, controls inherent to CIP-013 and previous CIP Standards that reduce the risk associated with Lows.

Likes 0

Dislikes 0

Response

Tyson Archie - Platte River Power Authority - 5

Answer

Yes

Document Name

Comment

PRPA agrees with the removal of low-impact BES Cyber Systems from CIP-013-1 and agrees that the current standard as written appropriately addresses the Commission's concerns as specified in Order No. 829. PRPA believes that for entities that have a mixture of High, Medium and Low assets, the Low assets would inherently benefit from the additional requirements of Medium and Low requirements as a matter of normal business practices. Additionally, many Contracts and Master Agreements are developed for all products and services purchased from a vendor. For Entities that have Low assets only, there would not be additional requirements based on CIP-002 risk based approach.

PRPA believes that including Lows will require substantial resources by each Responsible Entity to identify and maintain an inventory list of these items. Also, controls inherent to CIP-013 and previous CIP Standards that reduce the risk associated with Lows.

Likes 0

Dislikes 0

Response

Steven Sconce - EDF Renewable Energy - 5

Answer

Yes

Document Name

Comment

No comment.

Likes 0

Dislikes 0

Response

Shawn Abrams - Santee Cooper - 1

Answer Yes

Document Name

Comment

Santee Cooper agrees with the removal of low-impact BES Cyber Systems from CIP-013-1. Including low-impact BES Cyber Systems will require substantial resources by a Responsible Entity it identify and maintain an inventory list of items.

Likes 0

Dislikes 0

Response

Daniel Grinkevich - Con Ed - Consolidated Edison Co. of New York - 1

Answer Yes

Document Name

Comment

None.

Likes 0

Dislikes 0

Response

Jeff Icke - Colorado Springs Utilities - 5

Answer Yes

Document Name

Comment

Colorado Springs Utilities supports the comments provided by APPA

Likes 0

Dislikes 0

Response

Mick Neshem - Public Utility District No. 1 of Chelan County - 3

Answer

Yes

Document Name

Comment

CHPD supports these changes.

Likes 0

Dislikes 0

Response

Chad Bowman - Public Utility District No. 1 of Chelan County - 1

Answer

Yes

Document Name

Comment

CHPD supports these changes.

Likes 0

Dislikes 0

Response

Haley Sousa - Public Utility District No. 1 of Chelan County - 5

Answer

Yes

Document Name

Comment

CHPD supports these changes.

Likes 0

Dislikes 0

Response

Janis Weddle - Public Utility District No. 1 of Chelan County - 6

Answer Yes

Document Name

Comment

CHPD supports these changes.

Likes 0

Dislikes 0

Response

Bob Thomas - Illinois Municipal Electric Agency - 4

Answer Yes

Document Name

Comment

Illinois Municipal Electric Agency supports comments submitted by the American Public Power Association.

Likes 0

Dislikes 0

Response

Bradley Calbick - Bradley Calbick On Behalf of: Bryan Cox, Avista - Avista Corporation, 3, 1, 5; - Bradley Calbick

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Glen Farmer - Avista - Avista Corporation - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Rhonda Bryant - El Paso Electric Company - 3

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Pablo Onate - El Paso Electric Company - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Victor Garzon - El Paso Electric Company - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Sergio Banuelos - Tri-State G and T Association, Inc. - 1,3,5 - MRO,WECC

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Mark Riley - Associated Electric Cooperative, Inc. - 1, Group Name AECl & Member G&Ts

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

David Ramkalawan - Ontario Power Generation Inc. - 5

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Wesley Maurer - Lower Colorado River Authority - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Stephanie Little - Stephanie Little

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Quintin Lee - Eversource Energy - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Jesus Sammy Alcaraz - Imperial Irrigation District - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Aaron Cavanaugh - Bonneville Power Administration - 1,3,5,6 - WECC

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

LeRoy Patterson - Public Utility District No. 2 of Grant County, Washington - 6

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Allie Gavin - Allie Gavin On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Shannon Mickens - Southwest Power Pool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group

| | |
|---|-----|
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| David Gordon - Massachusetts Municipal Wholesale Electric Company - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| Heather Morgan - EDP Renewables North America LLC - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| Chris Scanlon - Exelon - 1 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes | 0 |

Dislikes 0

Response

Russel Mountjoy - Midwest Reliability Organization - 10, Group Name MRO NSRF

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Melanie Seader - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Nicholas Lauriat - Network and Security Technologies - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

John Williams - Tallahassee Electric (City of Tallahassee, FL) - 3

Answer Yes

| | |
|--|---|
| Document Name | |
| Comment | |
| Likes 1 | Tallahassee Electric (City of Tallahassee, FL), 1, Langston Scott |
| Dislikes 0 | |
| Response | |
| | |
| Andrew Meyers - Bonneville Power Administration - 6 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Andrey Komissarov - Andrey Komissarov On Behalf of: Jerome Gobby, Sempra - San Diego Gas and Electric, 5, 3, 1; - Andrey Komissarov | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Tho Tran - Oncor Electric Delivery - 1 - Texas RE | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes 0 | |
| Dislikes 0 | |

Response

Wendy Center - U.S. Bureau of Reclamation - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Alex Ybarra - Public Utility District No. 2 of Grant County, Washington - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Julie Hall - Entergy - 6, Group Name Entergy/NERC Compliance

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Richard Kinias - Orlando Utilities Commission - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response**Lauren Price - American Transmission Company, LLC - 1****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response**Harold Sherrill - Harold Sherrill On Behalf of: Martine Blair, Sempra - San Diego Gas and Electric, 5, 3, 1; - Harold Sherrill****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response**Amelia Sawyer - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response

Allan Long - Memphis Light, Gas and Water Division - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Michael Haff - Seminole Electric Cooperative, Inc. - 1,3,4,5,6 - FRCC

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Thomas Foltz - AEP - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Aaron Ghodooshim - FirstEnergy - FirstEnergy Corporation - 1,3,4,5,6 - RF, Group Name FirstEnergy Corporation

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Sean Bodkin - Dominion - Dominion Resources, Inc. - 6, Group Name Dominion

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Shelby Wade - PPL - Louisville Gas and Electric Co. - 1,3,5,6 - SERC,RF, Group Name PPL NERC Registered Affiliates

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Val Ridad - Silicon Valley Power - City of Santa Clara - 3,5

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Sandra Pacheco - Silicon Valley Power - City of Santa Clara - 3,5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Brian Millard - Tennessee Valley Authority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Bill Watson - Old Dominion Electric Coop. - 3

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Randy Buswell - VELCO -Vermont Electric Power Company, Inc. - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Rachel Coyne - Texas Reliability Entity, Inc. - 10

Answer

Document Name

Comment

Texas RE's opinion is that low impact BES Cyber Systems should be included in CIP-013-1 because industrial control systems monitor and operate BES Cyber Assets located at transmission substations, wind farms, and generation facilities.

Texas RE noticed that Question 4 uses the words "hardware, computing and networking services", which are not found in CIP-013-1. Should they be used in CIP-013-1 instead of "equipment, products, and services"?

Likes 0

Dislikes 0

Response

Michael Shaw - Lower Colorado River Authority - 6, Group Name LCRA Compliance

Answer

Document Name

Comment

No comment

Likes 0

Dislikes 0

Response

Mark Holman - PJM Interconnection, L.L.C. - 2

Answer

Document Name

Comment

PJM chooses to abstain from this question as we have no low impact assets.

Likes 0

Dislikes 0

Response

Scott Miller - Scott Miller On Behalf of: David Weekley, MEAG Power, 3, 5, 1; Roger Brand, MEAG Power, 3, 5, 1; Steven Grego, MEAG Power, 3, 5, 1; - Scott Miller, Group Name MEAG Power

Answer

Document Name

Comment

MEAG supports the answers and comments of Salt River Project.

Likes 0

Dislikes 0

Response

5. The SDT revised the Implementation Plan in response to stakeholder comments. Do you agree with the Implementation Plan for the requirements in Project 2016-03? If you do not agree, or if you agree but have comments or suggestions for the Implementation Plan, please provide your recommendation and explanation.

Gregory Campoli - New York Independent System Operator - 2

Answer No

Document Name

Comment

Request a 24 month implementation due to budget cycles and technical controls for other CIP Standards.

Likes 0

Dislikes 0

Response

Michael Shaw - Lower Colorado River Authority - 6, Group Name LCRA Compliance

Answer No

Document Name

Comment

Disagree with the Implementation Plan. Standard should have language stating whether or not software installed prior to enforcement must have identify/verification completed.

Likes 0

Dislikes 0

Response

Timothy Reyher - Eversource Energy - 5

Answer No

Document Name

Comment

Recommend changing this General Consideration from

Contracts entering the Responsible Entity's procurement process (e.g. through Request for Proposals) on or after the effective date are within scope of CIP-013-1. Contract effective date, commencement date, or other activation dates specified in the contract do not determine whether the contract is within scope of CIP-013-1.

To

Supply Chain Risk Management plan must be used by the procurement processes that begin on or after the implementation date. Make corresponding change to the CIP-013 R2 note

Implementation Plan does not handle unplanned changes such as IROLs or registration, etc.

Request a 24 months implementation due to budget cycles and technical controls for other CIP Standards

| | | |
|-------|---|--|
| Likes | 0 | |
|-------|---|--|

| | | |
|----------|---|--|
| Dislikes | 0 | |
|----------|---|--|

Response

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion

| | |
|---------------|----|
| Answer | No |
|---------------|----|

| | |
|----------------------|--|
| Document Name | |
|----------------------|--|

Comment

Recommend changing this General Consideration from

Contracts entering the Responsible Entity's procurement process (e.g. through Request for Proposals) on or after the effective date are within scope of CIP-013-1. Contract effective date, commencement date, or other activation dates specified in the contract do not determine whether the contract is within scope of CIP-013-1.

To

Supply Chain Risk Management plan must be used by the procurement processes that begin on or after the implementation date. Make corresponding change to the CIP-013 R2 note

Implementation Plan does not handle unplanned changes such as IROLs or registration, etc.

Request a 24 months implementation due to budget cycles and technical controls for other CIP Standards

| | | |
|-------|---|-----------------------------------|
| Likes | 1 | Chantal Mazza, N/A, Mazza Chantal |
|-------|---|-----------------------------------|

| | | |
|----------|---|--|
| Dislikes | 0 | |
|----------|---|--|

Response

William Harris - Foundation for Resilient Societies - 8

Answer No

Document Name

Comment

Performance requirements are too vague to be auditable. See related comments.

Likes 0

Dislikes 0

Response

Joe Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Jamie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of Northern California, 1; Lori Folkman, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; - Joe Tarantino

Answer No

Document Name

Comment

SMUD generally agrees with an 18-month implementation plan but, would prefer a 24-month implementation plan. SMUD feels that a 24-month timeframe is more appropriate and gives the entity additional time to align budgets and develop processes with vendors and suppliers.

SMUD is indicating a “no” response as the implementation plan does not include a pilot. The implementation of TCA CIP 010 R4 was difficult as entities did not have a model implementation to learn practical applications of the standard in operations. Other standards that had a pilot allowed entities to learn practical implementation decisions that would save money and time.

Please note, SMUD is willing to participate as a pilot participant.

Likes 0

Dislikes 0

Response

Wendy Center - U.S. Bureau of Reclamation - 5

Answer No

Document Name

Comment

It is uncertain when purchasing activities become subject to CIP-013-1. The proposed Implementation Plan states: "Contracts entering the Responsible Entity's procurement process (e.g. through Request for Proposals) on or after the effective date are within scope of CIP-013-1. Contract effective date, commencement date, or other activation dates specified in the contract do not determine whether the contract is within scope of CIP-013-1."

Reclamation recommends that the "General Considerations" guidance contained in the Implementation Plan pertaining to purchasing activities be included in the proposed standard.

If the "General Considerations" guidance on purchasing activities becomes part of the proposed standard, Reclamation further recommends:

- A contract becomes within scope when the entity commences its formal contract process such as when a request for proposal or solicitation is issued.
- Any direct purchase and/or any repurposed equipment is within scope prior to connecting to the Bulk Electric System as a cyber asset.

Likes 0

Dislikes 0

Response

Nicholas Lauriat - Network and Security Technologies - 1

Answer No

Document Name

Comment

CIP-013 R2 and/or the Implementation Plan should contain "trigger" language for R2 that clarifies an entity must implement its R1 risk management plan(s) for new procurement contracts signed on or after the Effective Date of CIP-013. Entities with no new procurement contracts or no new in-progress procurements on the Effective Date should not be expected to be able to demonstrate compliance with R2 at that time.

Likes 0

Dislikes 0

Response

David Gordon - Massachusetts Municipal Wholesale Electric Company - 5

Answer No

Document Name

Comment

MMWEC supports comments submitted by APPA.

Likes 0

Dislikes 0

Response

Jesus Sammy Alcaraz - Imperial Irrigation District - 1

Answer

Yes

Document Name

Comment

Implementation Plan does not handle unplanned changes such as IROLs or registration, etc. Request a 24-month implementation due to budget cycles and technical controls for other CIP Standards

Likes 0

Dislikes 0

Response

Quintin Lee - Eversource Energy - 1

Answer

Yes

Document Name

Comment

Request a 24 months implementation due to budget cycles and technical controls for other CIP Standards

Recommend changing this General Consideration from

Contracts entering the Responsible Entity's procurement process (e.g. through Request for Proposals) on or after the effective date are within scope of CIP-013-1. Contract effective date, commencement date, or other activation dates specified in the contract do not determine whether the contract is within scope of CIP-013-1.

To

Supply Chain Risk Management plan must be used by the procurement processes that begin on or after the implementation date. Make corresponding change to the CIP-013 R2 note

Implementation Plan does not handle unplanned changes such as IROLs or registration, etc.

Likes 0

Dislikes 0

Response

Linda Jacobson-Quinn - City of Farmington - 3

Answer

Yes

Document Name

Comment

FEUS supports the comments submitted by APPA

Likes 0

Dislikes 0

Response

Michael Brytowski - Michael Brytowski On Behalf of: Donna Stephenson, Great River Energy, 5, 3, 1, 6; - Michael Brytowski

Answer

Yes

Document Name

Comment

GRE and the NRECA supports the new implementation plan timeframe. However, this implementation plan unintentionally removes the provisions for additional time to implement unplanned changes in CIP-005 and CIP-010 that was provided in the V5 and V6 implementation plans. NRECA strongly requests that the language from the "Planned or Unplanned Changes Resulting in a Higher Categorization" section of the CIP V5 standards implementation plan be re-inserted into the supply chain implementation plan.

Additionally, the absence of the "Applicable Facilities" section or other language that clearly indicates these standards/requirements do not apply to "low" entities is missing in the Implementation Plan. NRECA urges the SDT to add this section the Implementation Plan.

Likes 0

Dislikes 0

Response

Warren Cross - ACES Power Marketing - 1,3,4,5 - WECC,Texas RE,SERC,SPP RE,RF, Group Name ACES Standards Collaborators

| | |
|--|-----|
| Answer | Yes |
| Document Name | |
| Comment | |
| <p>Yes. Moving the implementation date from 12 to 18 months is consistent with the CIP v5 implementation timeline for implementations. Would low impact BES Cyber Assets that might be in scope in the future have similar implementation timeline or longer?</p> | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| <p>Mark Riley - Associated Electric Cooperative, Inc. - 1, Group Name AECE & Member G&Ts</p> | |
| Answer | Yes |
| Document Name | |
| Comment | |
| <p>AECE supports NRECA's comments provided below:</p> <p>NRECA supports the new implementation plan timeframe. However, this implementation plan unintentionally removes the provisions for additional time to implement unplanned changes in CIP-005 and CIP-010 that was provided in the V5 and V6 implementation plans. NRECA strongly requests that the language from the "Planned or Unplanned Changes Resulting in a Higher Categorization" section of the CIP V5 standards implementation plan be re-inserted into the supply chain implementation plan.</p> <p>Additionally, the absence of the "Applicable Facilities" section or other language that clearly indicates these standards/requirements do not apply to "low" entities is missing in the Implementation Plan. NRECA urges the SDT to add this section the Implementation Plan.</p> | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| <p>Jason Snodgrass - Georgia Transmission Corporation - 1</p> | |
| Answer | Yes |
| Document Name | |
| Comment | |
| <p>GTC supports NRECA comments:</p> | |

NRECA supports the new implementation plan timeframe. However, this implementation plan unintentionally removes the provisions for additional time to implement unplanned changes in CIP-005 and CIP-010 that was provided in the V5 and V6 implementation plans. NRECA strongly requests that the language from the “Planned or Unplanned Changes Resulting in a Higher Categorization” section of the CIP V5 standards implementation plan be re-inserted into the supply chain implementation plan.

Additionally, the absence of the “Applicable Facilities” section or other language that clearly indicates these standards/requirements do not apply to “low” entities is missing in the Implementation Plan. NRECA urges the SDT to add this section the Implementation Plan.

Likes 0

Dislikes 0

Response

Brandon Cain - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - SERC, Group Name Southern Company

Answer

Yes

Document Name

Comment

Southern recommends that the SDT consider addressing previous issues with the Implementation Plan versions between CIP V5, V6, V7, etc., where Implementation Plans were “chained” together and there was not an Implementation Plan that contained all the necessary requirements in a single source. Southern strongly recommends producing a consolidated Implementation Plan.

Southern recommends that NERC and the SDT(s) consider addressing issues with the Implementation Plan versions between CIP V5, V6, V7, and Supply Chain, as Implementation Plans are “chained” together and there is no one Implementation Plan that contains all the necessary requirements in a single source. Implementation Plans for the CIP standards cover several important areas:

Implementation schedules of new or modified CIP standard requirements.

Implementation schedules for newly identified cyber assets brought into scope with current requirements based on planned or unplanned changes in the BES assets, or those from newly registered NERC entities. (previously known as IPFNICANRE – Implementation Plan for Newly Identified Cyber Assets or Newly Registered Entities)

Implementation schedules for BES Cyber Systems already in scope that change impact levels due to planned or unplanned changes in the BES.

As an example, the last page of the Implementation Plan for CIP-003-7 states that CIP-003-6 is retired upon approval of CIP-003-7, yet it chains to the CIP-003-6 Implementation Plan to tell entities how to handle cyber systems that change impact categorization. The CIP-003-6 implementation plan simply says it replaces *parts* of the V5 implementation plan for the modified standards in that revision. Only the V5 plan addresses the 2nd bullet point above. Responsible Entities are left to unravel three different plans with supply chain adding yet another to get one picture of what is due when and knowing how to handle BES changes that affect cyber system identification and impact categorization.

As we go forward, we need a better solution. Parts of an implementation plan, such as bullets 2 and 3 above, need to live on indefinitely. Other parts, such as the schedule of new or modified requirements, need to live until those dates have passed. Chaining all of this together through numerous documents as the CIP standards continue to evolve and grow to cover new areas is not a sustainable solution that promotes clarity in knowing the compliance obligation in a changing environment.

Likes 0

Dislikes 0

Response

Teresa Cantwell - Lower Colorado River Authority - 1

Answer Yes

Document Name

Comment

Disagree with the Implementation Plan. Standard should have language stating whether or not software installed prior to enforcement must have identify/verification completed.

Likes 0

Dislikes 0

Response

John Martinsen - Public Utility District No. 1 of Snohomish County - 4

Answer Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Long Duong - Public Utility District No. 1 of Snohomish County - 1

Answer Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Mark Oens - Snohomish County PUD No. 1 - 3

Answer Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Sam Nietfeld - Public Utility District No. 1 of Snohomish County - 5

Answer Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Franklin Lu - Snohomish County PUD No. 1 - 6

Answer Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Elizabeth Axson - Electric Reliability Council of Texas, Inc. - 2

Answer Yes

Document Name

Comment

ERCOT joins the comments of the IRC.

Likes 0

Dislikes 0

Response

Bob Thomas - Illinois Municipal Electric Agency - 4

Answer Yes

Document Name

Comment

Illinois Municipal Electric Agency supports comments submitted by the American Public Power Association.

Likes 0

Dislikes 0

Response

Janis Weddle - Public Utility District No. 1 of Chelan County - 6

Answer Yes

Document Name

Comment

CHPD supports these changes.

Likes 0

Dislikes 0

Response

Haley Sousa - Public Utility District No. 1 of Chelan County - 5

Answer Yes

Document Name

Comment

CHPD supports these changes.

Likes 0

Dislikes 0

Response

Steven Rueckert - Western Electricity Coordinating Council - 10

Answer Yes

Document Name

Comment

As mentioned above, WECC supports the CIP-013-1 implementation plan, including the expectation for the initial performance of the R3 review and approval on or before the effective date.

Likes 0

Dislikes 0

Response

Chad Bowman - Public Utility District No. 1 of Chelan County - 1

Answer Yes

Document Name

Comment

CHPD supports these changes.

Likes 0

Dislikes 0

Response

Mick Neshem - Public Utility District No. 1 of Chelan County - 3

| | |
|---|-----|
| Answer | Yes |
| Document Name | |
| Comment | |
| CHPD supports these changes. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Jeff Icke - Colorado Springs Utilities - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Colorado Springs Utilities supports the comments provided by APPA | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Steven Sconce - EDF Renewable Energy - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| No comment. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Allan Long - Memphis Light, Gas and Water Division - 1 | |
| Answer | Yes |
| Document Name | |

Comment

We agree with APPA's submitted comments, including:

Suggesting a change in wording to say that the Supply Chain Risk Management Plan must be used on or after the implementation date rather than saying that contracts on or after that date are within scope of CIP-013.

