## **Comment Report**

Project Name: 2019-03 Cyber Security Supply Chain Risks | CIP-005-7, CIP-010-4, & CIP-013-2 (Draft 3)

Comment Period Start Date: 7/28/2020 Comment Period End Date: 9/10/2020

Associated Ballots: 2019-03 Cyber Security Supply Chain Risks CIP-005-7, CIP-010-4, & CIP-013-2 AB 3 ST

There were 59 sets of responses, including comments from approximately 135 different people from approximately 85 companies representing 10 of the Industry Segments as shown in the table on the following pages.

## Questions

- 1. The SDT is proposing to restore CIP-005-7 Requirement R2 Parts 2.4 and 2.5 to the original approved CIP-005-6 language and Applicable Systems. In addition, the SDT is proposing the newly formed Requirement R3 be dedicated to addressing vendor remote access for EACMS and PACS, specifically. Do you agree? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.
- 2. The SDT is proposing to remove the references to Interactive Remote Access (IRA) and the undefined term system to system from CIP-005-7 Requirements R3 Parts 3.1 and 3.2 to clarify Intermediate Systems are not required for EACMS or PACS, and to address industry's concerns about recursive requirements ('hall of mirrors'). Do you agree? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.
- 3. The SDT is proposing to remove references to Interactive Remote Access (IRA) and the undefined term system to system from CIP-013-2 Requirement R1.2.6 to clarify that CIP-013-2 is about the Supply Chain Cyber Security Risk Management Plan and associated higher-level procurement processes and not the operational requirements implemented through CIP-005-7 and CIP-010-4. Do you agree? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.
- 4. The SDT proposes that the modifications in CIP-005-7, CIP-010-4 and CIP-013-2 meet the FERC directives in a cost effective manner by fine tuning the scope of the modified requirements to vendor-initiated remote access. Do you agree? If you do not agree, or if you agree but have suggestions for improvement to enable more cost effective approaches, please provide your recommendation and, if appropriate, technical or procedural justification.
- 5. Provide any additional comments for the standard drafting team to consider, if desired.

| Organization<br>Name                | Name                        | Segment(s) | Region      | Group Name                                | Group<br>Member<br>Name        | Group Member<br>Organization                         | Group<br>Member<br>Segment(s) | Group<br>Member<br>Region |     |
|-------------------------------------|-----------------------------|------------|-------------|---|--------------------------------|--|-------------------------------|---------------------------|-----|
| BC Hydro<br>and Power               | Adrian<br>Andreoiu          | 1<br>iu    | WECC        | BC Hydro                                  | Hootan<br>Jarollahi            | BC Hydro and<br>Power Authority                      | 3                             | WECC                      |     |
| Authority                           |                             |            |             |   | Helen<br>Hamilton<br>Harding   | BC Hydro and<br>Power Authority                      | 5                             | WECC                      |     |
|                                     |                             |            |             |   | Adrian<br>Andreoiu             | BC Hydro and<br>Power Authority                      | 1                             | WECC                      |     |
| Midcontinent<br>ISO, Inc.           | Bobbi Welch                 | elch 2     | MRO,RF,SERC | ISO/RTO<br>Council<br>Standards<br>Review | Brandon<br>Gleason             | Electric<br>Reliability<br>Council of<br>Texas, Inc. | 2                             | Texas RE                  |     |
|                                     |                             |            |             | Committee 2019-03                         | Helen Lainis                   | IESO   | 2                             | NPCC                      |     |
|                                     |                             |            |             | Supply Chain<br>Risks                     | Kathleen<br>Goodman            | ISONE  | 2                             | NPCC                      |     |
|                                     |                             |            |             |   | Bobbi Welch                    | MISO   | 2                             | RF                        |     |
|                                     |                             |            |             |   | Gregory<br>Campoli             | New York<br>Independent<br>System<br>Operator        | 2                             | NPCC                      |     |
|                                     |                             |            |             |   | Mark Holman                    | PJM<br>Interconnection,<br>L.L.C.                    | 2                             | RF                        |     |
|                                     |                             |            |             |   | Charles<br>Yeung               | Southwest<br>Power Pool,<br>Inc. (RTO)               | 2                             | MRO                       |     |
|                                     |                             |            |             |   | Ali Miremadi                   | CAISO  | 2                             | WECC                      |     |
| Douglas                             | Douglas                     |            | MRO,SPP RE  | Westar-KCPL                               | Doug Webb                      | Westar   | 1,3,5,6                       | MRO                       |     |
| Webb                                | Webb                        | Webb       |             |   |                                | Doug Webb  | KCP&L                         | 1,3,5,6                   | MRO |
| CMS Energy<br>- Consumers<br>Energy | Jeanne<br>Kurzynowski 3,4,5 |            | RF          | Consumers<br>Energy<br>Company            | Jeanne<br>Kurzynowski          | Consumers<br>Energy<br>Company                       | 1,3,4,5                       | RF                        |     |
| Company                             |                             |            |             | Jim Anderson                              | Consumers<br>Energy<br>Company | 1  | RF                            |                           |     |
|                                     |                             |            |             | Karl<br>Blaszkowski                       | Consumers<br>Energy<br>Company | 3  | RF                            |                           |     |
|                                     |                             |            |             |   | Theresa<br>Martinez            | Consumers<br>Energy<br>Company                       | 4                             | RF                        |     |