Clarification should be made about if/when existing contracts or agreements come into scope.

Likes 0

Dislikes 0

Response**Tyson Archie - Platte River Power Authority - 5**

Answer

Yes

Document Name

Comment

PRPA generally agrees with an 18-month implementation plan but, would prefer a 24-month implementation plan. PRPA feels that a 24-month timeframe is more appropriate and gives the entity additional time to align budgets and develop processes with vendors and suppliers.

Likes 0

Dislikes 0

Response**Andrew Gallo - Austin Energy - 6**

Answer

Yes

Document Name

Comment

AE generally agrees with an 18-month implementation plan but, would prefer 24-months. AE feels a 24-month timeframe is more appropriate and gives entities additional time to align budgets and develop processes with vendors and suppliers. As a municipal utility, AE's procurement process is quite long.

Likes 0

Dislikes 0

Response

Ginette Lacasse - Seattle City Light - 1,3,4,5,6 - WECC, Group Name Seattle City Light Ballot Body

Answer Yes

Document Name 2016-03_Unofficial_Comment_Form_SCL_2017-6-14 Final to NERC.docx

Comment

See attached comments

Likes 0

Dislikes 0

Response

Normande Bouffard - Hydro-Qu?bec Production - 5

Answer Yes

Document Name

Comment

Recommend changing this General Consideration from

Contracts entering the Responsible Entity's procurement process (e.g. through Request for Proposals) on or after the effective date are within scope of CIP-013-1. Contract effective date, commencement date, or other activation dates specified in the contract do not determine whether the contract is within scope of CIP-013-1.

To

Supply Chain Risk Management plan must be used by the procurement processes that begin on or after the implementation date of the CIP-013-1. Make corresponding change to the CIP-013 R2 note.

And

CIP-005-6 and CIP-010-3 must be implemented 18 months after the implementation date of the CIP-013-1

Implementation Plan does not handle unplanned changes such as IROLs or registration, etc.

Request a 24 month implementation of CIP-013-1 due to budget cycles and technical controls for other CIP Standards

Likes 0

Dislikes 0

Response

Lona Calderon - Salt River Project - 1,3,5,6 - WECC

Answer Yes

| | |
|--|-----|
| Document Name | |
| Comment | |
| SRP generally agrees with an 18-month implementation plan but, would prefer a 24-month implementation plan. SRP feels that a 24-month timeframe is more appropriate and gives the entity additional time to align budgets and develop processes with vendors and suppliers. | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| Alan Farmer - ACEC - NA - Not Applicable - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF | |
| Answer | Yes |
| Document Name | |
| Comment | |
| While in overall agreement with the updated Implementation Plan, ACEC does have the following concern: The second paragraph in the section "General Considerations" states "Contracts entering the Responsible Entity's procurement process (e.g. through Request for Proposals) on or after the effective date are within scope of CIP-013-1. Contract effective date, commencement date, or other activation dates specified in the contract do not determine whether the contract is within scope of CIP-013-1." Based upon the above wording it could be understood that Master Supply Agreements (MSAs) would need to be changed in the first RFP after implementation of the new standard. The paragraph should state specifically that this is not required, and that the plan can allow MSAs to exist as is until it is time to review in the normal procurement process. | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| Barry Lawson - National Rural Electric Cooperative Association - 4 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| NRECA supports the new implementation plan timeframe. However, this implementation plan unintentionally removes the provisions for additional time to implement unplanned changes in CIP-005 and CIP-010 that was provided in the V5 and V6 implementation plans. NRECA strongly requests that the language from the "Planned or Unplanned Changes Resulting in a Higher Categorization" section of the CIP V5 standards implementation plan be re-inserted into the supply chain implementation plan. Additionally, the absence of the "Applicable Facilities" section or other language that clearly indicates these standards/requirements do not apply to "low" entities is missing in the Implementation Plan. NRECA urges the SDT to add this section the Implementation Plan. | |

Likes 0

Dislikes 0

Response

David Rivera - New York Power Authority - 3

Answer

Yes

Document Name

Comment

NYPA supports the comments submitted by Salt River Project (WECC) and NPCC.

Likes 0

Dislikes 0

Response

Russel Mountjoy - Midwest Reliability Organization - 10, Group Name MRO NSRF

Answer

Yes

Document Name

Comment

Thank you for your statement under Initial Performance of Periodic Requirements, that the supply chain security risk management plans need to be approved on or before the effective date of CIP-013-1.

Likes 0

Dislikes 0

Response

Don Schmit - Nebraska Public Power District - 5

Answer

Yes

Document Name

Comment

Comments: NPPD supports the position of the MRO NSRF.

NPPD believes a 24-month implementation should be used due to budgeting and the technical implementation requirements for the other CIP Standards.

| | |
|---|-----|
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| Brian Evans-Mongeon - Utility Services, Inc. - 4 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| <p>Recommend changing this General Consideration from:</p> <p>Contracts entering the Responsible Entity's procurement process (e.g. through Request for Proposals) on or after the effective date are within scope of CIP-013-1. Contract effective date, commencement date, or other activation dates specified in the contract do not determine whether the contract is within scope of CIP-013-1.</p> <p>To:</p> <p>Supply Chain Risk Management plan must be used by appropriate procurement processes that begin on or after the implementation date. Make corresponding change to the CIP-013 R2 note.</p> <p>Further, USI requests clarification on if/when existing contracts, master contracts, or long-term maintenance agreements that re-opened for renegotiation or put in use, come into the scope of CIP-013.</p> <p>The implementation Plan does not handle unplanned changes such as IROLs or registration, etc. Request that the Implementation Plan be modified to handle entities that meet the applicability after the effective date of the standard.</p> <p>USI believes a 24-month implementation should be used due to budget cycles and technical controls for other CIP Standards.</p> | |
| Likes | 1 |
| Dislikes | 0 |
| Chris Gowder, N/A, Gowder Chris | |
| Response | |
| Guy Andrews - Georgia System Operations Corporation - 4 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| <p>GSOC supports NRECA's Comments of:</p> <p>NRECA supports the new implementation plan timeframe. However, this implementation plan unintentionally removes the provisions for additional time to implement unplanned changes in CIP-005 and CIP-010 that was provided in the V5 and V6 implementation plans. NRECA strongly requests that the</p> | |

language from the “Planned or Unplanned Changes Resulting in a Higher Categorization” section of the CIP V5 standards implementation plan be re-inserted into the supply chain implementation plan.

Additionally, the absence of the “Applicable Facilities” section or other language that clearly indicates these standards/requirements do not apply to “low” entities is missing in the Implementation Plan. NRECA urges the SDT to add this section the Implementation Plan.

Likes 0

Dislikes 0

Response

Kara White - NRG - NRG Energy, Inc. - 3,4,5,6 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF

Answer

Yes

Document Name

Comment

NRG recommends changing this General Consideration from:

Contracts entering the Responsible Entity's procurement process (e.g. through Request for Proposals) on or after the effective date are within scope of CIP-013-1. Contract effective date, commencement date, or other activation dates specified in the contract do not determine whether the contract is within scope of CIP-013-1.

To

Supply Chain Risk Management plan must be used by the procurement processes that begin on or after the implementation date. Please consider making the corresponding change to the CIP-013 R2 note

The Implementation Plan does not appear to address unplanned changes such as IROLs or registration, etc.

NRG requests consideration of a 24 month implementation due to budget cycles and technical controls for other CIP Standards

Likes 0

Dislikes 0

Response

LeRoy Patterson - Public Utility District No. 2 of Grant County, Washington - 6

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Mark Holman - PJM Interconnection, L.L.C. - 2

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Aaron Cavanaugh - Bonneville Power Administration - 1,3,5,6 - WECC

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Stephanie Little - Stephanie Little

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Brenda Hampton - Luminant - Luminant Energy - 6, Group Name Luminant**Answer** Yes**Document Name****Comment**

Likes 0

Dislikes 0

Response**Wesley Maurer - Lower Colorado River Authority - 5****Answer** Yes**Document Name****Comment**

Likes 0

Dislikes 0

Response**David Ramkalawan - Ontario Power Generation Inc. - 5****Answer** Yes**Document Name****Comment**

Likes 0

Dislikes 0

Response**Colby Bellville - Duke Energy - 1,3,5,6 - FRCC,SERC,RF, Group Name Duke Energy****Answer** Yes**Document Name****Comment**

Likes 0

Dislikes 0

Response

Sergio Banuelos - Tri-State G and T Association, Inc. - 1,3,5 - MRO,WECC

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Victor Garzon - El Paso Electric Company - 5

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Pablo Onate - El Paso Electric Company - 1

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Rhonda Bryant - El Paso Electric Company - 3

| | |
|--|-----|
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| Glen Farmer - Avista - Avista Corporation - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| Venona Greaff - Oxy - Occidental Chemical - 7, Group Name Oxy | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes | 0 |
| Dislikes | 0 |
| Response | |
| Bradley Calbick - Bradley Calbick On Behalf of: Bryan Cox, Avista - Avista Corporation, 3, 1, 5; - Bradley Calbick | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes | 0 |

Dislikes 0

Response

Randy Buswell - VELCO -Vermont Electric Power Company, Inc. - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Bill Watson - Old Dominion Electric Coop. - 3

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Brian Millard - Tennessee Valley Authority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Sandra Pacheco - Silicon Valley Power - City of Santa Clara - 3,5

Answer Yes

| | |
|---|-----|
| Document Name | |
| Comment | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Val Ridad - Silicon Valley Power - City of Santa Clara - 3,5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Shelby Wade - PPL - Louisville Gas and Electric Co. - 1,3,5,6 - SERC,RF, Group Name PPL NERC Registered Affiliates | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Sean Bodkin - Dominion - Dominion Resources, Inc. - 6, Group Name Dominion | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes 0 | |
| Dislikes 0 | |

Response

Aaron Ghodooshim - FirstEnergy - FirstEnergy Corporation - 1,3,4,5,6 - RF, Group Name FirstEnergy Corporation

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Daniel Grinkevich - Con Ed - Consolidated Edison Co. of New York - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Shawn Abrams - Santee Cooper - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Thomas Foltz - AEP - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response**Michael Haff - Seminole Electric Cooperative, Inc. - 1,3,4,5,6 - FRCC****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response**Amelia Sawyer - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response**Harold Sherrill - Harold Sherrill On Behalf of: Martine Blair, Sempra - San Diego Gas and Electric, 5, 3, 1; - Harold Sherrill****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response

Lauren Price - American Transmission Company, LLC - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Richard Kinas - Orlando Utilities Commission - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Julie Hall - Entergy - 6, Group Name Entergy/NERC Compliance

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Alex Ybarra - Public Utility District No. 2 of Grant County, Washington - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Tho Tran - Oncor Electric Delivery - 1 - Texas RE

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Andrey Komissarov - Andrey Komissarov On Behalf of: Jerome Gobby, Sempra - San Diego Gas and Electric, 5, 3, 1; - Andrey Komissarov

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Andrew Meyers - Bonneville Power Administration - 6

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

John Williams - Tallahassee Electric (City of Tallahassee, FL) - 3**Answer** Yes**Document Name****Comment**

Likes 1

Tallahassee Electric (City of Tallahassee, FL), 1, Langston Scott

Dislikes 0

Response**Melanie Seader - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable****Answer** Yes**Document Name****Comment**

Likes 0

Dislikes 0

Response**Chris Scanlon - Exelon - 1****Answer** Yes**Document Name****Comment**

Likes 0

Dislikes 0

Response**Laura Nelson - IDACORP - Idaho Power Company - 1****Answer** Yes**Document Name****Comment**

Likes 0

Dislikes 0

Response

Heather Morgan - EDP Renewables North America LLC - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Shannon Mickens - Southwest Power Pool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Allie Gavin - Allie Gavin On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Rachel Coyne - Texas Reliability Entity, Inc. - 10

| | |
|---|--|
| Answer | |
| Document Name | |
| Comment | |
| Texas RE requests that the SDT provide its rationale for extending the effective date from 12 to 18 months. For example, it is unclear whether the SDT believes more certainty is required regarding the necessary technical deployments for compliance with the Standard as some commenters suggested to justify the extended implementation period. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Richard Vine - California ISO - 2 | |
| Answer | |
| Document Name | |
| Comment | |
| The ISO supports the comments of the Security Working Group (SWG) | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Scott Miller - Scott Miller On Behalf of: David Weekley, MEAG Power, 3, 5, 1; Roger Brand, MEAG Power, 3, 5, 1; Steven Grego, MEAG Power, 3, 5, 1; - Scott Miller, Group Name MEAG Power | |
| Answer | |
| Document Name | |
| Comment | |
| MEAG supports the answers and comments of Salt River Project. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |

6. The SDT revised the Violation Severity Levels (VSLs) for requirements in CIP-013-1, CIP-005-6, and CIP-010-3. Do you agree with the Violation Risk Factors (VRFs) and Violation Severity Levels (VSLs) for the proposed requirements? If you do not agree, or if you agree but have comments or suggestions for the VRFs and VSLs, please provide your recommendation and explanation.

Elizabeth Axson - Electric Reliability Council of Texas, Inc. - 2

Answer No

Document Name

Comment

ERCOT joins the comments of the IRC.

Likes 0

Dislikes 0

Response

Colby Bellville - Duke Energy - 1,3,5,6 - FRCC,SERC,RF, Group Name Duke Energy

Answer No

Document Name

Comment

Duke Energy suggests the drafting team consider implementing a staggered approach to the VSL(s) specifically to CIP-013-1 R2. As written, an entity could implement all aspects but one sub-part of the risk management plan, and the violation would have a VSL of Severe. We recommend the drafting team consider a more equitable approach and stagger the VSL(s) similar to the approach used in R1 of CIP-003-6.

Likes 0

Dislikes 0

Response

David Gordon - Massachusetts Municipal Wholesale Electric Company - 5

Answer No

Document Name

Comment

MMWEC supports comments submitted by APPA.

Likes 0

Dislikes 0

Response

Brian Evans-Mongeon - Utility Services, Inc. - 4

Answer No

Document Name

Comment

We do not agree with the VRF Justification for CIP-013-1 R1, FERC VRF G5 with the new redline. Agree with the words that were redline out.

CIP-010 – VSL does not cover the failure to implement the process and therefore does not include all of the combinations. Consequently, we request that there be lower severity levels when a single aspect of the requirements is missing.

Request that that the term “elements” be included in CIP-013 R1.2 (as shown in comments for question 1) to clearly align with the VSLs for this requirement.

Likes 1 Chris Gowder, N/A, Gowder Chris

Dislikes 0

Response

Ginette Lacasse - Seattle City Light - 1,3,4,5,6 - WECC, Group Name Seattle City Light Ballot Body

Answer No

Document Name 2016-03_Unofficial_Comment_Form_SCL_2017-6-14 Final to NERC.docx

Comment

See attached comments

Likes 0

Dislikes 0

Response

Richard Kinan - Orlando Utilities Commission - 5

Answer No

Document Name

Comment

The VSL for R2 only provides for a Severe VLS. It is unclear what is meant by "did not implement". If your plan has 5 areas within it and 4 of the 5 were fully implemented, has the plan been implemented? I contend yes however not fully implemented. The VSL were created to identify how far of the compliance mark an entity fell. This VLS completely fails to perform this action. While at the same time the VSL for R3 utilizes arbitrary calendar months

for clear VLS separation between lower and severe. Both of these VLS provide little benefit to industry in assessing the real impact to the BES based on an entity missing the compliance mark.

Likes 0

Dislikes 0

Response

Allan Long - Memphis Light, Gas and Water Division - 1

Answer

No

Document Name

Comment

We support APPA's comments that the original wording is better than the new redline of the VRF justification.

Likes 0

Dislikes 0

Response

Thomas Foltz - AEP - 5

Answer

No

Document Name

Comment

While an important topic, at this time AEP does not agree that risks associated with violations of these draft standards is a "Medium" risk to the BES. AEP recommends the Violation Risk Factor for each of the requirements CIP-013-1 R 1-3 be considered "Lower."

Likes 0

Dislikes 0

Response

Mick Neshem - Public Utility District No. 1 of Chelan County - 3

Answer

No

Document Name

Comment

CHPD asks that that the term “elements” be included in CIP-013 R1.2 to clearly align with the VSLs for this requirement.

“1.2. One or more process(es) for its newly procured BES Cyber Systems that address the following elements, as applicable:”

Likes 0

Dislikes 0

Response

Sean Bodkin - Dominion - Dominion Resources, Inc. - 6, Group Name Dominion

Answer

No

Document Name

Comment

: For CIP-013-1, R3, Dominion recommends the following alternate VSL values.

- Low – No change
- Moderate – 16-18 calendar days
- High – greater than 18 calendar days
- Severe – When a review has never been performed

Likes 0

Dislikes 0

Response

Chad Bowman - Public Utility District No. 1 of Chelan County - 1

Answer

No

Document Name

Comment

CHPD asks that that the term “elements” be included in CIP-013 R1.2 to clearly align with the VSLs for this requirement.

“1.2. One or more process(es) **for its newly procured** BES Cyber Systems that address the following **elements**, as applicable:”

Likes 0

Dislikes 0

Response

Haley Sousa - Public Utility District No. 1 of Chelan County - 5

Answer No

Document Name

Comment

CHPD asks that that the term “elements” be included in CIP-013 R1.2 to clearly align with the VSLs for this requirement.

*“1.2. One or more process(es) for its newly procured BES Cyber Systems that address the following **elements**, as applicable:”*

Likes 0

Dislikes 0

Response

Janis Weddle - Public Utility District No. 1 of Chelan County - 6

Answer No

Document Name

Comment

CHPD asks that that the term “elements” be included in CIP-013 R1.2 to clearly align with the VSLs for this requirement.

*“1.2. One or more process(es) for its newly procured BES Cyber Systems that address the following **elements**, as applicable:”*

Likes 0

Dislikes 0

Response

Bob Thomas - Illinois Municipal Electric Agency - 4

Answer No

Document Name

Comment

Illinois Municipal Electric Agency supports comments submitted by the American Public Power Association.

Likes 0

Dislikes 0

Response

Richard Vine - California ISO - 2

Answer Yes

Document Name

Comment

The ISO supports the comments of the Security Working Group (SWG)

Likes 0

Dislikes 0

Response

Franklin Lu - Snohomish County PUD No. 1 - 6

Answer Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Sam Nietfeld - Public Utility District No. 1 of Snohomish County - 5

Answer Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Mark Oens - Snohomish County PUD No. 1 - 3

Answer Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Long Duong - Public Utility District No. 1 of Snohomish County - 1

Answer Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

John Martinsen - Public Utility District No. 1 of Snohomish County - 4

Answer Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Teresa Cantwell - Lower Colorado River Authority - 1**Answer** Yes**Document Name****Comment**

No comment.

Likes 0

Dislikes 0

Response**Brandon Cain - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - SERC, Group Name Southern Company****Answer** Yes**Document Name****Comment**

No additional comments.

Likes 0

Dislikes 0

Response**David Francis - SRC - 1,2 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF, Group Name SRC + SWG****Answer** Yes**Document Name****Comment**

The IRC suggests the drafting team add more thresholds to the VSLs for R2 of CIP-013-1 and that it be aligned more closely with that of R1, rather than making it binary. The cyber security risk management plan will be fairly large and missing small portions of the plan should not immediately result in a Severe VSL.

Likes 0

Dislikes 0

Response**Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion**

| | |
|---|-----------------------------------|
| Answer | Yes |
| Document Name | |
| Comment | |
| None | |
| Likes 1 | Chantal Mazza, N/A, Mazza Chantal |
| Dislikes 0 | |
| Response | |
| Warren Cross - ACES Power Marketing - 1,3,4,5 - WECC,Texas RE,SERC,SPP RE,RF, Group Name ACES Standards Collaborators | |
| Answer | Yes |
| Document Name | |
| Comment | |
| No comments. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Timothy Reyher - Eversource Energy - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| None | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Linda Jacobson-Quinn - City of Farmington - 3 | |
| Answer | Yes |
| Document Name | |

Comment

FEUS supports the comments submitted by APPA

Likes 0

Dislikes 0

Response**Mark Holman - PJM Interconnection, L.L.C. - 2**

Answer

Yes

Document Name

Comment

There should be lower, moderate and high VSLs for R2, (not implementing portions of the requirement). PJM suggests using the language in the lower, moderate and high R1 VSLs as a starting point.

Likes 0

Dislikes 0

Response**LeRoy Patterson - Public Utility District No. 2 of Grant County, Washington - 6**

Answer

Yes

Document Name

Comment

Yes for CIP-005-6 and CIP-010-3 only

Likes 0

Dislikes 0

Response**Kara White - NRG - NRG Energy, Inc. - 3,4,5,6 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF**

Answer

Yes

Document Name

Comment

None

Likes 0

Dislikes 0

Response

David Rivera - New York Power Authority - 3

Answer

Yes

Document Name

Comment

NYPA supports the comments submitted by Salt River Project (WECC) and NPCC.

Likes 0

Dislikes 0

Response

Alan Farmer - ACEC - NA - Not Applicable - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF

Answer

Yes

Document Name

Comment

No Comments

Likes 0

Dislikes 0

Response

Alex Ybarra - Public Utility District No. 2 of Grant County, Washington - 5

Answer

Yes

Document Name

Comment

YES for CIP-005-6 and CIP-010-3 only

Likes 0

Dislikes 0

Response

Lona Calderon - Salt River Project - 1,3,5,6 - WECC

Answer

Yes

Document Name

Comment

SRP agrees with the VRFs and VSLs for CIP-010 and CIP-013. SRP believes that the VRFs and VSLs for CIP-005 should be updated to reflect the same approach that was taken in CIP-010. The VSL for CIP-005 results in a severe penalty if the entity did not have a method to determine and did not have a method to disable. SRP would prefer a High VSL penalty if the entity has a process to determine but does not have a process to disable and vice-versa if the entity did not have a process to determine but does have a process to disable.

SRP requests that the term “elements” be included in CIP-013 R1.2 (as shown above) to clearly align with the VSLs for this requirement.

Likes 0

Dislikes 0

Response

Andrew Gallo - Austin Energy - 6

Answer

Yes

Document Name

Comment

AE agrees with the VRFs and VSLs for CIP-010 and CIP-013. AE believes the VRFs and VSLs for CIP-005 should be updated to reflect the same approach taken in CIP-010. The VSL for CIP-005 results in a severe penalty if an entity does not have a method to determine and does not have a method to disable. AE would prefer a High VSL penalty if the entity has a process to determine but does not have a process to disable and vice-versa if the entity did not have a process to determine but does have a process to disable.

AE requests the term “elements” be included in CIP-013 R1.2 (as shown above) to clearly align with the VSLs for this requirement.

Likes 0

Dislikes 0

Response

Joe Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Jamie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of

Northern California, 1; Lori Folkman, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; - Joe Tarantino

| | |
|--------|-----|
| Answer | Yes |
|--------|-----|

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| Document Name | |
|---------------|--|

Comment

SMUD agrees with the VRFs and VSLs for CIP-010 and CIP-013. SMUD believes that the VRFs and VSLs for CIP-005 should be updated to reflect the same approach that was taken in CIP-010. The VSL for CIP-005 results in a severe penalty if the entity did not have a method to determine and did not have a method to disable. SMUD would prefer a High VSL penalty if the entity has a process to determine but does not have a process to disable and vice-versa if the entity did not have a process to determine but does have a process to disable.

SMUD requests that the term “elements” be included in CIP-013 R1.2 (as shown above) to clearly align with the VSLs for this requirement.

| | |
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| Likes 0 | |
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| | |
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| Dislikes 0 | |
|------------|--|

Response

Tyson Archie - Platte River Power Authority - 5

| | |
|--------|-----|
| Answer | Yes |
|--------|-----|

| | |
|---------------|--|
| Document Name | |
|---------------|--|

Comment

PRPA agrees with the VRFs and VSLs for CIP-010 and CIP-013. PRPA believes that the VRFs and VSLs for CIP-005 should be updated to reflect the same approach that was taken in CIP-010. The VSL for CIP-005 results in a severe penalty if the entity did not have a method to determine and did not have a method to disable. PRPA would prefer a High VSL penalty if the entity has a process to determine but does not have a process to disable and vice-versa if the entity did not have a process to determine but does have a process to disable.

PRPA requests that the term “elements” be included in CIP-013 R1.2 (as shown above) to clearly align with the VSLs for this requirement.

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| Likes 0 | |
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| Dislikes 0 | |
|------------|--|

Response

Steven Sconce - EDF Renewable Energy - 5

Answer Yes

Document Name

Comment

No Comment.

Likes 0

Dislikes 0

Response

Jeff Icke - Colorado Springs Utilities - 5

Answer Yes

Document Name

Comment

Colorado Springs Utilities supports the comments provided by APPA

Likes 0

Dislikes 0

Response

Steven Rueckert - Western Electricity Coordinating Council - 10

Answer Yes

Document Name

Comment

WECC has no issues with the VSLs or VRFs from a CIP Auditor perspective.

Likes 0

Dislikes 0

Response

Bradley Calbick - Bradley Calbick On Behalf of: Bryan Cox, Avista - Avista Corporation, 3, 1, 5; - Bradley Calbick

| | |
|--|-----|
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| William Harris - Foundation for Resilient Societies - 8 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Venona Greaff - Oxy - Occidental Chemical - 7, Group Name Oxy | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Glen Farmer - Avista - Avista Corporation - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |

Dislikes 0

Response

Rhonda Bryant - El Paso Electric Company - 3

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Pablo Onate - El Paso Electric Company - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Victor Garzon - El Paso Electric Company - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Sergio Banuelos - Tri-State G and T Association, Inc. - 1,3,5 - MRO,WECC

Answer Yes

| | |
|--|-----|
| Document Name | |
| Comment | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Rachel Coyne - Texas Reliability Entity, Inc. - 10 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| David Ramkalawan - Ontario Power Generation Inc. - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Michael Brytowski - Michael Brytowski On Behalf of: Donna Stephenson, Great River Energy, 5, 3, 1, 6; - Michael Brytowski | |
| Answer | Yes |
| Document Name | |
| Comment | |
| Likes 0 | |
| Dislikes 0 | |

Response

Wesley Maurer - Lower Colorado River Authority - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Stephanie Little - Stephanie Little

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Quintin Lee - Eversource Energy - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Jesus Sammy Alcaraz - Imperial Irrigation District - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response**Aaron Cavanaugh - Bonneville Power Administration - 1,3,5,6 - WECC****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response**Allie Gavin - Allie Gavin On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response**Shannon Mickens - Southwest Power Pool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response

Heather Morgan - EDP Renewables North America LLC - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Chris Scanlon - Exelon - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Melanie Seader - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

John Williams - Tallahassee Electric (City of Tallahassee, FL) - 3

Answer Yes

Document Name

Comment

Likes 1

Tallahassee Electric (City of Tallahassee, FL), 1, Langston Scott

Dislikes 0

Response

Andrew Meyers - Bonneville Power Administration - 6

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Andrey Komissarov - Andrey Komissarov On Behalf of: Jerome Gobby, Sempra - San Diego Gas and Electric, 5, 3, 1; - Andrey Komissarov

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Tho Tran - Oncor Electric Delivery - 1 - Texas RE

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Wendy Center - U.S. Bureau of Reclamation - 5

| | |
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| Answer | Yes |
|---------------|-----|

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| Document Name | |
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| Comment | |
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| | |
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| Likes | 0 |
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| Dislikes | 0 |
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| Response | |
|-----------------|--|

Julie Hall - Entergy - 6, Group Name Entergy/NERC Compliance

| | |
|---------------|-----|
| Answer | Yes |
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| Document Name | |
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| | |
|----------------|--|
| Comment | |
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| | |
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| Likes | 0 |
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| Dislikes | 0 |
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| | |
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| Response | |
|-----------------|--|

Normande Bouffard - Hydro-Qu?bec Production - 5

| | |
|---------------|-----|
| Answer | Yes |
|---------------|-----|

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| Document Name | |
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| Comment | |
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| Likes | 0 |
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| Dislikes | 0 |
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| Response | |
|-----------------|--|

Lauren Price - American Transmission Company, LLC - 1

| | |
|---------------|-----|
| Answer | Yes |
|---------------|-----|

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| Document Name | |
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| Comment | |
|----------------|--|

Likes 0

Dislikes 0

Response

Harold Sherrill - Harold Sherrill On Behalf of: Martine Blair, Sempra - San Diego Gas and Electric, 5, 3, 1; - Harold Sherrill

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Amelia Sawyer - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Aaron Ghodooshim - FirstEnergy - FirstEnergy Corporation - 1,3,4,5,6 - RF, Group Name FirstEnergy Corporation

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Val Ridad - Silicon Valley Power - City of Santa Clara - 3,5

| | |
|---|-----|
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Sandra Pacheco - Silicon Valley Power - City of Santa Clara - 3,5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Brian Millard - Tennessee Valley Authority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Bill Watson - Old Dominion Electric Coop. - 3 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |

Dislikes 0

Response

Randy Buswell - VELCO -Vermont Electric Power Company, Inc. - 1

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Michael Shaw - Lower Colorado River Authority - 6, Group Name LCRA Compliance

Answer

Document Name

Comment

No comment

Likes 0

Dislikes 0

Response

Scott Miller - Scott Miller On Behalf of: David Weekley, MEAG Power, 3, 5, 1; Roger Brand, MEAG Power, 3, 5, 1; Steven Grego, MEAG Power, 3, 5, 1; - Scott Miller, Group Name MEAG Power

Answer

Document Name

Comment

MEAG supports the answers and comments of Salt River Project.

Likes 0

Dislikes 0

Response

7. The SDT developed draft Implementation Guidance for CIP-013 to provide examples of how a Responsible Entity could comply with the requirements. The draft Implementation Guidance does not prescribe the only approach to compliance. Rather, it describes some approaches the SDT believes would be effective ways to comply with the standard. See NERC's [Compliance Guidance policy](#) for information on Implementation Guidance. Do you agree with the example approaches in the draft Implementation Guidance? If you do not agree, or if you agree but have comments or suggestions for the draft Implementation Guidance, please provide your recommendation and explanation.

LeRoy Patterson - Public Utility District No. 2 of Grant County, Washington - 6

Answer No

Document Name

Comment

The requirements aren't vetted enough to make a fair judgement.

Likes 0

Dislikes 0

Response

Timothy Reyher - Eversource Energy - 5

Answer No

Document Name

Comment

Implementation Guidance for R3

Neither main bullet meets compliance because both only deal with the review and not the approval. Recommend changing "Below are some examples of approaches to comply with this requirement:" to "Below is an example of an approach to comply with the review requirement required by:"

Implementation Guidance for R3 –

Recommend removing this language from the second main bullet, since it is beyond the Requirement

"Upon approval of changes to the supply chain cyber security risk management plan(s), the CIP Senior Manager or approved delegate should provide appropriate communications to the affected organizations or individuals. Additionally, communications or training material may be developed to ensure any organizational areas affected by revisions are informed."

Likes 0

Dislikes 0

Response

Bob Thomas - Illinois Municipal Electric Agency - 4**Answer** No**Document Name****Comment**

Illinois Municipal Electric Agency supports comments submitted by the American Public Power Association.

Likes 0

Dislikes 0

Response**Janis Weddle - Public Utility District No. 1 of Chelan County - 6****Answer** No**Document Name****Comment**

CHPD is uncertain if this new approach best provides assurance and guidance about these new Standards in the absence of the “Guidance and Technical Basis” sections in each Standard and the intentional flexibility of CIP-013 in particular. CHPD is concerned about the possibilities that NERC and the Regions (1) may not endorse the separate implementation guidance at all, (2) may not endorse the guidance in a timely manner with regard to balloting, and (3) may withdraw previously-granted endorsement should FERC request revisions to the Standard. As such, CHPD would prefer to see the new “Implementation Guidance Document” supplemented with “Guidance and Technical Basis” sections in each Standard.

Likes 0

Dislikes 0

Response**Haley Sousa - Public Utility District No. 1 of Chelan County - 5****Answer** No**Document Name****Comment**

CHPD is uncertain if this new approach best provides assurance and guidance about these new Standards in the absence of the “Guidance and Technical Basis” sections in each Standard and the intentional flexibility of CIP-013 in particular. CHPD is concerned about the possibilities that NERC and the Regions (1) may not endorse the separate implementation guidance at all, (2) may not endorse the guidance in a timely manner with regard to balloting, and (3) may withdraw previously-granted endorsement should FERC request revisions to the Standard. As such, CHPD would prefer to see the new “Implementation Guidance Document” supplemented with “Guidance and Technical Basis” sections in each Standard.

Likes 0

Dislikes 0

Response

Chad Bowman - Public Utility District No. 1 of Chelan County - 1

Answer No

Document Name

Comment

CHPD is uncertain if this new approach best provides assurance and guidance about these new Standards in the absence of the “Guidance and Technical Basis” sections in each Standard and the intentional flexibility of CIP-013 in particular. CHPD is concerned about the possibilities that NERC and the Regions (1) may not endorse the separate implementation guidance at all, (2) may not endorse the guidance in a timely manner with regard to balloting, and (3) may withdraw previously-granted endorsement should FERC request revisions to the Standard. As such, CHPD would prefer to see the new “Implementation Guidance Document” supplemented with “Guidance and Technical Basis” sections in each Standard.

Likes 0

Dislikes 0

Response

Sean Bodkin - Dominion - Dominion Resources, Inc. - 6, Group Name Dominion

Answer No

Document Name

Comment

The existing guidance still provides no scope of cyber security risks that should be considered, and without context, many of the proposed actions have no guidelines or measurements for “success” or “failure” or acceptability; nor are there suggested acceptable mitigations if a criterion is not completely met, since there is no clear objective. Furthermore, there is no allowance made for a continuous process, where, as a result of products already being used in BES Cyber Systems and subjected to the existing CIP standards, cyber security risks associated with networks, products and vendors are evaluated on an on-going basis. Detailed changes and additions are outlined in a separate redline Draft Implementation Guidance document that has been forwarded to NERC and the SDT. A summary of the proposals is as follows:

1. Throughout the document, the term ‘controls’ should be changed to a term that more closely reflects the language in the proposed standard. Dominion recommends using ‘terms and conditions’.
2. On page 2, dominion recommends clarifying that cyber security risks are limited to supply chain with the addition of ‘supply chain’ prior to each use of the term cyber security risks.
3. In addition to the clarifying language in item #2 above, Dominion recommends adding the following to more clearly define the term ‘supply chain cyber security risk:

(1) procuring and installing un-secure equipment or (2) procuring and installing un-secure software, including purchasing counterfeit software, or software that has been modified by an un-authorized party, (3) unintentionally failing to anticipate security issues that may arise due to network

architecture, (4) unintentionally failing to anticipate security issues that may arise during technology and vendor transitions for BES Cyber Systems). The additional bullets could be sub-bullets under the appropriate of these four broad areas as examples rather than individual, isolated items.

4. Dominion recommends deleting the third paragraph on page 2. This paragraph appears to be creating new/different obligations. The language appears to create confusion and calls out Section 1.2.5 specifically for no apparent reason.

5. The language in blue boxes throughout the document should be retained and included in the text of the document.

6. It is unclear what the purpose of including certain language in a blue box is.

7. Section headings should be included with each of the examples. Also, the bulleted format makes it unclear if one, all, or a certain number of bulleted items need to be performed to achieve compliance.

8. Add the following example under R1.1:

Develop an approved vendor/products list. When planning a BCS, the RE should evaluate the following items:

- - Vendors
 - Products
 - Network Architecture
 - Network Components.

The RE should document (which may be limited to the baseline and cyber vulnerability assessment (CVA) required for a new product) any risks (i.e. 1) procuring and installing un-secure equipment or (2) procuring and installing un-secure software, including purchasing counterfeit software, or software that has been modified by an un-authorized party, (3) unintentionally failing to anticipate security issues that may arise due to network architecture, (4) unintentionally failing to anticipate security issues that may arise during technology and vendor transitions for BES Cyber Systems) identified and how the risks are mitigated for any "item" that deviates from those vendors, products, network architecture, and network components already being used within the RE's BCS infrastructures, which are required to comply with existing CIP standards.

9. The second bullet in Section 1.2.2 should be removed. It is already addressed under Section 1.2.1.

10. In Section 1.2.3, the end of the first bullet could state be clarified as follows:

Delete 'within a negotiated period of time of such determination' and replace with "to allow the RE to remove access within 24 hours of the determination, consistent with existing CIP standards"

Replace 'breaches' with 'vulnerabilities' for clarity and consistency'.

Likes 0

Dislikes 0

Response

Mick Neshem - Public Utility District No. 1 of Chelan County - 3

Answer No

Document Name

Comment

CHPD is uncertain if this new approach best provides assurance and guidance about these new Standards in the absence of the “Guidance and Technical Basis” sections in each Standard and the intentional flexibility of CIP-013 in particular. CHPD is concerned about the possibilities that NERC and the Regions (1) may not endorse the separate implementation guidance at all, (2) may not endorse the guidance in a timely manner with regard to balloting, and (3) may withdraw previously-granted endorsement should FERC request revisions to the Standard. As such, CHPD would prefer to see the new “Implementation Guidance Document” supplemented with “Guidance and Technical Basis” sections in each Standard.

Likes 0

Dislikes 0

Response

Michael Haff - Seminole Electric Cooperative, Inc. - 1,3,4,5,6 - FRCC

Answer No

Document Name

Comment

The Implementation Guidance only identifies items that could be evaluated in developing a Supply Chain Cyber Security program, but does not provide an example or guidance on how to implement the program. Without this guidance, it is impossible to understand how to comply with CIP-013-1 in a cost-effective and compliant manner.

Likes 0

Dislikes 0

Response

Allan Long - Memphis Light, Gas and Water Division - 1

Answer No

Document Name

Comment

We agree with APPA's submitted comments concerning "vendor" not being a NERC-defined term and that the Implementation Guidance for R3 does not adequately explain compliance needs.

Likes 0

Dislikes 0

Response

Patricia Robertson - BC Hydro and Power Authority - 1, Group Name BC Hydro

Answer

No

Document Name

Comment

BC Hydro does not agree with the examples as compliance will be challenging. It would require us to have sufficient authority over the vendor (which will not be the case in most situations). There is also no way to ensure that a vendor is being completely transparent regarding cyber vulnerabilities in their product. Such disclosure could have other impacts on their business with other clients. This would be a dis-incentive for disclosure. BC Hydro does not believe CIP-013 is necessary and cyber control is already achieved with the rest of the CIP v5 standard requirements around change control, testing and ongoing systems monitoring.

Likes 0

Dislikes 0

Response

Ginette Lacasse - Seattle City Light - 1,3,4,5,6 - WECC, Group Name Seattle City Light Ballot Body

Answer

No

Document Name

2016-03_Unofficial_Comment_Form_SCL_2017-6-14 Final to NERC.docx

Comment

See attached comments.

Likes 0

Dislikes 0

Response

Wendy Center - U.S. Bureau of Reclamation - 5

Answer

No

Document Name**Comment**

It is uncertain when purchasing activities become subject to CIP-013-1. The proposed Implementation Plan states: “Contracts entering the Responsible Entity's procurement process (e.g. through Request for Proposals) on or after the effective date are within scope of CIP-013-1. Contract effective date, commencement date, or other activation dates specified in the contract do not determine whether the contract is within scope of CIP-013-1.”

Reclamation recommends that the “General Considerations” guidance contained in the Implementation Plan pertaining to purchasing activities be included in the proposed standard.

If the “General Considerations” guidance on purchasing activities becomes part of the proposed standard, Reclamation further recommends:

- A contract becomes within scope when the entity commences its formal contract process such as when a request for proposal or solicitation is issued.
- Any direct purchase and/or any repurposed equipment is within scope prior to connecting to the Bulk Electric System as a cyber asset.

Likes 0

Dislikes 0

Response**Tho Tran - Oncor Electric Delivery - 1 - Texas RE**

Answer

No

Document Name**Comment**

There is inconsistency between the Implementation Guidance and CIP-010, R1. The requirement states “For a change that deviates from the existing baseline configuration associated with baseline items in Parts 1.1.1, 1.1.2, and 1.1.5”. The Guidelines and Technical Basis section heading Software and Authenticity, paragraph three on page 39, states: “It is not the intent of the SDT to require a verification of each source or software update at the time it is obtained. It is sufficient to establish the reliable source and software update once. This will allow automated solutions to be implemented to obtain frequent updates such as patches.”

The requirement wording suggests it applies for any change but the Guidance suggests that for some changes, such as patches, it would not apply. Oncor believes that automated patch deployment solutions should be able to verify the identity and integrity of the patch. Therefore, it is believed that the best solution is to modify the Guidance.

Likes 0

Dislikes 0

Response

Brian Evans-Mongeon - Utility Services, Inc. - 4

Answer No

Document Name

Comment

Definition of vendor is not a NERC defined term. The term “vendor” is also used in the proposed CIP-005.

USI believes the SDT should provide guidance regarding the use of the term “vendor.” If “Vendor” is not defined by NERC, the Guidance should recommend that Entities include their definition of “vendor” in their plan(s).

Implementation Guidance for R3

Neither main bullet meets compliance because both only deal with the review and not the approval. Therefore, USI recommends changing: “Below are some examples of approaches to comply with this requirement: “ to “Below is an example of an approach to comply with the review requirement required by: “

In addition, we recommend removing this language from the second main bullet, since it is beyond the Requirement:

“Upon approval of changes to the supply chain cyber security risk management plan(s), the CIP Senior Manager or approved delegate should provide appropriate communications to the affected organizations or individuals. Additionally, communications or training material may be developed to ensure any organizational areas affected by revisions are informed.”

Also, there should be corresponding “Guidelines and Technical Basis” or “Rationale” for CIP-005-6 Requirement R2 Parts 2.4 and 2.5.