|                                   |                   |           |   |   | David<br>Greyerbiehl | Consumers<br>Energy<br>Company                           | 5   | RF   |
|-----------------------------------|-------------------|-----------|---|---|----------------------|--|-----|------|
| ACES Power<br>Marketing           | Jodirah<br>Green  | 1,3,4,5,6 | MRO,NA - Not<br>Applicable,RF,SERC,Texas<br>RE,WECC | ACES<br>Standard<br>Collaborations        |                      | Hoosier Energy<br>Rural Electric<br>Cooperative,<br>Inc. | 1   | SERC |
|                                   |                   |           |   |   | Kevin Lyons          | Central Iowa<br>Power<br>Cooperative                     | 1   | MRO  |
|                                   |                   |           |   |   | Bill Hutchison       | Southern Illinois<br>Power<br>Cooperative                | 1   | SERC |
|                                   |                   |           |   |   | Jennifer Bray        | Arizona Electric<br>Power<br>Cooperative,<br>Inc.        | 1   | WECC |
|                                   |                   |           |   |   | Nick<br>Fogleman     | Prairie Power Incorporated                               | 1,3 | SERC |
|                                   | Julie<br>Severino | erino Gho |   | FirstEnergy                               | Aaron<br>Ghodooshim  | FirstEnergy -<br>FirstEnergy<br>Corporation              | 3   | RF   |
|                                   |                   |           |   |   | Robert Loy           | FirstEnergy -<br>FirstEnergy<br>Solutions                | 5   | RF   |
|                                   |                   |           | Ann Ivanc   | FirstEnergy -<br>FirstEnergy<br>Solutions | 6                    | RF   |     |      |
|                                   |                   |           |   |   | Mark Garza           | FirstEnergy -<br>FirstEnergy<br>Corporation              | 4   | RF   |
| DTE Energy -<br>Detroit<br>Edison | Karie<br>Barczak  |           |   | DTE Energy -<br>DTE Electric              | Adrian<br>Raducea    | DTE Energy -<br>Detroit Edison<br>Company                | 5   | RF   |
| Company                           |                   |           |   |   | Daniel<br>Herring    | DTE Energy -<br>DTE Electric                             | 4   | RF   |
|                                   |                   |           | Karie Barczak                                       | DTE Energy -<br>DTE Electric              | 3                    | RF   |     |      |
| Duke Energy                       | Masuncha          | 1,3,5,6   | FRCC,MRO,RF,SERC,Texas<br>RE                        | Duke Energy                               | Laura Lee            | Duke Energy  | 1   | SERC |
|                                   | Bussey            | ssey      |   |   | Dale<br>Goodwine     | Duke Energy  | 5   | SERC |
|                                   |                   |           |   |   | Greg Cecil           | Duke Energy  | 6   | RF   |
|                                   |                   |           |   |   | Lee Schuster         | Duke Energy  | 3   | SERC |