Likes 1 Chris Gowder, N/A, Gowder Chris

Dislikes 0

Response

Heather Morgan - EDP Renewables North America LLC - 5

Answer No

Document Name

Comment

- The language within the Implementation Guidance contradicts the language within CIP-013. (i.e. System-based approach). The Implementation Guidance is not auditable, however, the Standard and Requirements are. EDPR NA suggests that the Implementation Guidance is eliminated and further support are provided within the Measures for a Registered Entity and auditor’s reference.
- There are numerous items in which vendors will not provide information on unless an entity is willing pay significant increases (risks, training, methodologies, threats, etc.)
- EDPR NA also suggests that NERC utilize a pilot program to test these requirements prior to enforcing the implementation of CIP-013 to all Registered Entities.

- Please provide more support with respect to the expectations and possible evidence for Requirement 2.

Likes 0

Dislikes 0

Response

David Gordon - Massachusetts Municipal Wholesale Electric Company - 5

Answer No

Document Name

Comment

MMWEC supports comments submitted by APPA.

Likes 0

Dislikes 0

Response

Shannon Mickens - Southwest Power Pool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group

Answer No

Document Name

Comment

There appears to be inconsistency between the requirement and the Guidelines in CIP-010 R1.

The requirement states, in relevant part, "For a change that deviates from the existing baseline configuration associated with baseline items in Parts 1.1.1, 1.1.2, and 1.1.5."

The Guidelines and Technical Basis section heading "Software and Authenticity," paragraph three on page 39, states: "It is not the intent of the SDT to require a verification of each source or software update at the time it is obtained. It is sufficient to establish the reliable source and software update once. This will allow automated solutions to be implemented to obtain frequent updates such as patches." The wording of the CIP-10-3 R1.6 Guidelines and Technical Basis section seems to imply that every time a patch/software is downloaded it does not have to be checked. Based on how the standard is written, the software source and the software must be verified each time something is downloaded. Even if that software was previously downloaded, the source must be validated and so must the software before application.

Furthermore, the requirement wording suggests it applies for any change but the Guidelines suggests that for some changes, such as patches, it would not apply. As the requirement is auditable and the Guidelines are not, the Guidelines become superfluous. The Guideline also introduces significant ambiguity that is impossible to audit. SPP recommends that the SDT review the Guidelines and the draft standard for consistency and resolution.

In addition, SPP recommends that because automated patch deployment solutions should be able to verify the identity and integrity of the patch, the SDT consider allowing for this method of verification in the Measures or Guidelines.

SPP notes that there is no corresponding “Guidelines and Technical Basis” or “Rationale” for CIP-005-6 Requirement R2 Parts 2.4 and 2.5.

Likes 0

Dislikes 0

Response

Kara White - NRG - NRG Energy, Inc. - 3,4,5,6 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF

Answer

No

Document Name

Comment

NRG has concerns that the Implementation Guidance for R3 (main bullet) may not meet compliance because both only deal with the review and not the approval. NRG recommends that the NERC SDT consider changing “Below are some examples of approaches to comply with this requirement:” to “Below is an example of an approach to comply with the review requirement required by:”

NRG has concerns that the Implementation Guidance for R3 – (specifically):

“Upon approval of changes to the supply chain cyber security risk management plan(s), the CIP Senior Manager or approved delegate should provide appropriate communications to the affected organizations or individuals. Additionally, communications or training material may be developed to ensure any organizational areas affected by revisions are informed.”

Therefore, NRG recommends that the NERC SDT consider removing this language from the second main bullet, since it is beyond the Requirement.

There appears to be inconsistency between the requirement and the Guidelines in CIP-010 R1.

The requirement states, in relevant part, “For a change that deviates from the existing baseline configuration associated with baseline items in Parts 1.1.1, 1.1.2, and 1.1.5.”

The Guidelines and Technical Basis section heading “Software and Authenticity,” paragraph three on page 39, states: “It is not the intent of the SDT to require a verification of each source or software update at the time it is obtained. It is sufficient to establish the reliable source and software update

once. This will allow automated solutions to be implemented to obtain frequent updates such as patches.” The wording of the CIP-10-3 R1.6 Guidelines and Technical Basis section seems to imply that every time a patch/software is downloaded it does not have to be checked. Based on how the standard is written, the software source and the software must be verified each time something is downloaded. Even if that software was previously downloaded, the source must be validated and so must the software before application.

Furthermore, the requirement wording suggests it applies for any change but the Guidelines suggests that for some changes, such as patches, it would not apply. As the requirement is auditable and the Guidelines are not, the Guidelines become superfluous. The Guideline also introduces significant ambiguity that is impossible to audit. NRG recommends that the SDT review the Guidelines and the draft standard for consistency and resolution.

In addition, NRG recommends that because automated patch deployment solutions should be able to verify the identity and integrity of the patch, the SDT consider allowing for this method of verification in the Measures or Guidelines.

NRG notes that there is no corresponding “Guidelines and Technical Basis” or “Rationale” for CIP-005-6 Requirement R2 Parts 2.4 and 2.5.

Likes 0

Dislikes 0

Response

Allie Gavin - Allie Gavin On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin

Answer

No

Document Name

Comment

ITC Holdings agrees with the below comment submitted by SPP:

There appears to be inconsistency between the requirement and the Guidelines in CIP-010 R1.

The requirement states, in relevant part, “For a change that deviates from the existing baseline configuration associated with baseline items in Parts 1.1.1, 1.1.2, and 1.1.5.”

The Guidelines and Technical Basis section heading “Software and Authenticity,” paragraph three on page 39, states: “It is not the intent of the SDT to require a verification of each source or software update at the time it is obtained. It is sufficient to establish the reliable source and software update once. This will allow automated solutions to be implemented to obtain frequent updates such as patches.” The wording of the CIP-10-3 R1.6 Guidelines and Technical Basis section seems to imply that every time a patch/software is downloaded it does not have to be checked. Based on how the standard is written, the software source and the software must be verified each time something is downloaded. Even if that software was previously downloaded, the source must be validated and so must the software before application.

Furthermore, the requirement wording suggests it applies for any change but the Guidelines suggests that for some changes, such as patches, it would not apply. As the requirement is auditable and the Guidelines are not, the Guidelines become superfluous. The Guideline also introduces significant ambiguity that is impossible to audit. SPP recommends that the SDT review the Guidelines and the draft standard for consistency and resolution.

In addition, SPP recommends that because automated patch deployment solutions should be able to verify the identity and integrity of the patch, the SDT consider allowing for this method of verification in the Measures or Guidelines.

SPP notes that there is no corresponding “Guidelines and Technical Basis” or “Rationale” for CIP-005-6 Requirement R2 Parts 2.4 and 2.5.

Likes 0

Dislikes 0

Response

William Harris - Foundation for Resilient Societies - 8

Answer

No

Document Name

Comment

Likes 0

Dislikes 0

Response

Mark Holman - PJM Interconnection, L.L.C. - 2

Answer

Yes

Document Name

Comment

As stated in the CIP-013 comments in question 1 above, the guidance needs to clarify what constitutes an incident (such as only actual breaches).

Likes 0

Dislikes 0

Response

Aaron Cavanaugh - Bonneville Power Administration - 1,3,5,6 - WECC

Answer

Yes

Document Name

Comment

Yes, and BPA disagrees with the language in Requirement R3 requiring the CIP Senior Manager or delegate approve the supply chain cyber security risk management plans. Other CIP standards, such as CIP-003-6, Requirement R1, require CIP Senior Manager approval of “policies,” not “plans.” In

Order No. 829, the Federal Energy Regulatory Commission stated, “Consistent with or similar to the requirement in Reliability Standard CIP-003-6, Requirement R1, the Reliability Standard should require the responsible entity’s CIP Senior Manager to review and approve the controls adopted to meet the specific security objectives identified in the Reliability Standard at least every 15 months.” Order No. 829 at P46 (emphasis added). Requiring CIP Senior Manager approval of plans is not consistent or similar to requiring approval of policies because plans are more tactical and numerous than policies. CIP Senior Manager approval should apply only to overarching strategic documents, and not to approval of highly detailed plans for implementation of processes. Instead, CIP-013 should be added to the list of policies requiring CIP Senior Manager approval in CIP-003-6, Requirement R1.

Likes 0

Dislikes 0

Response

Jesus Sammy Alcaraz - Imperial Irrigation District - 1

Answer Yes

Document Name

Comment

The understanding of the intent and purpose of CIP-013 is very dependent on the Implementation Guidance document. We are concerned about the possibilities that NERC and the Regions (1) may not endorse the separate implementation guidance at all, (2) may not endorse the guidance in a timely manner as regards balloting, and (3) may withdraw previously-granted endorsement should FERC request revisions to the Standard. As such we would prefer to see the new “Implementation Guidance Document” supplemented with “Guidance and Technical Basis” sections in each Standard.

Likes 0

Dislikes 0

Response

Quintin Lee - Eversource Energy - 1

Answer Yes

Document Name

Comment

The Guidance for CIP-013-1 R3 should include the term ‘approved’ since an Entity wouldn’t comply with the requirement with just a review.

Likes 0

Dislikes 0

Response

Linda Jacobson-Quinn - City of Farmington - 3

Answer Yes

Document Name

Comment

FEUS supports the comments submitted by APPA

Likes 0

Dislikes 0

Response

Warren Cross - ACES Power Marketing - 1,3,4,5 - WECC,Texas RE,SERC,SPP RE,RF, Group Name ACES Standards Collaborators

Answer Yes

Document Name

Comment

Yes, the Compliance Guidance policy does provide industry with direction for implementation. However, those guidance details are not written in the requirements, measures or Reliability Standard Audit Worksheet (RSAW) and cannot be relied upon in preparation of an audit. ACES would suggest, at a minimum, that these guidelines be written in the Supply Chain Management RSAWs in the section 'Notes for an Auditor'. By placing this information in the RSAW, it gives industry additional reassurance that each region will audit Supply Chain Management consistently.

Likes 0

Dislikes 0

Response

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion

Answer Yes

Document Name

Comment

Implementation Guidance for R3

Neither main bullet meets compliance because both only deal with the review and not the approval. Recommend changing "Below are some examples of approaches to comply with this requirement:" to "Below is an example of an approach to comply with the review requirement required by:"

Implementation Guidance for R3 –

Recommend removing this language from the second main bullet, since it is beyond the Requirement

“Upon approval of changes to the supply chain cyber security risk management plan(s), the CIP Senior Manager or approved delegate should provide appropriate communications to the affected organizations or individuals. Additionally, communications or training material may be developed to ensure any organizational areas affected by revisions are informed.”

Likes 1 Chantal Mazza, N/A, Mazza Chantal

Dislikes 0

Response

Brandon Cain - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - SERC, Group Name Southern Company

Answer Yes

Document Name

Comment

No additional comments.

Likes 0

Dislikes 0

Response

Teresa Cantwell - Lower Colorado River Authority - 1

Answer Yes

Document Name

Comment

No comment.

Likes 0

Dislikes 0

Response

John Martinsen - Public Utility District No. 1 of Snohomish County - 4

Answer Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Long Duong - Public Utility District No. 1 of Snohomish County - 1

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Mark Oens - Snohomish County PUD No. 1 - 3

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Sam Nietfeld - Public Utility District No. 1 of Snohomish County - 5

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Franklin Lu - Snohomish County PUD No. 1 - 6

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Elizabeth Axson - Electric Reliability Council of Texas, Inc. - 2

Answer

Yes

Document Name

Comment

ERCOT joins the comments of the IRC.

Likes 0

Dislikes 0

Response

Richard Vine - California ISO - 2

Answer

Yes

Document Name

Comment

The ISO supports the comments of the Security Working Group (SWG)

Likes 0

Dislikes 0

Response

Randy Buswell - VELCO -Vermont Electric Power Company, Inc. - 1

Answer

Yes

Document Name

Comment

Implementation Guidance for R3

Neither main bullet meets compliance because both only deal with the review and not the approval. Recommend changing “Below are some examples of approaches to comply with this requirement:” to “Below is an example of an approach to comply with the review requirement required by:”

Implementation Guidance for R3 –

Recommend removing this language from the second main bullet, since it is beyond the Requirement

“Upon approval of changes to the supply chain cyber security risk management plan(s), the CIP Senior Manager or approved delegate should provide appropriate communications to the affected organizations or individuals. Additionally, communications or training material may be developed to ensure any organizational areas affected by revisions are informed.”

Likes 0

Dislikes 0

Response

Shelby Wade - PPL - Louisville Gas and Electric Co. - 1,3,5,6 - SERC,RF, Group Name PPL NERC Registered Affiliates

Answer

Yes

Document Name

Comment

For consistency and clarity between sub-requirement 1.2.2. and the CIP-013-1 Implementation Guidance, we suggest that “cyber security incident(s)” be removed from the examples for 1.2.2. This verbiage should be replaced with either “vendor-identified incidents” or “security event(s)” as referenced in the examples for 1.2.1.

Likes 0

Dislikes 0

Response

Steven Rueckert - Western Electricity Coordinating Council - 10

Answer Yes

Document Name

Comment

The guidance relative to R1.2.2 and R1.2.6 partially address WECC's concerns as stated in Bullet 2 above. In general, the example approaches provide good guidance to industry on ERO expectations for compliance with the various Requirements and Parts. No other issues noted.

Likes 0

Dislikes 0

Response

Jeff Icke - Colorado Springs Utilities - 5

Answer Yes

Document Name

Comment

Colorado Springs Utilities supports the comments provided by APPA

Likes 0

Dislikes 0

Response

Shawn Abrams - Santee Cooper - 1

Answer Yes

Document Name

Comment

The intent and purpose of CIP-013 is very dependent upon the Implementation Guidance document. We appreciate the hard work of the SDT to provide this document to industry and it has valuable information. Additionally, there is no guarantee this document will be approved by NERC.

Likes 0

Dislikes 0

Response

Steven Sconce - EDF Renewable Energy - 5**Answer** Yes**Document Name****Comment**

No comment.

Likes 0

Dislikes 0

Response**Tyson Archie - Platte River Power Authority - 5****Answer** Yes**Document Name****Comment**

PRPA generally agrees with the Implementation Guidance for CIP-013 and feels that this is a promising new approach but is uncertain if the approach best provides assurance and guidance about these new Standards in the absence of the “Guidance and Technical Basis” sections in each Standard and the intentional flexibility of CIP-013 in particular. PRPA is concerned about the possibilities that NERC and the Regions (1) may not endorse the separate implementation guidance at all, (2) may not endorse the guidance in a timely manner as regards balloting, and (3) may withdraw previously-granted endorsement should FERC request revisions to the Standard. As such, PRPA would prefer to see the new “Implementation Guidance Document” supplemented with “Guidance and Technical Basis” sections in each Standard.

R3: PRPA requests that the following language be removed from the second main bullet, since it is out of scope for this Requirement. “Upon approval of changes to the supply chain cyber security risk management plan(s), the CIP Senior Manager or approved delegate should provide appropriate communications to the affected organizations or individuals. Additionally, communications or training material may be developed to ensure any organizational areas affected by revisions are informed.”

Request that there be corresponding “Guidelines and Technical Basis” or “Rationale” for CIP-005-6 Requirement R2 Parts 2.4 and 2.5 and CIP-010-3 R1.6.

Likes 0

Dislikes 0

Response**Amelia Sawyer - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE****Answer** Yes**Document Name****Comment**

In the guidance for Requirement R1, Part 1.2.5, CenterPoint Energy believes including all third-party hardware, software, firmware, and services goes beyond the scope of the requirement. Most systems consist of components or services from numerous third-party companies. The vendor of such systems may not have direct contact with third-party companies. The level of third-party components or services that could be expected to be included may be quite extensive and therefore make it impractical for the vendor to commit to such issues in contract provisions.

Likes 0

Dislikes 0

Response

Joe Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Jamie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of Northern California, 1; Lori Folkman, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; - Joe Tarantino

Answer

Yes

Document Name

Comment

SMUD generally agrees with the Implementation Guidance for CIP-013 and feels that this is a promising new approach but is uncertain if the approach best provides assurance and guidance about these new Standards in the absence of the "Guidance and Technical Basis" sections in each Standard and the intentional flexibility of CIP-013 in particular. SMUD is concerned about the possibilities that NERC and the Regions (1) may not endorse the separate implementation guidance at all, (2) may not endorse the guidance in a timely manner as regards balloting, and (3) may withdraw previously-granted endorsement should FERC request revisions to the Standard. As such, SMUD would prefer to see the new "Implementation Guidance Document" supplemented with "Guidance and Technical Basis" sections in each Standard.

R3: SMUD requests that the following language be removed from the second main bullet, since it is out of scope for this Requirement. "Upon approval of changes to the supply chain cyber security risk management plan(s), the CIP Senior Manager or approved delegate should provide appropriate communications to the affected organizations or individuals. Additionally, communications or training material may be developed to ensure any organizational areas affected by revisions are informed."

SMUD also requests that there be corresponding “Guidelines and Technical Basis” or “Rationale” for CIP-005-6 Requirement R2 Parts 2.4 and 2.5 and CIP-010-3 R1.6.

Likes 0

Dislikes 0

Response

Andrew Gallo - Austin Energy - 6

Answer

Yes

Document Name

Comment

AE is uncertain if the approach best provides assurance and guidance about these new Standards in the absence of the “Guidance and Technical Basis” sections in each Standard and the intentional flexibility of CIP-013 in particular. AE has concerns about the possibilities NERC and the Regions: (1) may not endorse the separate implementation guidance at all, (2) may not endorse the guidance in a timely manner, and (3) may withdraw previously-granted endorsement should FERC request revisions to the Standard. As such, AE would prefer to see the new “Implementation Guidance Document” supplemented with “Guidance and Technical Basis” sections in each Standard.

R3: AE requests the following language be removed from the second main bullet, because it is out-of-scope for this Requirement:

"Upon approval of changes to the supply chain cyber security risk management plan(s), the CIP Senior Manager or approved delegate should provide appropriate communications to the affected organizations or individuals. Additionally, communications or training material may be developed to ensure any organizational areas affected by revisions are informed."

AE requests there be corresponding “Guidelines and Technical Basis” or “Rationale” for CIP-005-6 Requirement R2, Parts 2.4 and 2.5 and CIP-010-3 R1.6.

Likes 0

Dislikes 0

Response

Normande Bouffard - Hydro-Quebec Production - 5

Answer

Yes

Document Name

Comment

Make sure the Compliance Guidance is in the scope of standards.

Likes 0

Dislikes 0

Response

Julie Hall - Entergy - 6, Group Name Entergy/NERC Compliance

Answer

Yes

Document Name

Comment

As mentioned in previous comments, this document provides implementation guidance on CIP-013, but additional guidance on implementation of the CIP-010 and CIP-005 controls is requested, perhaps in the Supplemental Material sections. Particularly CIP-005 R2.

Likes 0

Dislikes 0

Response

Lona Calderon - Salt River Project - 1,3,5,6 - WECC

Answer

Yes

Document Name

Comment

SRP generally agrees with the Implementation Guidance for CIP-013 and feels that this is a promising new approach but is uncertain if the approach best provides assurance and guidance about these new Standards in the absence of the “Guidance and Technical Basis” sections in each Standard and the intentional flexibility of CIP-013 in particular. SRP is concerned about the possibilities that NERC and the Regions (1) may not endorse the separate implementation guidance at all, (2) may not endorse the guidance in a timely manner as regards balloting, and (3) may withdraw previously-granted endorsement should FERC request revisions to the Standard. As such, SRP would prefer to see the new “Implementation Guidance Document” supplemented with “Guidance and Technical Basis” sections in each Standard.

R3: SRP requests that the following language be removed from the second main bullet, since it is out of scope for this Requirement. “Upon approval of changes to the supply chain cyber security risk management plan(s), the CIP Senior Manager or approved delegate should provide appropriate communications to the affected organizations or individuals. Additionally, communications or training material may be developed to ensure any organizational areas affected by revisions are informed.”

Request that there be corresponding “Guidelines and Technical Basis” or “Rationale” for CIP-005-6 Requirement R2 Parts 2.4 and 2.5 and CIP-010-3 R1.6.

Likes 0

Dislikes 0

Response

Andrew Meyers - Bonneville Power Administration - 6

Answer Yes

Document Name

Comment

Yes, and BPA disagrees with the language in Requirement R3 requiring the CIP Senior Manager or delegate approve the supply chain cyber security risk management plans. Other CIP standards, such as CIP-003-6, Requirement R1, require CIP Senior Manager approval of “policies,” not “plans.” In Order No. 829, the Federal Energy Regulatory Commission stated, “*Consistent with or similar to the requirement in Reliability Standard CIP-003-6, Requirement R1*, the Reliability Standard should require the responsible entity’s CIP Senior Manager to review and approve the controls adopted to meet the specific security objectives identified in the Reliability Standard at least every 15 months.” Order No. 829 at P46 (emphasis added). Requiring CIP Senior Manager approval of plans is not consistent or similar to requiring approval of policies because plans are more tactical and numerous than policies. CIP Senior Manager approval should apply only to overarching strategic documents, and not to approval of highly detailed plans for implementation of processes. Instead, CIP-013 should be added to the list of policies requiring CIP Senior Manager approval in CIP-003-6, Requirement R1.

Likes 0

Dislikes 0

Response

Alan Farmer - ACEC - NA - Not Applicable - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF

Answer Yes

Document Name

Comment

While in overall agreement with the Implementation Guidance for CIP-013, ACEC does have the following concern:

In the Implementation Guidance for R1 Section of the document, the subsections for implementation of Requirement R1 Parts 1.2.1, 1.2.2, 1.2.4 and 1.2.5 use the generic term “vendor(s)” in discussing these Software Authenticity and Integrity issues. To help in ensuring that these requirements are implemented in an effective manner, it is recommended that the SDT add a clarification item, noting that these requirements be addressed by the OEM providing the hardware and/or software, not a third-party such as an integrator.

Likes 0

Dislikes 0

Response

Nicholas Lauriat - Network and Security Technologies - 1

Answer Yes

Document Name

Comment

N&ST has no disagreement with the example approaches contained in the Guidance but believes that while they may represent reasonable courses of action for large entities, they are likely to be far beyond the capabilities of small ones. N&ST believes an entity whose combined BES operations, OT support, and CIP compliance teams comprise fewer than 10 individuals would be hard-pressed to “form a team of subject matter experts from across the organization to participate in the BES Cyber System planning and acquisition process(es).” N&ST also believes, based on experience with CIP V1 – V5 cyber security training requirements, that large vendors with many BES customers will balk, sooner or later, at being asked to respond to a multitude of risk assessment requests, questionnaires, meetings, etc., each one different from the previous ones, and will instead incline towards providing a standardized set of information about their internal risk management programs and how they are applied to their products and services.

Likes 0

Dislikes 0

Response**David Rivera - New York Power Authority - 3****Answer**

Yes

Document Name**Comment**

NYPA supports the comments submitted by Salt River Project (WECC) and NPCC.

Likes 0

Dislikes 0

Response**Chris Scanlon - Exelon - 1****Answer**

Yes

Document Name**Comment**

Exelon thanks the SDT for submitting the draft Implementation Guidance for CIP-013. Does the SDT also intend to develop draft Implementation Guidance for the revised/added sections of CIP-005 and CIP-010? If so, is there a timeline that can be shared with Industry participants?

Likes 0

Dislikes 0

Response**Stephanie Little - Stephanie Little**

| | |
|--|-----|
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Wesley Maurer - Lower Colorado River Authority - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Michael Brytowski - Michael Brytowski On Behalf of: Donna Stephenson, Great River Energy, 5, 3, 1, 6; - Michael Brytowski | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| David Ramkalawan - Ontario Power Generation Inc. - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |

Dislikes 0

Response

Sergio Banuelos - Tri-State G and T Association, Inc. - 1,3,5 - MRO,WECC

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

David Francis - SRC - 1,2 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF, Group Name SRC + SWG

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Victor Garzon - El Paso Electric Company - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Pablo Onate - El Paso Electric Company - 1

Answer Yes

| | |
|--|-----|
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Rhonda Bryant - El Paso Electric Company - 3 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Glen Farmer - Avista - Avista Corporation - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Venona Greaff - Oxy - Occidental Chemical - 7, Group Name Oxy | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |

Response

Bradley Calbick - Bradley Calbick On Behalf of: Bryan Cox, Avista - Avista Corporation, 3, 1, 5; - Bradley Calbick

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Bill Watson - Old Dominion Electric Coop. - 3

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Brian Millard - Tennessee Valley Authority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Sandra Pacheco - Silicon Valley Power - City of Santa Clara - 3,5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Val Ridad - Silicon Valley Power - City of Santa Clara - 3,5

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Aaron Ghodooshim - FirstEnergy - FirstEnergy Corporation - 1,3,4,5,6 - RF, Group Name FirstEnergy Corporation

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Thomas Foltz - AEP - 5

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Harold Sherrill - Harold Sherrill On Behalf of: Martine Blair, Sempra - San Diego Gas and Electric, 5, 3, 1; - Harold Sherrill

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Lauren Price - American Transmission Company, LLC - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Alex Ybarra - Public Utility District No. 2 of Grant County, Washington - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Andrey Komissarov - Andrey Komissarov On Behalf of: Jerome Gobby, Sempra - San Diego Gas and Electric, 5, 3, 1; - Andrey Komissarov

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

John Williams - Tallahassee Electric (City of Tallahassee, FL) - 3

Answer

Yes

Document Name

Comment

Likes 1

Tallahassee Electric (City of Tallahassee, FL), 1, Langston Scott

Dislikes 0

Response

Melanie Seader - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Russel Mountjoy - Midwest Reliability Organization - 10, Group Name MRO NSRF

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Don Schmit - Nebraska Public Power District - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Michael Shaw - Lower Colorado River Authority - 6, Group Name LCRA Compliance

Answer

Document Name

Comment

No comment

Likes 0

Dislikes 0

Response

Scott Miller - Scott Miller On Behalf of: David Weekley, MEAG Power, 3, 5, 1; Roger Brand, MEAG Power, 3, 5, 1; Steven Grego, MEAG Power, 3, 5, 1; - Scott Miller, Group Name MEAG Power

Answer

Document Name

Comment

MEAG supports the answers and comments of Salt River Project.

Likes 0

Dislikes 0

Response

8. The SDT believes proposed CIP-013-1 and the draft Implementation Guidance provide entities with flexibility to meet the reliability objectives in a cost effective manner. Do you agree? If you do not agree, or if you agree but have suggestions for improvement to enable additional cost effective approaches, please provide your recommendation and, if appropriate, technical justification.

William Harris - Foundation for Resilient Societies - 8

Answer No

Document Name

Comment

We consider the requirements to be burdensome, and impractical for many or most electric utilities without providing needed protection of the cyber supply chain. We would suggest at the outset adoption of a separate FERC rulemaking to detect, report, mitigate and remove malware from the bulk electric system.

Likes 0

Dislikes 0

Response

Warren Cross - ACES Power Marketing - 1,3,4,5 - WECC,Texas RE,SERC,SPP RE,RF, Group Name ACES Standards Collaborators

Answer No

Document Name

Comment

By placing those comments and guidance in the Implementation Guidance does not provide industry protection during an audit in defining 'cost effective manner'. If it is important to communicate to industry that Supply Chain Management can be managed in a 'cost effective manner', then that should be detailed in the standards. 'Cost effective manner' is an undefined term and will be different for each entity, budget and their resources. The focus should be modified to a 'risk reduction manner' or 'risk appropriate manner'.

Likes 0

Dislikes 0

Response

LeRoy Patterson - Public Utility District No. 2 of Grant County, Washington - 6

Answer No

Document Name

Comment

There is not enough clarity in the proposed language to make that assessment.

Likes 0

Dislikes 0

Response

Kara White - NRG - NRG Energy, Inc. - 3,4,5,6 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF

Answer No

Document Name

Comment

NRG is cognizant and appreciative of the flexibility provided in proposed CIP-013-1 and the draft Implementation Guidance but at this time cannot speak to whether the implementation of these requirements will be cost effective. Additional internal analysis is needed to inform NRG's evaluation as to the cost-effectiveness of the proposal.

Likes 0

Dislikes 0

Response

Shannon Mickens - Southwest Power Pool, Inc. (RTO) - 2 - SPP RE, Group Name SPP Standards Review Group

Answer No

Document Name

Comment

SPP is cognizant and appreciative of the flexibility provided in proposed CIP-013-1 and the draft Implementation Guidance but at this time cannot speak to whether the implementation of these requirements will be cost effective. Additional internal analysis is needed to inform SPP's evaluation as to the cost-effectiveness of the proposal.

Likes 0

Dislikes 0

Response

Heather Morgan - EDP Renewables North America LLC - 5

Answer No

Document Name

Comment

By asking vendors to enforce these requirements, service costs will dramatically increase which will put a further strain on the electric industry.

Likes 0

Dislikes 0

Response

Don Schmit - Nebraska Public Power District - 5

Answer

No

Document Name

Comment

This new standard will put additional burden on entities. It is going to take considerable time to implement and negotiate new contracts. It is also up to the entity to provide adequate documentation to prove compliance but it will still be based on the auditor discretion if an entity has done enough. As with similar requirements in the nuclear industry we believe that contract pricing will increase due to the Standard requirements placed on the vendors via industry and may result in reduction of vendor options.

Likes 0

Dislikes 0

Response

Nicholas Lauriat - Network and Security Technologies - 1

Answer

No

Document Name

Comment

N&ST believes the approaches to meeting CIP-013's reliability objectives described in the Implementation Guidance could easily consume scores, if not hundreds, of staff hours, with the potential to make "vendor risk assessment(s)" a significant cost component of any large-scale procurement. N&ST notes that although most of the documents referenced in the Guidance document are available for download at no charge, the Shared Assessment Program's Standardized Information Gathering (SIG) questionnaire, referenced in a footnote, must be purchased for \$6,000. The Guidance document does point out that a Responsible Entities are free to pursue different approaches to CIP-013 implementation that "better fit their situation," but provides no examples of alternatives that might be worth considering. N&ST encourages NERC and the SDT to consider how utilities with very small staffs and very limited budgets might reasonably address their CIP-013 obligations.

Likes 0

Dislikes 0

Response

Wendy Center - U.S. Bureau of Reclamation - 5

Answer No

Document Name

Comment

Reclamation's position is that the determination of "cost effectiveness" will remain subjective unless a method to determine burden is consistent across the industry.

Likes 0

Dislikes 0

Response

Alex Ybarra - Public Utility District No. 2 of Grant County, Washington - 5

Answer No

Document Name

Comment

There is not enough clarity in the proposed language to make that assessment.

Likes 0

Dislikes 0

Response

Patricia Robertson - BC Hydro and Power Authority - 1, Group Name BC Hydro

Answer No

Document Name

Comment

BC Hydro does not agree that implementing this standard will be cost effective. Costs and contract management to enforce CIP-013 on all vendors, in light of the limited authority the responsible entity would have over vendors, are anticipated to be significant. Especially, but not limited too, in situations where there is limited vendor choice for a class of product.

Likes 0

Dislikes 0

Response

Michael Haff - Seminole Electric Cooperative, Inc. - 1,3,4,5,6 - FRCC

Answer No

Document Name

Comment

The Implementation Guidance only identifies items that could be evaluated in developing a Supply Chain Cyber Security program, but does not provide an example or guidance on how to implement the program. Without this guidance, it is impossible to understand how to comply with CIP-013-1 in a cost-effective and compliant manner.

Likes 0

Dislikes 0

Response

Shawn Abrams - Santee Cooper - 1

Answer No

Document Name

Comment

Santee Cooper believes that this standard will increase the cost of purchasing products from vendors unless the standard effectively addresses the use of regional master contracts, master agreements, and piggyback agreements. If a Responsible Entity loses the ability to utilize such contracts and agreements the aggregated buying power and large purchase discounts will be lost.

Likes 0

Dislikes 0

Response

Mick Neshem - Public Utility District No. 1 of Chelan County - 3

Answer No

Document Name

Comment

CHPD believes that the language proposed in CIP-013-1 Draft 2 will result in vendor costs that outweigh, or possibly reverse, the current security and reliability of the BES. Vendors are likely to (1) significantly increase quoted implementation costs, (2) counter terms with alternate language that may not comply with the Standard, or (3) elect to no longer do business with small-to-medium sized entities due to added contractual complexity.

Vendors are not subject to enforcement and therefore should not be identified in any CIP Standards. As a result, CHPD proposes that the requirements be written in a less prescriptive manner that enables entities responsible for CIP-013 compliance to have control over the process through the use of performance-based activities.

The performance-based assessment requirements would be improved if worded in a way that allows the acceptance of any outcome reached by each Responsible Entity (e.g., "Each Responsible Entity shall <insert performance activity> and document the results of the assessment."). The intent should be to create a dialog between the entities and vendors on these topics rather than just documented within contractual language.

Likes 0

Dislikes 0

Response

Sean Bodkin - Dominion - Dominion Resources, Inc. - 6, Group Name Dominion

Answer No

Document Name

Comment

By not clarifying "cyber security risks" in R1 Part 1.1 the SDT is not providing flexibility, but rather compliance risk to Registered Entities. See our comments to questions 1 and 7, above, regarding the Implementation Guidance. As it stands, the document provides no guidance and raises additional, possible compliance risk as to interpretation of what "cyber security risks" are.

Likes 0

Dislikes 0

Response

Chad Bowman - Public Utility District No. 1 of Chelan County - 1

Answer No

Document Name

Comment

CHPD believes that the language proposed in CIP-013-1 Draft 2 will result in vendor costs that outweigh, or possibly reverse, the current security and reliability of the BES. Vendors are likely to (1) significantly increase quoted implementation costs, (2) counter terms with alternate language that may not comply with the Standard, or (3) elect to no longer do business with small-to-medium sized entities due to added contractual complexity.

Vendors are not subject to enforcement and therefore should not be identified in any CIP Standards. As a result, CHPD proposes that the requirements be written in a less prescriptive manner that enables entities responsible for CIP-013 compliance to have control over the process through the use of performance-based activities.

The performance-based assessment requirements would be improved if worded in a way that allows the acceptance of any outcome reached by each Responsible Entity (e.g., "Each Responsible Entity shall <insert performance activity> and document the results of the assessment."). The intent should be to create a dialog between the entities and vendors on these topics rather than just documented within contractual language.

Likes 0

Dislikes 0

Response

Haley Sousa - Public Utility District No. 1 of Chelan County - 5

Answer

No

Document Name

Comment

CHPD believes that the language proposed in CIP-013-1 Draft 2 will result in vendor costs that outweigh, or possibly reverse, the current security and reliability of the BES. Vendors are likely to (1) significantly increase quoted implementation costs, (2) counter terms with alternate language that may not comply with the Standard, or (3) elect to no longer do business with small-to-medium sized entities due to added contractual complexity.

Vendors are not subject to enforcement and therefore should not be identified in any CIP Standards. As a result, CHPD proposes that the requirements be written in a less prescriptive manner that enables entities responsible for CIP-013 compliance to have control over the process through the use of performance-based activities.

The performance-based assessment requirements would be improved if worded in a way that allows the acceptance of any outcome reached by each Responsible Entity (e.g., "Each Responsible Entity shall <insert performance activity> and document the results of the assessment."). The intent should be to create a dialog between the entities and vendors on these topics rather than just documented within contractual language.

Likes 0

Dislikes 0

Response

Janis Weddle - Public Utility District No. 1 of Chelan County - 6

Answer

No

Document Name

Comment

CHPD believes that the language proposed in CIP-013-1 Draft 2 will result in vendor costs that outweigh, or possibly reverse, the current security and reliability of the BES. Vendors are likely to (1) significantly increase quoted implementation costs, (2) counter terms with alternate language that may not comply with the Standard, or (3) elect to no longer do business with small-to-medium sized entities due to added contractual complexity.

Vendors are not subject to enforcement and therefore should not be identified in any CIP Standards. As a result, CHPD proposes that the requirements be written in a less prescriptive manner that enables entities responsible for CIP-013 compliance to have control over the process through the use of performance-based activities.

The performance-based assessment requirements would be improved if worded in a way that allows the acceptance of any outcome reached by each Responsible Entity (e.g., "Each Responsible Entity shall and document the results of the assessment."). The intent should be to create a dialog between the entities and vendors on these topics rather than just documented within contractual language.

Likes 0

Dislikes 0

Response

Richard Vine - California ISO - 2

Answer

Yes

Document Name

Comment

The ISO supports the comments of the Security Working Group (SWG)

Likes 0

Dislikes 0

Response

Bradley Calbick - Bradley Calbick On Behalf of: Bryan Cox, Avista - Avista Corporation, 3, 1, 5; - Bradley Calbick

Answer

Yes

Document Name

Comment

Avista agrees with the SDT's belief that the proposed CIP-013-1 and the ERO Enterprise-Endorsed Implementation Guidance provide entities with flexibility to meet the reliability objectives in a cost effective manner. However, the cost effectiveness of the standard will ultimately depend on how Responsible Entities implement the standard and how NERC and the Regional Entities enforce the requirements.

In addition to the Implementation Guidance, the policy guidance that NERC staff and the Standards Committee are drafting to clarify the principles, development, and use of the Guidelines and Technical Basis will also be very important to how Responsible Entities implement the requirements.

Likes 0

Dislikes 0

Response

Elizabeth Axson - Electric Reliability Council of Texas, Inc. - 2

Answer

Yes

Document Name

Comment

ERCOT joins the comments of the IRC.

Likes 0

Dislikes 0

Response**Franklin Lu - Snohomish County PUD No. 1 - 6**

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response**Sam Nietfeld - Public Utility District No. 1 of Snohomish County - 5**

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response**Mark Oens - Snohomish County PUD No. 1 - 3**

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Long Duong - Public Utility District No. 1 of Snohomish County - 1

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

John Martinsen - Public Utility District No. 1 of Snohomish County - 4

Answer

Yes

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Teresa Cantwell - Lower Colorado River Authority - 1

Answer

Yes

Document Name

Comment

No comment.

Likes 0

Dislikes 0

Response

Timothy Reyher - Eversource Energy - 5

Answer

Yes

Document Name

Comment

No Comment

Likes 0

Dislikes 0

Response

Linda Jacobson-Quinn - City of Farmington - 3

Answer

Yes

Document Name

Comment

FEUS supports the comments submitted by APPA

Likes 0

Dislikes 0

Response

Brian Evans-Mongeon - Utility Services, Inc. - 4

Answer

Yes

Document Name

Comment

We support the changes and believes that most aspects of CIP-013 may be achieved cost-effectively (if not necessarily cheaply), with two exceptions.

One exception is if the eventually determined audit approach to CIP-013 effectively precludes use of regional master contracts and piggyback agreements, then cyber asset procurement expenses will increase for municipal utilities, smaller entities and co-ops, and other public utilities with little or no benefit. Costs will increase for (i) the procurement process itself, because utilities will need to research specifications and develop contracts individually in place in pre-negotiated master agreements, and for (ii) each purchase, because aggregated buying power and large-purchase discounts will be lost. To minimize these risks, USI strongly urges that audit approach language for CIP-013 R2 be clarified as to clearly identify the acceptable use of master agreements rather than leave this determination up to individual regions and auditors.

The other exception is the implementation of CIP-005 R2.4 and R2.5 (methods to detect and disable remote access for vendors and vendor system) for existing BES Cyber Systems. Some legacy cyber systems are inherently structured and configured for vendor access, and reworking them to allow real-time detection and, especially, disabling of such access may prove extremely costly. At the same time, these changes may degrade the performance of these systems. USI suggests that the option for a Technical Feasibility Exception be allowed for legacy systems, or that legacy systems be granted an extended implementation period of up to five or ten years (during which such systems likely would be replaced).

| | |
|------------|---------------------------------|
| Likes 1 | Chris Gowder, N/A, Gowder Chris |
| Dislikes 0 | |

Response

David Rivera - New York Power Authority - 3

| | |
|---------------|-----|
| Answer | Yes |
|---------------|-----|

| | |
|----------------------|--|
| Document Name | |
|----------------------|--|

Comment

NYPA supports the comments submitted by Salt River Project (WECC) and NPCC.

| | |
|------------|--|
| Likes 0 | |
| Dislikes 0 | |

Response

Melanie Seader - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable

| | |
|---------------|-----|
| Answer | Yes |
|---------------|-----|

| | |
|----------------------|--|
| Document Name | |
|----------------------|--|

Comment

EI agrees with the SDT's belief that the proposed CIP-013-1 and the ERO Enterprise-Endorsed Implementation Guidance provide entities with flexibility to meet the reliability objectives in a cost effective manner. However, the cost effectiveness of the standard will ultimately depend on how Responsible Entities implement the standard and how NERC and the Regional Entities enforce the requirements.

In addition to the Implementation Guidance, the policy guidance that NERC staff and the Standards Committee are drafting to clarify the principles, development, and use of the Guidelines and Technical Basis will also be very important to how Responsible Entities implement the requirements.

| | |
|---------|--|
| Likes 0 | |
|---------|--|

Dislikes 0

Response

Alan Farmer - ACEC - NA - Not Applicable - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF

Answer Yes

Document Name

Comment

In the Draft CIP-013-1 – Cyber Security - Supply Chain Risk Management requirement R2 includes the following: “Note: Implementation of the plan does not require the Responsible Entity to renegotiate or abrogate existing contracts (including amendments to master agreements and purchase orders). Additionally, the following issues are beyond the scope of Requirement R2: (1) the actual terms and conditions of a procurement contract; and (2) vendor performance and adherence to a contract.”

With this note the Responsible Entity is basically directed to develop a plan yet it does not have to change procurement results. If you are not going to require results, there is no reason to add the costs of developing and implementing the program.

Likes 0

Dislikes 0

Response

Andrey Komissarov - Andrey Komissarov On Behalf of: Jerome Gobby, Sempra - San Diego Gas and Electric, 5, 3, 1; - Andrey Komissarov

Answer Yes

Document Name

Comment

SDG&E is not able to determine if the proposed CIP-013-1 and the draft Implementation Guidance are cost effective. Additional changes to existing contracts could incur significant cost increases.

Likes 0

Dislikes 0

Response

Lona Calderon - Salt River Project - 1,3,5,6 - WECC

Answer Yes

Document Name

Comment

SRP generally agrees that the entities can meet the reliability objectives in a cost effective manner for CIP-013-1 with two exceptions.