|   | Meaghan<br>Connell | 5                  |             | Chelan<br>County                  | Ginette<br>Lacasse                            | Public Utility<br>District No. 1 of<br>Chelan County | 1    | WECC |
|---|--------------------|--------------------|-------------|-----------------------------------|---|--|------|------|
|   |                    |                    |             |                                   | Joyce Gundry                                  | Public Utility<br>District No. 1 of<br>Chelan County | 3    | WECC |
|   |                    |                    |             |                                   | Meaghan<br>Connell                            | Public Utility<br>District No. 1 of<br>Chelan County | 5    | WECC |
|   |                    |                    |             |                                   | Glen Pruitt                                   | Public Utility<br>District No. 1 of<br>Chelan County | 6    | WECC |
| Michael<br>Johnson                            | Michael<br>Johnson |                    |             | PG&E All<br>Segments              | Marco Rios                                    | Pacific Gas and<br>Electric<br>Company               | 1    | WECC |
|   |                    |                    |             |                                   | Sandra Ellis                                  | Pacific Gas and<br>Electric<br>Company               | 3    | WECC |
|   |                    |                    |             |                                   | James<br>Mearns                               | Pacific Gas and<br>Electric<br>Company               | 5    | WECC |
| Eversource<br>Energy                          | Quintin Lee        | Lee 1              |             | Eversource<br>Group               | Sharon<br>Flannery                            | Eversource<br>Energy                                 | 3    | NPCC |
|   |                    |                    |             |                                   | Quintin Lee                                   | Eversource<br>Energy                                 | 1    | NPCC |
| Northeast<br>Power<br>Coordinating<br>Council | Ruida Shu          | Regional Standards |             | Guy V. Zito                       | Northeast<br>Power<br>Coordinating<br>Council | 10   | NPCC |      |
|   |                    |                    |             | Randy<br>MacDonald                | New Brunswick<br>Power                        | 2  | NPCC |      |
|   |                    |                    |             | Glen Smith                        | Glen Smith                                    | Entergy<br>Services                                  | 4    | NPCC |
|   |                    |                    |             | Alan<br>Adamson                   | New York State<br>Reliability<br>Council      | 7  | NPCC |      |
|   |                    |                    | David Burke | Orange &<br>Rockland<br>Utilities | 3   | NPCC   |      |      |
|   |                    |                    |             |                                   | Michele<br>Tondalo                            | UI   | 1    | NPCC |
|   |                    |                    |             |                                   | Helen Lainis                                  | IESO   | 2    | NPCC |
|   |                    |                    |             |                                   | David Kiguel                                  | Independent  | 7    | NPCC |
|   |                    |                    |             |                                   | Paul<br>Malozewski                            | Hydro One<br>Networks, Inc.                          | 3    | NPCC |

| Nick<br>Kowalczyk         | Orange and Rockland   | 1 | NPCC |
|---------------------------|---|---|------|
| Joel<br>Charlebois        | AESI - Acumen<br>Engineered<br>Solutions<br>International<br>Inc. | 5 | NPCC |
| Mike Cooke                | Ontario Power Generation, Inc.                                    | 4 | NPCC |
| Salvatore<br>Spagnolo     | New York<br>Power Authority                                       | 1 | NPCC |
| Shivaz<br>Chopra          | New York<br>Power Authority                                       | 5 | NPCC |
| Deidre<br>Altobell        | Con Ed -<br>Consolidated<br>Edison                                | 4 | NPCC |
| Dermot<br>Smyth           | Con Ed -<br>Consolidated<br>Edison Co. of<br>New York             | 1 | NPCC |
| Peter Yost                | Con Ed -<br>Consolidated<br>Edison Co. of<br>New York             | 3 | NPCC |
| Cristhian<br>Godoy        | Con Ed -<br>Consolidated<br>Edison Co. of<br>New York             | 6 | NPCC |
| Nicolas<br>Turcotte       | Hydro-Qu?bec<br>TransEnergie                                      | 1 | NPCC |
| Chantal<br>Mazza          | Hydro Quebec  | 2 | NPCC |
| Sean Bodkin               | Dominion -<br>Dominion<br>Resources, Inc.                         | 6 | NPCC |
| Nurul Abser               | NB Power<br>Corporation   | 1 | NPCC |
| Randy<br>MacDonald        | NB Power<br>Corporation   | 2 | NPCC |
| Silvia Parada<br>Mitchell | NextEra<br>Energy, LLC  | 4 | NPCC |
| Michael<br>Ridolfino      | Central Hudson<br>Gas and<br>Electric                             | 1 | NPCC |
| Vijay Puran               | NYSPS   | 6 | NPCC |

| NPCC | 10 | New York State<br>Reliability<br>Council         | ALAN<br>ADAMSON   |
|------|----|--|-------------------|
| NPCC | 1  | PSEG - Public<br>Service Electric<br>and Gas Co. | Sean Cavote       |
| NPCC | 5  | Utility Services                                 | Brian<br>Robinson |
| NPCC | 1  | Eversource<br>Energy                             | Quintin Lee       |
| NPCC | 2  | NYISO  | Jim Grant         |
| NPCC | 2  | ISONE  | John Pearson      |
| NPCC | 1  | National Grid<br>USA                             | John<br>Hastings  |
| NPCC | 1  | National Grid<br>USA                             | Michael<br>Jones  |