One exception is if the eventually determined audit approach to CIP-013 effectively precludes use of regional master contracts and piggyback agreements, then cyber asset procurement expenses will increase for municipal utilities, smaller entities and co-ops, and other public utilities with little or no benefit. Costs will increase for (i) the procurement process itself, because utilities will need to research specifications and develop contracts individually in place in pre-negotiated master agreements, and for (ii) each purchase, because aggregated buying power and large-purchase discounts will be lost. To minimize these risks, SRP strongly urges that audit approach language for CIP-013 R2 be clarified as to clearly identify the acceptable use of master agreements rather than leave this determination up to individual regions and auditors.

The other exception is the implementation of CIP-005 R2.4 and R2.5 (methods to detect and disable remote access for vendors and vendor system) for existing BCS. Some legacy cyber systems are inherently structured and configured for vendor access, and reworking them to allow real-time detection and, especially, disabling of such access may prove extremely costly. At the same time, these changes may degrade the performance of these systems. SRP suggests that the option for a Technical Feasibility Exception be allowed for legacy systems, or that legacy systems be granted an extended implementation period of up to five or ten years (during which such systems likely would be replaced).

Likes 0

Dislikes 0

Response

GINETTE LACASSE - SEATTLE CITY LIGHT - 1,3,4,5,6 - WECC, GROUP NAME SEATTLE CITY LIGHT BALLOT BODY

Answer

Yes

Document Name

2016-03_Unofficial_Comment_Form_SCL_2017-6-14 Final to NERC.docx

Comment

See attached comments.

Likes 0

Dislikes 0

Response

ANDREW GALLO - AUSTIN ENERGY - 6

Answer

Yes

Document Name

Comment

AE generally agrees the entities can meet the reliability objectives in a cost effective manner with two exceptions:

(1) One exception is if the audit approach to CIP-013 effectively precludes use of regional master contracts and "piggyback" agreements, then cyber asset procurement expenses will increase for municipal utilities, smaller entities and co-ops, and other public utilities with little or no benefit. Costs will increase for: (i) the procurement process itself, because utilities will need to research specifications and develop contracts individually in place of pre-negotiated master agreements, and (ii) each purchase, because aggregated buying power and large-purchase discounts will be lost. To minimize these

risks, AE strongly urges that audit approach language for CIP-013 R2 be clarified to clearly identify the acceptable use of master agreements rather than leave this determination up to individual regions and auditors.

(2) Implementation of CIP-005 R2.4 and R2.5 (methods to detect and disable remote access for vendors and vendor system) for existing BCS. Some legacy cyber systems are inherently structured and configured for vendor access and reworking them to allow real-time changes may degrade system performance. AE suggests the option for a Technical Feasibility Exception be allowed for legacy systems or that legacy systems be granted an extended implementation period of up to five or ten years (during which such systems likely would be replaced).

Likes 0

Dislikes 0

Response

Joe Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Jamie Cutlip, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Kevin Smith, Balancing Authority of Northern California, 1; Lori Folkman, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; Susan Oto, Sacramento Municipal Utility District, 4, 1, 5, 6, 3; - Joe Tarantino

Answer

Yes

Document Name

Comment

SMUD generally agrees that the entities can meet the reliability objectives in a cost effective manner for CIP-013-1 with two exceptions.

One exception is if the eventually determined audit approach to CIP-013 effectively precludes use of regional master contracts and piggyback agreements, then cyber asset procurement expenses will increase for municipal utilities, smaller entities and co-ops, and other public utilities with little or no benefit. Costs will increase for (i) the procurement process itself, because utilities will need to research specifications and develop contracts individually in place in pre-negotiated master agreements, and for (ii) each purchase, because aggregated buying power and large-purchase discounts will be lost. To minimize these risks, SMUD strongly urges that audit approach language for CIP-013 R2 be clarified as to clearly identify the acceptable use of master agreements rather than leave this determination up to individual regions and auditors.

The other exception is the implementation of CIP-005 R2.4 and R2.5 (methods to detect and disable remote access for vendors and vendor system) for existing BES Cyber Systems. Some legacy cyber systems are inherently structured and configured for vendor access, and reworking them to allow real-time detection and, especially, disabling of such access may prove extremely costly. At the same time, these changes may degrade the

performance of these systems. SMUD suggests that the option for a Technical Feasibility Exception be allowed for legacy systems, or that legacy systems be granted an extended implementation period of up to five or ten years (during which such systems likely would be replaced).

Likes 0

Dislikes 0

Response

Harold Sherrill - Harold Sherrill On Behalf of: Martine Blair, Sempra - San Diego Gas and Electric, 5, 3, 1; - Harold Sherrill

Answer

Yes

Document Name

Comment

SDG&E is not able to determine if the proposed CIP-013-1 and the draft Implementation Guidance are cost effective. Additional changes to existing contracts could incur significant cost increases.

Likes 0

Dislikes 0

Response

Tyson Archie - Platte River Power Authority - 5

Answer

Yes

Document Name

Comment

PRPA generally agrees that the entities can meet the reliability objectives in a cost effective manner for CIP-013-1 with two exceptions.

One exception is if the eventually determined audit approach to CIP-013 effectively precludes use of regional master contracts and piggyback agreements, then cyber asset procurement expenses will increase for municipal utilities, smaller entities and co-ops, and other public utilities with little or no benefit. Costs will increase for (i) the procurement process itself, because utilities will need to research specifications and develop contracts individually in place in pre-negotiated master agreements, and for (ii) each purchase, because aggregated buying power and large-purchase discounts will be lost. To minimize these risks, PRPA strongly urges that audit approach language for CIP-013 R2 be clarified as to clearly identify the acceptable use of master agreements rather than leave this determination up to individual regions and auditors.

The other exception is the implementation of CIP-005 R2.4 and R2.5 (methods to detect and disable remote access for vendors and vendor system) for existing BES Cyber Systems. Some legacy cyber systems are inherently structured and configured for vendor access, and reworking them to allow real-time detection and, especially, disabling of such access may prove extremely costly. At the same time, these changes may degrade the performance of these systems. PRPA suggests that the option for a Technical Feasibility Exception be allowed for legacy systems, or that legacy systems be granted an extended implementation period of up to five or ten years (during which such systems likely would be replaced).

Likes 0

Dislikes 0

Response

Allan Long - Memphis Light, Gas and Water Division - 1

Answer Yes

Document Name

Comment

We support APPA's submitted comments regarding the cost-effectiveness of CIP-013, pointing out two exceptions.

Likes 0

Dislikes 0

Response

Steven Sconce - EDF Renewable Energy - 5

Answer Yes

Document Name

Comment

No comment.

Likes 0

Dislikes 0

Response

Aaron Ghodooshim - FirstEnergy - FirstEnergy Corporation - 1,3,4,5,6 - RF, Group Name FirstEnergy Corporation

Answer Yes

Document Name

Comment

Note – Comments from EEI follow: “EEI agrees with the SDT’s belief that the proposed CIP-013-1 and the draft Implementation Guidance provide entities with flexibility to meet the reliability objectives in a cost effective manner. However, the cost effectiveness of the standard will ultimately depend on how Responsible Entities implement the standard and how NERC and the Regional Entities enforce the requirements.

In addition to the Implementation Guidance, the policy guidance that NERC staff and the Standards Committee are drafting to clarify the principles, development, and use of the Guidelines and Technical Basis will also be very important to how Responsible Entities implement the requirements. “

Likes 0

Dislikes 0

Response

Jeff Icke - Colorado Springs Utilities - 5

Answer

Yes

Document Name

Comment

Colorado Springs Utilities supports the comments provided by APPA

Likes 0

Dislikes 0

Response

Steven Rueckert - Western Electricity Coordinating Council - 10

Answer

Yes

Document Name

Comment

WECC concurs the draft of CIP-013-1 and the draft Implementation Guidance provide the flexibility sought by industry in its collective comments to the first ballot.

Likes 0

Dislikes 0

Response

Bob Thomas - Illinois Municipal Electric Agency - 4

Answer

Yes

Document Name

Comment

Illinois Municipal Electric Agency supports comments submitted by the American Public Power Association.

Likes 0

Dislikes 0

Response

Brian Millard - Tennessee Valley Authority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority

Answer Yes

Document Name

Comment

Implementing action plans to meet reliability objectives should be cost effective, but cost effectiveness is different for each entity. Reasonable expectations of what's determined as "cost effectiveness" should be considered on an individual utility/entity basis.

Likes 0

Dislikes 0

Response

Venona Greaff - Oxy - Occidental Chemical - 7, Group Name Oxy

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Glen Farmer - Avista - Avista Corporation - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Brandon Cain - 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

Rhonda Bryant - El Paso Electric Company - 3

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Pablo Onate - El Paso Electric Company - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Victor Garzon - El Paso Electric Company - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

David Francis - SRC - 1,2 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF, Group Name SRC + SWG

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Sergio Banuelos - Tri-State G and T Association, Inc. - 1,3,5 - MRO,WECC

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

David Ramkalawan - Ontario Power Generation Inc. - 5

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Michael Brytowski - Michael Brytowski On Behalf of: Donna Stephenson, Great River Energy, 5, 3, 1, 6; - Michael Brytowski

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Wesley Maurer - Lower Colorado River Authority - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Stephanie Little - Stephanie Little

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Quintin Lee - Eversource Energy - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Jesus Sammy Alcaraz - Imperial Irrigation District - 1

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Mark Holman - PJM Interconnection, L.L.C. - 2

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Allie Gavin - Allie Gavin On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Allie Gavin

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

David Gordon - Massachusetts Municipal Wholesale Electric Company - 5

| | |
|---|---|
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Russel Mountjoy - Midwest Reliability Organization - 10, Group Name MRO NSRF | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| John Williams - Tallahassee Electric (City of Tallahassee, FL) - 3 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 1 | Tallahassee Electric (City of Tallahassee, FL), 1, Langston Scott |
| Dislikes 0 | |
| Response | |
| | |
| Tho Tran - Oncor Electric Delivery - 1 - Texas RE | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |

Dislikes 0

Response

Julie Hall - Entergy - 6, Group Name Entergy/NERC Compliance

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Normande Bouffard - Hydro-Quebec Production - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Lauren Price - American Transmission Company, LLC - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Amelia Sawyer - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE

Answer Yes

| | |
|---|-----|
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Thomas Foltz - AEP - 5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Shelby Wade - PPL - Louisville Gas and Electric Co. - 1,3,5,6 - SERC,RF, Group Name PPL NERC Registered Affiliates | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Val Ridad - Silicon Valley Power - City of Santa Clara - 3,5 | |
| Answer | Yes |
| Document Name | |
| Comment | |
| | |
| Likes 0 | |
| Dislikes 0 | |

Response

Sandra Pacheco - Silicon Valley Power - City of Santa Clara - 3,5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Bill Watson - Old Dominion Electric Coop. - 3

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Randy Buswell - VELCO -Vermont Electric Power Company, Inc. - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion

Answer

Document Name

Comment

No comment

Likes 1

Chantal Mazza, N/A, Mazza Chantal

Dislikes 0

Response**Michael Shaw - Lower Colorado River Authority - 6, Group Name LCRA Compliance****Answer****Document Name****Comment**

No comment

Likes 0

Dislikes 0

Response**Scott Miller - Scott Miller On Behalf of: David Weekley, MEAG Power, 3, 5, 1; Roger Brand, MEAG Power, 3, 5, 1; Steven Grego, MEAG Power, 3, 5, 1; - Scott Miller, Group Name MEAG Power****Answer****Document Name****Comment**

MEAG supports the answers and comments of Salt River Project.

Likes 0

Dislikes 0

Response**Chris Scanlon - Exelon - 1****Answer****Document Name****Comment**

At this point of the project, it is too early to comment on cost effectiveness. Exelon does not predict that the implementation of CIP-013 will require significant investment. However, implementing tools and processes for the revisions to CIP-005 and CIP-010 may require project management oversight as well as material financial investment.

Likes 0

Dislikes 0

Response

9. Provide any additional comments for the SDT to consider, if desired.

Mark Holman - PJM Interconnection, L.L.C. - 2

Answer

Document Name

Comment

The current version of the cybersecurity supply chain standard provides a starting point for advancing controls to mitigate the risks associated with vulnerabilities in the supply chain. PJM Interconnection, LLC ("PJM") is supportive of this proposed standard as a first step consistent with the overall direction provided by the FERC.

PJM wishes to point out that the proposed supply chain standard needs to further evolve through subsequent iterations based on additional experience and incorporation of best practices. Although PJM recognizes the limits of FERC's jurisdiction as it relates to suppliers to owners and operators of the bulk electric system, any effective supply chain management standard should work to create incentives for improved cybersecurity practices up the supply chain and not just place requirements on the end user (in this case the owner or operators of bulk electric system assets). Although not evident on its face, PJM is hopeful that the proposed Standard will adequately and timely incent that goal. However, as a first step, the impact of the proposed standard, once implemented, should be analyzed with this goal in mind.

In order for supply chain risks to be substantially mitigated it will require broader cross sector engagement, broad government engagement and a significant shift in how vendors and service providers deliver products and services. Broader engagement is also required to ensure an equitable allocation of liabilities and costs. Eventually vendors and service providers will differentiate themselves by how well they manage cybersecurity risks and meet these customer needs in a fair and responsible manner.

Directionally, the proposed cybersecurity supply chain standard was intended to address a broad range of technologies as opposed to a narrower view of Energy Management and Market Management System vendors. The FERC directive similarly appeared to drive this approach. By making this choice of applying the standard to a broader range of technologies the standard, almost by necessity, starts with a more general approach with is not overly prescriptive and is grounded on the principle that organizations must establish cybersecurity supply chain processes and then execute against those processes.

The standard could have been much more prescriptive had it taken a narrower approach focusing primarily on SCADA Systems, Energy Management Systems, and Market Management Systems software solutions. Clearly the more narrow approach would have allowed for additional focus on those systems most critical to ISO/RTO operations where more proscription could have been helpful to drive more specific cybersecurity controls up the supply chain. Whether a broad approach as chosen by the drafting team or a more targeted approach is better as a starting place can be legitimately debated. In any event, either can provide a starting point for making improvements in managing the cybersecurity supply chain threats. PJM believes this effort meets that initial 'out of the gate' requirement given the need for compliance with the FERC Order in a discrete time period.

Support of the cybersecurity supply chain standard will provide an incremental step in achieving our objective of significantly improving the risks associated with vulnerabilities in the supply chain.

Likes 0

Dislikes 0

Response

Brenda Hampton - Luminant - Luminant Energy - 6, Group Name Luminant

Answer

Document Name

Comment

Luminant wants to thank the Supply Chain SDT for their diligence in reviewing the previous comments and using those comments to appropriately craft the current proposed documents. Luminant also wants to encourage the SDT to review the comments submitted during this ballot period and consider changes to the standards, as appropriate, even if these standards are passed by the ballot body.

Likes 0

Dislikes 0

Response

Linda Jacobson-Quinn - City of Farmington - 3

Answer

Document Name

Comment

FEUS supports the comments submitted by APPA

Likes 0

Dislikes 0

Response

Scott Downey - Peak Reliability - 1

Answer

Document Name

Comment

Peak Reliability believes the proposals are a step in the right direction but as written do not provide the value intended.

Likes 0

Dislikes 0

Response

Michael Shaw - Lower Colorado River Authority - 6, Group Name LCRA Compliance

Answer

Document Name

Comment

- 1) Make 'vendor' a defined term or provide GTB explanation for what is expected to be considered a vendor.
- 2) Guidelines and Technical Basis for CIP-013-3 states that it is sufficient to establish a reliable software update source once to allow automated solutions to be implemented. Does this reasoning extend to manual patching? For non-automated systems can a reliable software update source be identified once?
- 3) Please provide implementation guidance on CIP-005 and CIP-010
- 4) Make 'integrity' a defined term or provide GTB explanation for what is expected for verifying integrity of software.
- 5) Please list practical ways to validate the integrity of software.

Likes 0

Dislikes 0

Response

Wesley Maurer - Lower Colorado River Authority - 5

Answer

Document Name

Comment

Make 'vendor' a defined term or provide GTB explanation for what is expected to be considered a vendor.

Guidelines and Technical Basis for CIP-013-3 states that it is sufficient to establish a reliable software update source once to allow automated solutions to be implemented. Does this reasoning extend to manual patching? For non-automated systems can a reliable software update source be identified once?

Please provide implementation guidance on CIP-005 and CIP-010

Make 'integrity' a defined term or provide GTB explanation for what is expected for verifying integrity of software.

Please list practical ways to validate the integrity of software.

Likes 0

Dislikes 0

Response

Michael Brytowski - Michael Brytowski On Behalf of: Donna Stephenson, Great River Energy, 5, 3, 1, 6; - Michael Brytowski

Answer

Document Name

Comment

GRE appreciates the work and efforts of the SDT.

Likes 0

Dislikes 0

Response

Timothy Reyher - Eversource Energy - 5

Answer

Document Name

Comment

No Coent

Likes 0

Dislikes 0

Response

Warren Cross - ACES Power Marketing - 1,3,4,5 - WECC,Texas RE,SERC,SPP RE,RF, Group Name ACES Standards Collaborators

Answer

Document Name

Comment

: The SDT doesn't address CIP Exceptional Circumstance (CEC) in any of the Supply Chain Standards. If an event does occur that creates a CEC, it could potentially cause an entity to not be able to monitor vendor remote access verification of software integrity and authenticity.

In Order No. 829, it states, "new or modified Reliability Standard to require each affected entity to develop and implement a plan that includes security controls for supply chain management for industrial control system hardware, software, and services associated with bulk electric system operations."

Does the drafting team have confidence that only having in scope medium and high BES Cyber Assets meets the directive for "industrial control system hardware, software, and services"?

ACES recommends additional verbiage be written in the requirements to document what cyber assets that are not in scope for Supply Chain Management such as: Electronic Access Control and Monitoring Systems (EACMS), transient cyber assets, removable media and protected cyber assets (PCA).

Thank you for your time and consideration.

Likes 0

Dislikes 0

Response

Theresa Rakowsky - Puget Sound Energy, Inc. - 1

Answer

Document Name

Comment

PSE supports comments submitted by EEI.

Likes 0

Dislikes 0

Response

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name RSC no Dominion

Answer

Document Name

Comment

No comment

Likes 1

Chantal Mazza, N/A, Mazza Chantal

Dislikes 0

Response

Jason Snodgrass - Georgia Transmission Corporation - 1

Answer

| | |
|--|--|
| Document Name | |
| Comment | |
| GTC appreciates the work and efforts of the SDT. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| David Francis - SRC - 1,2 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF, Group Name SRC + SWG | |
| Answer | |
| Document Name | |
| Comment | |
| <p>The Guidelines and Technical Basis section heading Software and Authenticity, paragraph three on page 39, states: "It is not the intent of the SDT to require a verification of each source or software update at the time it is obtained. It is sufficient to establish the reliable source and software update once. This will allow automated solutions to be implemented to obtain frequent updates such as patches."</p> <p>The requirement wording suggests it applies for any change but the guidance suggests that for some changes, such as patches, it would not apply. As the requirement is auditable and the guidance is not, the guidance becomes superfluous. The Guideline also introduces significant ambiguity that is impossible to audit.</p> <p>Therefore, the IRC suggest that either the requirement wording be adjusted to allow for automated patching solutions or the Guideline be removed as it is contradictory. The IRC suggest that automated patch deployment solutions should be able to verify the identity and integrity of the patch. Therefore the best solution is to remove the guideline.</p> | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Teresa Cantwell - Lower Colorado River Authority - 1 | |
| Answer | |
| Document Name | |
| Comment | |
| 1. Make 'vendor' a defined term or provide GTB explanation for what is expected to be considered a vendor. | |

2. Guidelines and Technical Basis for CIP-013-3 states that it is sufficient to establish a reliable software update source once to allow automated solutions to be implemented. Does this reasoning extend to manual patching? For non-automated systems, can a reliable software update source be identified once?

3. Please provide implementation guidance on CIP-005 and CIP-010.

4. Make 'integrity' a defined term or provide GTB explanation for what is expected for verifying integrity of software.

5. Please list practical ways to validate the integrity of software.

Likes 0

Dislikes 0

Response

William Harris - Foundation for Resilient Societies - 8

Answer

Document Name

Resilient Societies Comments - NERC Cyber Supply Chain Risk Management 2016-03.docx

Comment

See combined comments of the Foundation for Resilient Societies in the attached file.

Likes 0

Dislikes 0

Response

John Martinsen - Public Utility District No. 1 of Snohomish County - 4

Answer

Document Name

Comment

Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members.

Likes 0

Dislikes 0

Response

Long Duong - Public Utility District No. 1 of Snohomish County - 1

| | |
|--|--|
| Answer | |
| Document Name | |
| Comment | |
| Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Mark Oens - Snohomish County PUD No. 1 - 3 | |
| Answer | |
| Document Name | |
| Comment | |
| Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Sam Nietfeld - Public Utility District No. 1 of Snohomish County - 5 | |
| Answer | |
| Document Name | |
| Comment | |
| Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Franklin Lu - Snohomish County PUD No. 1 - 6 | |

| | |
|--|--|
| Answer | |
| Document Name | |
| Comment | |
| Public Utility District No. 1 of Snohomish County supports the comments of Seattle City Light, Salt River Project and New York Power Authority – LPPC members. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Elizabeth Axson - Electric Reliability Council of Texas, Inc. - 2 | |
| Answer | |
| Document Name | |
| Comment | |
| ERCOT joins the comments of the IRC and offers the following additional comment: | |
| The term “vendor” that is used repeatedly in the rationale boxes requires further clarification or revision. “A <i>vendor</i> , as used in the standard, may include: (i) developers or manufacturers of information systems, system components, or information system services; (ii) product resellers; or (iii) system integrators.” | |
| Services cannot be manufactured, and the provision of services is already addressed through item (ii). ERCOT suggests the following revision: “A <i>vendor</i> , as used in the standard, may include: (i) developers or manufacturers of information systems or components; (ii) <i>providers of information systems services</i> ; (iii) product resellers; or (iv) system integrators.” | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| Richard Vine - California ISO - 2 | |
| Answer | |
| Document Name | |
| Comment | |
| The ISO supports the comments of the Security Working Group (SWG) | |

Likes 0

Dislikes 0

Response

Brian Millard - Tennessee Valley Authority - 1,3,5,6 - SERC, Group Name Tennessee Valley Authority

Answer

Document Name

Comment

*Regarding requirement R2, measure M2, suggest consider revising language to state "...demonstrate use of **or compliance with** the supply chain cyber security risk management plan."*

Likes 0

Dislikes 0

Response

Janis Weddle - Public Utility District No. 1 of Chelan County - 6

Answer

Document Name

Comment

CHPD sees value in broader engagement by other governmental authorities, including potentially the Department of Homeland Security and the Department of Energy, in order to address electric sector supply chain security in a manner that fully engages responsible suppliers with whom we do business. That effort could lead to an articulated set of common practices or protocols to which entities in the electric supply chain may subscribe, and upon which the electric sector may rely to improve the security of the supply chain.

Likes 0

Dislikes 0

Response

Haley Sousa - Public Utility District No. 1 of Chelan County - 5

Answer

Document Name

Comment

CHPD sees value in broader engagement by other governmental authorities, including potentially the Department of Homeland Security and the Department of Energy, in order to address electric sector supply chain security in a manner that fully engages responsible suppliers with whom we do business. That effort could lead to an articulated set of common practices or protocols to which entities in the electric supply chain may subscribe, and upon which the electric sector may rely to improve the security of the supply chain.

Likes 0

Dislikes 0

Response

Chad Bowman - Public Utility District No. 1 of Chelan County - 1

Answer

Document Name

Comment

CHPD sees value in broader engagement by other governmental authorities, including potentially the Department of Homeland Security and the Department of Energy, in order to address electric sector supply chain security in a manner that fully engages responsible suppliers with whom we do business. That effort could lead to an articulated set of common practices or protocols to which entities in the electric supply chain may subscribe, and upon which the electric sector may rely to improve the security of the supply chain.

Likes 0

Dislikes 0

Response

Sean Bodkin - Dominion - Dominion Resources, Inc. - 6, Group Name Dominion

Answer

Document Name

Comment

Dominion recommends the following changes to the RSAWs:

- CIP-005-6, R2, Parts 2.4 and 2.5
 - Remove the word “all” from the “Compliance Assessment Approach sections.
- CIP-010-3, R1, Part 1.6
 - Remove the words “for each” from the “Compliance Assessment Approach section, rows 2 and 4.

- CIP-013-1, R1

- Remove the word “controls”. The word “processes” is now in uses in the most current draft of CIP-013-1.

Likes 0

Dislikes 0

Response

Mick Neshem - Public Utility District No. 1 of Chelan County - 3

Answer

Document Name

Comment

CHPD sees value in broader engagement by other governmental authorities, including potentially the Department of Homeland Security and the Department of Energy, in order to address electric sector supply chain security in a manner that fully engages responsible suppliers with whom we do business. That effort could lead to an articulated set of common practices or protocols to which entities in the electric supply chain may subscribe, and upon which the electric sector may rely to improve the security of the supply chain.

Likes 0

Dislikes 0

Response

Patrick Hughes - National Electrical Manufacturers Association - NA - Not Applicable - NA - Not Applicable

Answer

Document Name

NEMA Comments on NERC Supply Chain Risk Management 2017-06-12.pdf

Comment

On behalf of the National Electrical Manufacturers Association (NEMA)—a trade association and standards developing organization with nearly 350 member companies that manufacture a diverse set of products used in the generation, transmission, distribution, and end-use of electricity—and on behalf of the NEMA Grid Modernization Leadership Council and the NEMA Cybersecurity Committee, I wish to submit for your reference “CPSP 1-2015: Supply Chain Best Practices,” which describes industry best practices for manufacturers to follow regarding cybersecurity supply chain management.

“Supply Chain Best Practices” identifies guidelines that electrical equipment manufacturers can implement during product development to minimize the possibility that bugs, malware, viruses or other exploits can be used can be used to negatively impact product operation. It addresses United States supply chain integrity through four phases of a product’s life cycle: manufacturing, delivery, operation, and end-of-life. The report (attached) is available for public download at: <http://www.nema.org/Standards/Pages/Supply-Chain-Best-Practices.aspx>.

The National Electrical Manufacturers Association and its members understand that a secure supply chain is essential to a secure grid and that cybersecurity aspects should be built into, not bolted onto, manufacturers' products. They also understand that managing cybersecurity supply chain risk requires a collaborative effort and open lines of communication among electric utility companies and the manufacturers of critical electric grid systems and components—both hardware and software. NEMA looks forward to working with and being a resource for NERC, utilities, and other interested stakeholders in addressing supply chain risks and concerns within the energy sector.

Should you have any questions, please contact Patrick Hughes, Senior Director of Government Relations and Strategic Initiatives, at 703-841-3205 or patrick.hughes@nema.org.

Respectfully,

Kyle Pitsor

Vice President, Government Relations

Likes 0

Dislikes 0

Response

Steven Sconce - EDF Renewable Energy - 5

Answer

Document Name

Comment

No comment.

Likes 0

Dislikes 0

Response

Louis Guidry - Louis Guidry On Behalf of: John Lindsey, Cleco Corporation, 6, 5, 3, 1; Michelle Corley, Cleco Corporation, 6, 5, 3, 1; Robert Hirschak, Cleco Corporation, 6, 5, 3, 1; Stephanie Huffman, Cleco Corporation, 6, 5, 3, 1; - Louis Guidry

Answer

Document Name

Comment

The Guidance and Technical Basis section is empty.

Likes 0

Dislikes 0

Response

Thomas Foltz - AEP - 5

Answer

Document Name

Comment

AEP urges the SDT to consider FERC Order 706 paragraph 355 which requires a policy for each of the cyber security topical areas. CIP-003 R1 should require a policy for supply chain cyber security.

Likes 0

Dislikes 0

Response

Tyson Archie - Platte River Power Authority - 5

Answer

Document Name

Comment

Platte River Power Authority also supports the comments submitted by the American Public Power Association (APPA)

Likes 0

Dislikes 0

Response

Amelia Sawyer - CenterPoint Energy Houston Electric, LLC - 1 - Texas RE

Answer

Document Name

Comment

CenterPoint Energy appreciates the Standard Drafting Team's thorough consideration of comments. Although some concerns with implementation remain, CenterPoint Energy believes that the revisions have made the draft Standard focused and risk-based. CenterPoint Energy also commends the coordination with the CIP Modifications team to place certain requirements appropriately in the body of the existing CIP Standards. Thank you for your efforts.

Likes 0

Dislikes 0

Response

Andrew Gallo - Austin Energy - 6

Answer

Document Name

Comment

None.

Likes 0

Dislikes 0

Response

Ginette Lacasse - Seattle City Light - 1,3,4,5,6 - WECC, Group Name Seattle City Light Ballot Body

Answer

Document Name

2016-03_Unofficial_Comment_Form_SCL_2017-6-14 Final to NERC.docx

Comment

None.

Likes 0

Dislikes 0

Response

Normande Bouffard - Hydro-Qu?bec Production - 5

Answer

Document Name

Comment

No comment

Likes 0

Dislikes 0

Response

Lona Calderon - Salt River Project - 1,3,5,6 - WECC

Answer

Document Name

Comment

None.

Likes 0

Dislikes 0

Response

Alan Farmer - ACEC - NA - Not Applicable - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF

Answer

Document Name

Comment

The American Council of Engineering Companies (ACEC) -the business association of the nation's engineering industry - wants to convey the industry's perspectives and concerns over the development of this new cyber security supply chain rule mandated by the Federal Energy Regulatory Commission (FERC).

ACEC members firms, numbering more than 5,000 and representing over 500,000 employees throughout the country, are engaged in a wide range of engineering work that propel the nation's economy, and enhance and safeguard America's quality of life. Council members are actively involved in every aspect of the energy marketplace. Supply chain cyber security is of growing concern to all our members.

ACEC is in agreement with most of the comments of the owners, operators, vendors and suppliers that have formally participated in this Standard development.

Likes 0

Dislikes 0

Response

Barry Lawson - National Rural Electric Cooperative Association - 4

| | |
|--|--|
| Answer | |
| Document Name | |
| Comment | |
| NRECA appreciates the work and efforts of the SDT. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Melanie Seader - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable | |
| Answer | |
| Document Name | |
| Comment | |
| EEI greatly appreciates the work of the SDT and NERC in reviewing and addressing stakeholder feedback from the first ballot. EEI supports the currently posted drafts and ask that the SDT look to our members' individual comments for further suggestions for improvement. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| David Rivera - New York Power Authority - 3 | |
| Answer | |
| Document Name | |
| Comment | |
| None. | |
| Likes 0 | |
| Dislikes 0 | |
| Response | |
| | |
| Russel Mountjoy - Midwest Reliability Organization - 10, Group Name MRO NSRF | |
| Answer | |
| Document Name | |

Comment

Please note that the NSRF has concerns with the Webinar and Guidance going outside of the scope of the proposed Requirements. All applicable entities will need to satisfy the Requirements once approved by FERC per FERC Order 693, setcion253. Regardless of what the Webinar or Guideline states.

Likes 0

Dislikes 0

Response**Chris Scanlon - Exelon - 1****Answer****Document Name****Comment**

None.

Likes 0

Dislikes 0

Response**Brian Evans-Mongeon - Utility Services, Inc. - 4****Answer****Document Name****Comment**

No comment

Likes 0

Dislikes 0

Response**Guy Andrews - Georgia System Operations Corporation - 4****Answer****Document Name****Comment**

GSOC appreciates the work and efforts of the SDT.

Likes 0

Dislikes 0

Response

Scott Miller - Scott Miller On Behalf of: David Weekley, MEAG Power, 3, 5, 1; Roger Brand, MEAG Power, 3, 5, 1; Steven Grego, MEAG Power, 3, 5, 1; - Scott Miller, Group Name MEAG Power

Answer

Document Name

Comment

MEAG supports the answers and comments of Salt River Project.

Likes 0

Dislikes 0

Response

Kara White - NRG - NRG Energy, Inc. - 3,4,5,6 - FRCC,MRO,WECC,Texas RE,NPCC,SERC,SPP RE,RF

Answer

Document Name

Comment

No Comment

Likes 0

Dislikes 0

Response

Additional comments received from Seattle City Light

1. The SDT has revised requirements for developing and implementing supply chain cyber security risk management plans (CIP-013-1 Requirements R1 – R3) in response to stakeholder comments. Do you agree with the proposed requirements? If you do not agree, or if you agree but have comments or suggestions for the proposed requirements, please provide your recommendation and explanation.

Yes

No

Comments: *Note that for all comments (1-9) written in blue text come directly from APPA and/or LPPC comments. Any comments in black are City Light's.*

Seattle City Light continues to be a strong supporter of efforts to ensure the security of the Bulk Electric System and appreciates the time and effort that the SDT has put into considering industry feedback and incorporating it into the current drafts of CIP-005, CIP-010 and CIP-013.

Seattle agrees with limiting the requirement to high and medium assets only.

R1: Seattle generally agrees with the proposed Requirement 1 but is concerned about compliance obligations for procurement activities associated with multi-party wide-area contracts, master agreements and piggyback agreements. An exception, comparable to a CIP Exceptional Circumstance, might be included in the standard for these kinds of procurement activities. Alternatively, concerns about how different type of contracts—multi-party contracts, master agreements, evergreen agreements, piggyback contracts, long-term service agreements, etc, etc, etc—may or may not comply might be addressed by re-positioning CIP-013 as a performance-based Standard, with a focus on managing specific aspects of vendor security rather than particular contracting practices.

Our reasoning is that there are means other than vendor contract negotiations, contract language, and procurement processes to address and (attempt to) achieve the protections identified in R1.2. It is immaterial how these protections are pursued. Focusing vendor security plans and audit approaches on contracts and procurement (even if specific contract terms are not in scope) limits flexibility, is unnecessarily prescriptive, and does not reflect performance-based principles. As such we suggest that R1.2 be revised as follows:

1.2. One or more process(es) for its newly procured BES Cyber Systems that address the following elements, as applicable:

As explanation for the revisions, underlined words are added, and “newly” is intended to mean ‘obtained after the implementation of CIP-013.’ Also, the term “elements,” as shown above, is added to more clearly align with the VSLs for this requirement.

At the same time guidance associated with the “Rationale for R1,” “Rationale for R2,” and the separate Implementation Guidance document should be revised to reflect the change to a performance-based requirement in which contract terms and contract negotiations play no necessary function in vendor security plans and audit approaches. Contract terms might be used by an entity in their vendor security plans and/or as evidence of performance, but there should be no expectation by auditors or subtext in the Standard or Implementation Guidance that anything having to do with contracts or procurement processes is required. There should be no expectation of what might or should be included within Requests for Proposals, no expectation of when contracts might or should be renegotiated, no expectations of what contract terms might or should be included or requested, and no expectations of what terms might or should be found in a prudent and proper contract. Ultimately there should be no expectation that CIP-013 R1.2 protections be achieved through the contracting process. Consistent with performance-based standard principles the objective in CIP-013 and in entity vendor security plans should be on achieving each protection (as feasible), not on the means by which it is achieved (or attempted to be achieved).

In the absence of such changes, we request substantial additional clarification about how, without contract terms and contract negotiations being auditable, performance of R2 implementation will be audited and assessed. In particular for state and regional master agreements, piggyback contracts, evergreen agreements, and the like.

Looking to specific details of CIP-013 requirements, Seattle requests re-wording of R1 parts 1.2.1 and 1.2.4 to better understand what is expected. These parts appear to be duplicative. The endorsed Guidance does not adequately distinguish between the two parts. One interpretation is that part 1.2.1 is for products/services and that part 1.2.4 is for vulnerabilities in the product. It is not clear if these parts expect information sharing at the time of procurement or if information sharing will be on-going?

In R1 parts 1.2.1 and 1.2.2, the term “vendor-identified incident” is unclear. It could mean incidents that were identified by another party, specific to the products of a specific vendor, or incidents identified by the vendor. Seattle suggests changing “identified” in the phrase, to “acknowledged” or “confirmed” to ensure clarity.

Definition of vendor is not a NERC defined term. The term “vendor” is also used in the proposed CIP-005.

Seattle believes the SDT should provide guidance regarding the use of the term “vendor.” If “Vendor” is not defined by NERC, the Guidance should recommend that entities include their definition of “vendor” in their plan(s).

Seattle recommends removing those items (CIP-013 R1 parts 1.2.5 and 1.2.6) covered in CIP-005 and CIP-010 from CIP-013 to avoid duplication. The revised CIP-013 parts 1.2.5 and 1.2.6 appear to apply to software source and identity verification (now required “when the method to do so is available” by CIP-010) and determining active vendor remote access sessions (now required by CIP-005). Having CIP-013 parts that require entities to perform the underlying function and to take those functions into account during the procurement process is needless duplication that does not increase security or reliability and could result in compliance “double jeopardy.”

R2: Seattle agrees with the requirement to implement the supply chain cyber security risk management plan as outlined in Requirement 1.

As discussed above, Seattle urges the significant additional guidance, preferably centered on performance-based principles, about expected compliance practices and how implementation will be audited. In particular for state and regional master agreements, piggyback contracts, evergreen agreements, and the like.

Finally, the Compliance and/or Implementation Guidance should make clear that, when evidence demonstrates that all items expressly identified in CIP-013, R1 are contained in a Supply Chain Cyber Security Management Plan or Plans, and are implemented pursuant to R2, entities will not be found out of compliance. More specifically, entities should not be subjected to CIP-013 noncompliance findings resulting from a difference of opinion concerning security adequacy.

R3: Seattle agrees that a 15-month review period is appropriate to review the supply chain cyber security risk management plan in Requirement 1.

Additionally, Seattle proposes that the regional entities voluntarily assess CIP-013 programs for entities who have audits in the period between standard approval and the effective date. This is similar to when the regional entities performed transition period audits of CIP v5 programs.

2. The SDT developed proposed CIP-005-6 Requirement R2 Parts 2.4 and 2.5 to address the Order No. 829 directives for controls on vendor-initiated remote access to BES Cyber Systems covering both user-initiated and machine-to-machine vendor remote access. The SDT followed an approach recommended by stakeholders during the initial posting of CIP-013-1. Do you agree with proposed revisions in CIP-005-6? If you do not agree, or if you agree but have comments or suggestions, please provide your recommendation and explanation.

Yes

No

Comments: *Note that comments identified in blue text come directly from APPA and/or LPPC comments.*

The proposed CIP-005-6 uses the term, “vendor.” The definition of vendor is not a NERC defined term. Seattle City Light believes the SDT should provide guidance regarding the use of the term “vendor.” If “Vendor” is not defined by NERC, the Guidance should recommend that Entities include their definition of “vendor” in their plan(s).

Seattle agrees with R2 Part 2.4 but requests clarification of the term “determining.”

Seattle generally agrees with Proposed R2 Part 2.5 but requests revisions to the Rationale for R2. The last sentence of paragraph 2 of the rationale states the objective “is for entities to have the ability to rapidly disable active remote access sessions...” The Responsible Entity may not have the capability to disable access during an “active” remote access session. Seattle requests changing the language to “upon detected unauthorized activity.”

Guideline & Technical Basis (GTB) for R2 should be included in this revision. Supplemental materials may be out of date – see page 21 of 24 in the posted redline version. Please Include reference to FERC Order 829 for parts 2.4 and 2.5.

The SDT should consider adding a CIP Exceptional Circumstance clause to R2 parts 2.4 and 2.5

3. The SDT developed proposed CIP-010-3 Requirement R1 Part 1.6 to address the Order No. 829 directive for entities to address verification of software integrity and authenticity in the BES Cyber System environment (P 48). The SDT followed an approach recommended by stakeholders during the initial posting of CIP-013-1. Do you agree with proposed revisions in CIP-010-3? If you do not agree, or if you agree but have comments or suggestions for the proposed requirement, please provide your recommendation and explanation.

Yes

No

Comments: *Note that comments identified in blue text come directly from APPA and/or LPPC comments.*

Seattle City Light agrees this requirement belongs in CIP-010 R1. Seattle generally agrees with Proposed R1 Part 1.6, but request the following items be addressed by the SDT:

- Seattle recommends the Guidelines and Technical Basis section is updated to reflect current information.
 - The requirement states “For a change that deviates from the existing baseline configuration associated with baseline items in Parts 1.1.1, 1.1.2, and 1.1.5...,” indicating the authenticity and integrity of the specified parts need to be verified each time there is a change to a baseline for those parts. The proposed requirement would possibly involve entities duplicating effort for every case for which such

verification had to be undertaken (i.e., in the cases of multiple installations of software across many applicable Cyber Assets). This does not seem consistent with the intent of the protection and could present an undue compliance burden without providing the intended protection. We believe that the existing statement in the GTB provides clarity on this issue and request that it not be removed. From the GTB: “It is not the intent of the SDT to require a verification of each source or software update at the time it is obtained. It is sufficient to establish the reliable source and software update once. This will allow automated solutions to be implemented to obtain frequent updates such as patches.”

- Seattle also recommends the language of the requirement be re-worded to reflect the intent of the GTB, as an auditor audits to the requirement, not the GTB. Doing a verification of authenticity and integrity for each change to the baseline for the specified parts would be tedious and require entities to acquire additional resources to perform the work.
- There is no guidance on how to verify the identity (authenticity). Performing this verification could be difficult if the software/patch comes from a third-party tool. Guidance on how this can be done needs to be made available to entities in order to perform an evaluation of the work and resources involved to achieve this requirement. Hashing was given as an example during an industry webinar, but this is not realistic for each type of system.
- Additional examples of acceptable measures should to be listed, in particular for R1.6.1 and R1.6.2. Additionally, Seattle requests examples of acceptable evidence when there is not a method available to verify the identity of the software source.
- While Seattle supports these changes, clarification is required about how new R1.6 applies to entirely new BES Cyber Systems (BCS), i.e., BCS that are newly implemented, have not previously had a baseline, and thus do not have an existing baseline for a change to deviate from. We expect that R1.6 is intended to apply to new BCS as well as to existing BCS, but as written the requirement does not. Please clarify to avoid implementation confusion and minimize audit challenges.