| . The SDT is proposing to restore CIP-005-7 Requirement R2 Parts 2.4 and 2.5 to the original approved CIP-005-6 language and Applicable systems. In addition, the SDT is proposing the newly formed Requirement R3 be dedicated to addressing vendor remote access for EACMS and PACS, specifically. Do you agree? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural ustification.  |  |  |  |  |  |
|--|--|--|--|--|--|
| Roger Fradenburgh - Roger Fradenburgh  | on Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh  |  |  |  |  |
| Answer   | No   |  |  |  |  |
| Document Name  |  |  |  |  |  |
| Comment  |  |  |  |  |  |
| <ul> <li>It addresses "authenticated vendor-provide a working definition of a "relevant of the above the second inconsistency is created by the second inconsistency is cr</li></ul> | consistency problem. There equirement R2 for vendor remote connections to BES Cyber Systems and PCAs.  Solve using the term, "remote connection" in R3, whereas the term, "remote access" is used in R2.  3.2 to R2 and eliminate R3. N&ST sees no need to address vendor remote access to applicable systems in st.  In those two Parts to say, for example:  St. BES Cyber Systems, and at least one form of authentication.  St. taken verbatim from the Glossary definition of IRA at least one form of authentication.  Som the existing IRA definition, that that clarifies "vendor remote access" originates from "Cyber Assets used or consultants." The SDT may want to consider adding this to existing R2 Parts 2.4 and 2.5, as well.  The solvendor reconnection should either be eliminated or added to existing R2 Part 2.5. |  |  |  |  |
| Likes 1  | Central Hudson Gas & Dectric Corp., 1, Pace Frank  |  |  |  |  |
| Dislikes 0   |  |  |  |  |  |
| Response   |  |  |  |  |  |
| lodirah Groon ACES Bower Marketing   | 1 2 4 5 6 MDO WECC Toyog DE SEDC DE Croup Name ACES Standard Collaborations  |  |  |  |  |
|  | 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Standard Collaborations   |  |  |  |  |
| Answer   | No   |  |  |  |  |
| Document Name  |  |  |  |  |  |
| Comment  |  |  |  |  |  |

ACES does not agree with the use of "authenticated" and "remote connections" in R3. R3 without the word authenticated, covers all vendor connections .. CIP-004 R4.1 already requires access management for EACMS and PACS and CIP-007 R5.1 requires methods to enforce authentication. Further, as discussed on the project 2019-03 webinar, unauthenticated remote access is already addressed by the CIP standards. Lastly, an authorized remote connection can be made without being authenticated. Thus an authorized malicious insider could easily craft a denial of service without ever being completely authenticated. Removing the word "authenticated" would put more emphasis on all vendor connections and increases the security objective of R3. Suggested language: "Have one or more method(s) to determine vendor initiated remote access." Secondly, the CIP standards have always used the NERC defined term: Interactive Remote Access and or remote access vs what is in the draft "remote connections". ACES suggests using language consistent with existing standards. Without defining "remote connections", it makes the requirement vague and could be interpreted differently. Suggested language: "Have one or more method(s) to terminate vendor initiated remote access and control the ability to reconnect." Likes 0 Dislikes 0 Response Andrea Jessup - Bonneville Power Administration - 1,3,5,6 - WECC No Answer **Document Name** Comment BPA proposes the SDT eliminate references to "vendor." The requirements should apply to any active remote sessions. Proposed change to R2.4: Have one or more methods for determining detecting active vendor remote access sessions (including Interactive Remote Access and system-tosystem remote access). Proposed change to R2.5: Have one or more method(s) to disable active vendor remote access (including Interactive Remote Access and system-to-system remote access). Likes 0 Dislikes 0 Response

Joe Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Hevin Smith, Balancing Authority of Northern California, 1; Nicole Goi, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; - Joe Tarantino