4. The SDT removed low-impact BES Cyber Systems from the applicability in CIP-013-1 and is not proposing any new requirements for these cyber systems. The SDT believes that the proposed applicability to high and medium impact BES Cyber Systems appropriately focuses industry resources on supply chain cyber security risk management for industrial control system hardware, software, and computing and networking services associated with BES operations, as specified in Order No. 829. Do you agree with the SDT’s removal of low impact BES Cyber Systems from CIP-013-1? If you do not agree, or if you agree but have comments or suggestions, please provide your recommendation and explanation.

Yes

No

Comments: Seattle City Light agrees with the removal of low-impact BES Cyber Systems from CIP-013-1 and agrees that the current standard as written appropriately addresses the Commission’s concerns as specified in Order No. 829. Among other things, the Order requests a risk-based approach. Application of Standard CIP-002 is an established, Commission-approved approach to categorize a utility’s BES Cyber Systems into high, medium, and low risk classifications. Application of this established risk-based approach to cyber asset procurement for electric utilities is natural, appropriate, and consistent with the guiding CIP philosophy, stated in Section 6 of each CIP Standard, that each Standard “exists as part of a suite of CIP Standards related to cyber security, which require the initial identification and categorization of BES Cyber Systems and require a minimum level of organizational, operational, and procedural controls to mitigate risk to BES Cyber Systems.”

Furthermore, Seattle believes that for entities that have a mixture of High, Medium and Low assets, the Low assets would inherently benefit from the additional requirements of Medium and High requirements as a matter of normal business practices. Additionally, many Contracts and Master Agreements are developed for all products and services purchased from a vendor. For Entities that have Low assets only, there would not be additional requirements based on CIP-002 risk based approach, as appropriate to the low BES risk presented by these entities.

Seattle believes that including Lows will require substantial resources by each Responsible Entity to identify and maintain an inventory list of these items, beyond the benefit provided by additional controls. Existing controls inherent to CIP-003 and previous CIP Standards reduce the risk associated with Lows.

5. The SDT revised the Implementation Plan in response to stakeholder comments. Do you agree with the Implementation Plan for the requirements in Project 2016-03? If you do not agree, or if you agree but have comments or suggestions for the Implementation Plan, please provide your recommendation and explanation.

Yes

No

Comments: *Note that comments identified in blue text come directly from APPA and/or LPPC comments.*

Seattle City Light generally agrees with an 18-month implementation plan but, would prefer a 24-month implementation plan. Seattle feels that a 24-month timeframe is more appropriate and gives the entity additional time to align budgets and develop processes with vendors and suppliers.

Seattle, in line with our recommendation to move CIP-013 to a performance-based standard as discussed in Question 1 above, also recommends deleting discussion of contracts and contract dates from implementation guidance, and focusing the guidance on BES Cyber Assets procured subsequent to the implementation date of the standard. If performance-based principles are not adopted, Seattle at least asks for clarity to change this General Consideration from:

Contracts entering the Responsible Entity's procurement process (e.g. through Request for Proposals) on or after the effective date are within scope of CIP-013-1. Contract effective date, commencement date, or other activation dates specified in the contract do not determine whether the contract is within scope of CIP-013-1.

To:

Supply Chain Risk Management plan must be used by appropriate procurement processes that begin on or after the implementation date. (Also make corresponding change to the associated note in CIP-013 R2.)

Further, Seattle requests clarification on if/when existing contracts, master contracts, or long-term maintenance agreements that may be re-opened for renegotiation or later put in use (e.g., a state master contract negotiated prior to the CIP-013 implementation date but not actually used by a utility until after CIP-013 implementation date), come into the scope of CIP-013. Seattle notes that shifting to a performance-based Standard, focused on specific vendor protections and not the means that such protections are achieved (i.e., contracts) would minimize the explanations required about such matters.

The Implementation Plan does not handle unplanned changes such as newly identified IROLs or registration changes, etc, that may bring an entity suddenly into scope for CIP-013, CIP-005 R2.4-2.5, and/or CIP-010 R1.6. Seattle therefore requests that the Implementation Plan be modified to

address, in a reasonable way, how entities come into compliance if, due to changes, they newly meet applicability at some time after the effective date of the standards.

6. The SDT revised the Violation Severity Levels (VSLs) for requirements in CIP-013-1, CIP-005-6, and CIP-010-3. Do you agree with the Violation Risk Factors (VRFs) and Violation Severity Levels (VSLs) for the proposed requirements? If you do not agree, or if you agree but have comments or suggestions for the VRFs and VSLs, please provide your recommendation and explanation.

Yes

No

Comments: *Note that comments identified in blue text come directly from APPA and/or LPPC comments.*

Seattle City Light agrees with the VRFs and VSLs for CIP-013. As discussed above under Question 1, Seattle requests that the term “elements” be included in CIP-013 R1.2 to clearly align with the VSLs for this requirement.

For CIP-010, Seattle does not find that the VSL covers failures to implement the process. It therefore does not include all possible combinations of violation. Consequently, we request that there be an identified severity level for failure to implement and lower severity levels when a single aspect of the requirements is missing.

For CIP-005, Seattle believes that the VRFs and VSLs should be updated to reflect the same general structure used in CIP-010. The VSL for CIP-005 results in a “Severe” penalty if the entity did not have a method to determine and did not have a method to disable. Seattle would prefer a “High” VSL penalty if the entity has a process to determine but does not have a process to disable, and vice-versa if the entity did not have a process to determine but does have a process to disable.

7. The SDT developed draft Implementation Guidance for CIP-013 to provide examples of how a Responsible Entity could comply with the requirements. The draft Implementation Guidance does not prescribe the only approach to compliance. Rather, it describes some approaches the SDT believes would be effective ways to comply with the standard. See NERC’s [Compliance Guidance policy](#) for information on Implementation Guidance. Do you agree with the example approaches in the draft Implementation Guidance? If you do not agree, or if you agree but have comments or suggestions for the draft Implementation Guidance, please provide your recommendation and explanation.

Yes

No

Comments: *Note that comments identified in blue text come directly from APPA and/or LPPC comments.*

Seattle City Light generally agrees with the Implementation Guidance for CIP-013 and feels that this is a promising new approach but is uncertain if the approach best provides assurance and guidance about these new Standards in the absence of the “Guidance and Technical Basis” sections in each Standard and the intentional flexibility of CIP-013 in particular. Seattle is concerned about the possibilities that NERC and the Regions may withdraw previously-granted endorsement should FERC request revisions to the Standard. As such, Seattle would prefer to see the new “Implementation Guidance Document” supplemented with “Guidance and Technical Basis” sections in each Standard, including for CIP-005-6 R2.4 and R2.5 and for CIP-010-3 R1.6.

As discussed above, “vendor” is not a NERC defined term. The term “vendor” is also used in the proposed CIP-005. Seattle believes the SDT should provide guidance regarding the use of the term “vendor.” If “vendor” is not defined by NERC, the Guidance should recommend that entities include their definition of “vendor” in their plan(s).

Neither of the bullets for R3 in the Implementation Guidance sufficiently explain compliance needs because both bullets only deal with plan review and not approval, both of which are necessary for compliance. Therefore, Seattle recommends changing:

”Below are some examples of approaches to comply with this requirement:“

to

“Below is an example of an approach to comply with the review requirement required by: “

In addition, we recommend deleting the following guidance language from the second main bullet, because it is beyond the Requirement and introduced activities that are not explicitly required:

“Upon approval of changes to the supply chain cyber security risk management plan(s), the CIP Senior Manager or approved delegate should provide appropriate communications to the affected organizations or individuals. Additionally, communications or training material may be developed to ensure any organizational areas affected by revisions are informed.”

8. The SDT believes proposed CIP-013-1 and the draft Implementation Guidance provide entities with flexibility to meet the reliability objectives in a cost effective manner. Do you agree? If you do not agree, or if you agree but have suggestions for improvement to enable additional cost effective approaches, please provide your recommendation and, if appropriate, technical justification.

Yes

No

Comments: *Note that comments identified in blue text come directly from APPA and/or LPPC comments.*

Seattle City Light generally agrees that the entities can meet the reliability objectives in a cost effective manner for CIP-013-1 with two exceptions.

One exception is if that if, due to uncertainty, anticipated audit risk, an eventually established audit approach, or any other reason, Standard CIP-013 precludes or has a chilling effect on use of regional master contracts and piggyback agreements, then cyber asset procurement expenses will increase for municipal utilities, smaller entities and co-ops, and other publics with little or no benefit. Costs will increase for (i) the procurement process itself, because utilities will need to research specifications and develop contracts individually to replace pre-negotiated master agreements, and for (ii) each purchase, because aggregated buying power and large-purchase discounts will be lost. To minimize these risks, Seattle strongly urges that audit approach language for CIP-013 R2 be clarified in advance to clearly identify the acceptable use of master agreements rather than leave this determination up to individual regions, auditors, time, and chance.

The other exception is the implementation of CIP-005 R2.4 and R2.5 (methods to detect and disable remote access for vendors and vendor system) for existing BES Cyber Systems. Some legacy cyber systems are inherently structured and configured for vendor access, and reworking them to allow real-time detection and, especially, disabling of such access may prove extremely costly. At the same time, these changes may degrade the performance of these systems. Seattle suggests that the option for a Technical Feasibility Exception be allowed for legacy systems, or

alternatively that legacy systems be granted an extended implementation period of up to five or ten years (during which such systems likely would be replaced).

9. Provide any additional comments for the SDT to consider, if desired.

Comments: None

THE FOUNDATION FOR RESILIENT SOCIETIES COMMENTS AS FOLLOWS ON PROPOSED STANDARD

2016-03, CYBER SUPPLY CHAIN RISK MANAGEMENT, CIP-005-6, CIP-010-3, AND CIP-013-1:

Filed with NERC June 15, 2017

1. These NERC/SDT attempts to produce a CIP standard for supply chain vulnerabilities fall short in an extreme threat environment. Adversaries' efforts against the electric grid and other civil infrastructure show disdain for U.S. defenses and deep commitment to using Information Operations (including cyber warfare) against the nation. The Bulk Electric System (BES) is a major target—this motivates development of strong capabilities for cyberattack. Adversaries understand full well the dependencies of social and national security institutions and all other critical infrastructures on electric power.
2. There is insufficient substance to the draft standard, other than the usual CIP generalized statements of planning, implementation, and periodic reviews that provide *pro forma* response to FERC Order No. 829. In its 9-1 vote to reject the first draft, the industry sent a clear message to NERC and FERC: the standard requirements are, at present, inadequately defined and therefore the feasibility of cost recovery is hard to judge.
3. Any sincere attempt at compliance with the draft standard requirements by responsible entities will incur high costs with uncertain benefit to the survivability of the BES. The Standard Drafting Team appears to minimize the complexity of the 2014 Russian penetrations of the U.S. BES, its sophisticated multi-layered, years-earlier penetration of vendor's control systems, phishing efforts, firmware modifications, and extensive use of IT vendors' vulnerabilities in operating, communications and networking, and database systems. The draft lacks good protective steps on these vulnerabilities and is therefore inadequate for mitigating risk--especially given the increasing nature of the Russian Havex and BlackEnergy threats evidenced in the follow-on attacks in the Ukraine Grid in 2015 and 2016. Note the recent revelation by ESET and DRAGOS of CRASH OVERRIDE malware (associated with the 2016 Ukraine attack) with specific and flexible targeting of "low impact" industrial control systems (ICS). Note also the increasing threat from Distributed Denial of Service (DDoS) IoT and ransomware attacks. To expect several thousand utilities to individually and separately determine self-protective actions under the draft standard is unrealistic. Economies of scale in protection are needed.
4. Exempting "Low Impact" cyber systems leaves vulnerabilities. Also, as Resilient Societies has pointed out on FERC dockets, the exclusion from CIP Standards for all communications and networks between "Electronic Security Perimeters," together with direct internet connectivity to many so-called "low impact" cyber assets, leaves literally thousands of unsecured channels for malware implantation.
5. Stringent application whitelisting/blacklisting and selective third party certification steps, in conjunction with a national deterrence policy, are needed to enhance the minimal-protection from current CIP standards.

6. Ambiguities in standard requirements result in a lack of auditability, as noted by many other commenters.

7. In the short-term, a more practical NERC initiative could be to support a FERC rulemaking to require Bulk Electric System-jurisdictional entities to detect, report, mitigate and remove malware. State PUCs should likewise support a malware mitigation initiative for distribution utilities.

William R. Harris

Foundation for Resilient Societies, Inc.

Additional comments received from Independent Electric System Operator

1. The SDT has revised requirements for developing and implementing supply chain cyber security risk management plans (CIP-013-1 Requirements R1 – R3) in response to stakeholder comments. Do you agree with the proposed requirements? If you do not agree, or if you agree but have comments or suggestions for the proposed requirements, please provide your recommendation and explanation.

Yes

No

Comments: The IESO agrees in principle with the proposed requirements and respectfully submit suggestions for purposes of clarity.

Requirement 1.2.1

We suggest the following wording change as the current wording suggests that the vendor has sufficient knowledge of the Responsible Entities' environment to know that a particular vulnerability does in fact pose a security risk to the Responsible Entity.

Notification by the vendor of vendor-identified incidents related to the products or services provided to the Responsible Entity that *could* pose cyber security risk to the Responsible Entity;

Requirement 1.2.2

We suggest the following wording change as the current phrase "coordination of response" is not clear as to what is intended by "coordination".

Coordination of response *activities by the vendor and the Responsible Entity* to address vendor-identified incidents related to the products or services provided to the Responsible Entity that pose cyber security risk to the Responsible Entity;

Requirement 1.2.3

We suggest the following wording change as the current wording suggests that the Vendor has sufficient knowledge of the Responsible Entity to determine whether or not an individual should no longer be granted access. The Responsible Entity is the only party to an agreement that has the ability to determine who should or should not have access.

Circumstances where vendors should notify the Responsible Entity that access requirements of the vendor or third party personnel has changed.

Requirement 1.2.4

We suggest the following wording change as the current wording is not clear as to which vulnerabilities are applicable.

Disclosure by vendors of known vulnerabilities *in the procured product or service*;

Requirement 1.2.6

We suggest the following wording change as the use of the phrase “Coordination of controls” is confusing.

Controls for; (i) vendor-initiated Interactive Remote Access, and (ii) system-to-system remote access with a vendor(s).

2. The SDT developed proposed CIP-005-6 Requirement R2 Parts 2.4 and 2.5 to address the Order No. 829 directives for controls on vendor-initiated remote access to BES Cyber Systems covering both user-initiated and machine-to-machine vendor remote access. The SDT followed an approach recommended by stakeholders during the initial posting of CIP-013-1. Do you agree with proposed revisions in CIP-005-6? If you do not agree, or if you agree but have comments or suggestions, please provide your recommendation and explanation.

Yes

No

Comments: The IESO agree with the new CIP-005-6 Requirement R2 Parts 2.4 and 2.5 however we note there is no corresponding “Guidance and Technical Basis” or “Rationale”

3. The SDT developed proposed CIP-010-3 Requirement R1 Part 1.6 to address the Order No. 829 directive for entities to address verification of software integrity and authenticity in the BES Cyber System environment (P 48). The SDT followed an approach recommended by stakeholders during the initial posting of CIP-013-1. Do you agree with proposed revisions in CIP-010-3? If you do not agree, or if you agree but have comments or suggestions for the proposed requirement, please provide your recommendation and explanation.

Yes

No

Comments: The IESO is concerned with two aspects of CIP-010-3 Requirement R1 Part 1.6:

1. The phrase “when the method to do so is available to the Responsible Entity from the software source” will be difficult to audit and difficult for the Responsible Entity to confirm as it is hard to prove a negative. The IESO suggest that verification of software source and integrity can take many different forms and is a sufficiently common practice that this phrase is not required. To take into consideration legacy software, the IESO suggest the wording be adjusted, to reflect FERC intentions that the requirements are forward looking, by replacing the phrase “and when the method to do so is available to the Responsible Entity from the software source” with “and, at a minimum, for the portion of the software that has changed:”

2. There appears to be inconsistency between the requirement and the Guidelines.

The requirement states “For a change that deviates from the existing baseline configuration associated with baseline items in Parts 1.1.1, 1.1.2, and 1.1.5”.

The Guidelines and Technical Basis section heading Software and Authenticity, paragraph three on page 39, states: “It is not the intent of the SDT to require a verification of each source or software update at the time it is obtained. It is sufficient to establish the reliable source and software update once. This will allow automated solutions to be implemented to obtain frequent updates such as patches.”

The requirement wording suggests it applies for any change but the guidance suggests that for some changes, such as patches, it would not apply. As the requirement is auditable and the guidance is not, the guidance becomes superfluous. The Guideline also introduces significant ambiguity that is impossible to audit.

Therefore the IESO suggest that either the requirement wording be adjusted to allow for automated patching solutions or the Guideline be removed as it is contradictory. The IESO suggest that automated patch deployment solutions should be able to verify the identity and integrity of the patch. Therefore the best solution is to remove the guideline.

4. The SDT removed low-impact BES Cyber Systems from the applicability in CIP-013-1 and is not proposing any new requirements for these cyber systems. The SDT believes that the proposed applicability to high and medium impact BES Cyber Systems appropriately focuses industry resources on supply chain cyber security risk management for industrial control system hardware, software, and computing and networking services associated with BES operations, as specified in Order No. 829. Do you agree with the SDT’s removal of low impact BES Cyber Systems from CIP-013-1? If you do not agree, or if you agree but have comments or suggestions, please provide your recommendation and explanation.

Yes

No

Comments: As the IESO does not have any low impact BES Cyber Systems we abstain from answering Yes or No to this question. However, we suggest the rationale for not including Low Impact Bes Cyber Systems is not clear. We also suggest that small to medium sized Responsible Entities have the most to gain from CIP-013 as they have the fewest resources to mitigate risks from the supply chain.

While the IIESO does not have Low Impact Bes Cyber Systems we have multiple interfaces with our Market Participants that do have Low Impact BES Cyber Systems. This, in turn represents, risk to our BES Cyber Systems. As such we recommend that CIP-013-1 apply to Low Impact BES Cyber Systems to reduce the supply chain risk not only to the Low Impact BES Cyber Systems but to the IRC member organization’s BES Cyber Systems.

5. The SDT revised the Implementation Plan in response to stakeholder comments. Do you agree with the Implementation Plan for the requirements in Project 2016-03? If you do not agree, or if you agree but have comments or suggestions for the Implementation Plan, please provide your recommendation and explanation.

Yes

No

Comments:

6. The SDT revised the Violation Severity Levels (VSLs) for requirements in CIP-013-1, CIP-005-6, and CIP-010-3. Do you agree with the Violation Risk Factors (VRFs) and Violation Severity Levels (VSLs) for the proposed requirements? If you do not agree, or if you agree but have comments or suggestions for the VRFs and VSLs, please provide your recommendation and explanation.

Yes

No

Comments:

7. The SDT developed draft Implementation Guidance for CIP-013 to provide examples of how a Responsible Entity could comply with the requirements. The draft Implementation Guidance does not prescribe the only approach to compliance. Rather, it describes some approaches the SDT believes would be effective ways to comply with the standard. See NERC's [Compliance Guidance policy](#) for information on Implementation Guidance. Do you agree with the example approaches in the draft Implementation Guidance? If you do not agree, or if you agree but have comments or suggestions for the draft Implementation Guidance, please provide your recommendation and explanation.

Yes

No

Comments: Note: the following comment is the same as identified for question 3.

8. The SDT believes proposed CIP-013-1 and the draft Implementation Guidance provide entities with flexibility to meet the reliability objectives in a cost effective manner. Do you agree? If you do not agree, or if you agree but have suggestions for improvement to enable additional cost effective approaches, please provide your recommendation and, if appropriate, technical justification.

Yes

No

Comments:

9. Provide any additional comments for the SDT to consider, if desired.

Comments:

There appears to be inconsistency between the requirement and the Guidelines in CIP-010 R1.

The requirement states "For a change that deviates from the existing baseline configuration associated with baseline items in Parts 1.1.1, 1.1.2, and 1.1.5".

The Guidelines and Technical Basis section heading Software and Authenticity, paragraph three on page 39, states: “It is not the intent of the SDT to require a verification of each source or software update at the time it is obtained. It is sufficient to establish the reliable source and software update once. This will allow automated solutions to be implemented to obtain frequent updates such as patches.”

The requirement wording suggests it applies for any change but the guidance suggests that for some changes, such as patches, it would not apply. As the requirement is auditable and the guidance is not, the guidance becomes superfluous. The Guideline also introduces significant ambiguity that is impossible to audit.

Therefore the IESO suggest that either the requirement wording be adjusted to allow for automated patching solutions or the Guideline be removed as it is contradictory. The IESO suggest that automated patch deployment solutions should be able to verify the identity and integrity of the patch. Therefore the best solution is to remove the guideline.

Note: the following comment is the same as identified for question 2.

We note there is no corresponding “Guidance and Technical Basis” or “Rationale” for CIP-005-6 Requirement R2 Parts 2.4 and 2.5.