| Answer  | No  |  |  |  |  |
|---|---|--|--|--|--|
| Document Name   |   |  |  |  |  |
| Comment   |   |  |  |  |  |
| vendor-initiated" remote connections are. T<br>"Have one or more method(s) for determining<br>"authenticated" vendor-initiated remote accordance Access"? What is considered a remote accordance area of the considered and access the considered area of the considered and access the considered area of the considered area. | ral approved CIP-005-6 language is fine, but the language in R3 is unclear. It's not clear what "authenticated The intent seems clear, and the security necessity is warranted, but it is not clear why using something likeing authorized vendor-initiated remote access connections" is not used. What value does using less connections add? Why is "Remote Connections" used instead of "Remote Access" since R3 is "Vendor mote connection? Does a remote connection include both system to system communication and remote dee of an entities corporate network or is it a remote connection from inside an entities network but behind a nt? |  |  |  |  |
| Likes 0   |   |  |  |  |  |
| Dislikes 0  |   |  |  |  |  |
| Response  |   |  |  |  |  |
|   |   |  |  |  |  |
| Kjersti Drott - Tri-State G and T Associat  | ion, Inc 1  |  |  |  |  |
| Answer  | No  |  |  |  |  |
| Document Name   |   |  |  |  |  |
| Comment   |   |  |  |  |  |
| If the requirements are technically the same, as it appears, then the new scope should be added to Parts 2.4 and 2.5. However, we believe the SDT was attempting to resolve some ambiguity that currently exists around what is vendor remote access. We commend the SDT for this effort, and request they clarify the existing requirements (parts 2.4 and 2.5). Specifically, vendor remote access should be defined or somehow clarified that it only includes access where the vendor's personnel or system has direct access and ability to control the session. Having IRA and system-to-system listed as examples, but not an all-inclusive list, would also be helpful.   |   |  |  |  |  |
| Likes 0   |   |  |  |  |  |
| Dislikes 0  |   |  |  |  |  |
| Response  |   |  |  |  |  |
|   |   |  |  |  |  |
| Barry Jones - Barry Jones On Behalf of: Administration, 1, 6; - Barry Jones   | Erin Green, Western Area Power Administration, 1, 6; sean erickson, Western Area Power  |  |  |  |  |
| Answer  | No  |  |  |  |  |
| Document Name   |   |  |  |  |  |
| Comment   |   |  |  |  |  |
|   |   |  |  |  |  |

The SDT should provide guidance or clarify the role or function of Intermediate Systems in context of providing electronic access to EACMS and PACS located within an ESP vs outside an ESP.

| f the SDT intends to exclude Interactive Remote Access (IRA) requirements for EACMS or PACS in CIP-005-7 R3.1 and R3.2, it should clarify that an intermediate system is not required to electronically access an EACMS and PACS located outside an ESP. However, if the EACMS or PACS is located within the ESP, the entity is required to utilize an Intermediate System for electronic access. This brings into scope all CIP-005 R2 requirements. |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| Without guidance, entities may interpret that an Intermediate System is never required for the vendor IRA to EACMS or PACS - even though they may exist within an ESP.  |  |  |  |  |  |  |  |
|   | n R3.1 and R3.2, but if an EACMS or PACS is inside an ESP and the vendor remote access meets the IRA the EACMS or PACS inside an ESP without the IRA requirements of CIP-005 R2? |  |  |  |  |  |  |
| The SDT could consider putting all vendor   | remote access sub-requirements in one requirement – 3.0.   |  |  |  |  |  |  |
| Likes 0   |  |  |  |  |  |  |  |
| Dislikes 0  |  |  |  |  |  |  |  |
| Response  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |
| Marty Hostler - Northern California Powe  | r Agency - 5   |  |  |  |  |  |  |
| Answer  | No   |  |  |  |  |  |  |
| Document Name   |  |  |  |  |  |  |  |
| Comment   |  |  |  |  |  |  |  |
| Agree with leaving R2 as is.  |  |  |  |  |  |  |  |
| Disagree with need for a R3. Actually, the  | SDT should be providing us with a cost/benefit justification for change.   |  |  |  |  |  |  |
| Likes 0   |  |  |  |  |  |  |  |
| Dislikes 0  |  |  |  |  |  |  |  |
| Response  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |
| Ruida Shu - Northeast Power Coordinati  | ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC Regional Standards Committee   |  |  |  |  |  |  |
| Answer  | No   |  |  |  |  |  |  |
| Document Name   |  |  |  |  |  |  |  |
| Comment   |  |  |  |  |  |  |  |
| We thought a CIP Modification SDT goal was to remove this language to assist the coming virtualization updates.   |  |  |  |  |  |  |  |
| Request clarification on why CIP-005 R2 Parts 2.4 & 2.5 use the phrase "vendor remote access" while CIP-013 R1 Part 1.2.6 uses the phrase "vendor-initiated remote access" We are concerned that omitting "initiated" may introduce unintended requirements in CIP-005.   |  |  |  |  |  |  |  |
| Likes 0   |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |

| Dislikes 0   |   |  |  |  |  |  |
|--|---|--|--|--|--|--|
| Response   |   |  |  |  |  |  |
|  |   |  |  |  |  |  |
| ndrea Barclay - Georgia System Operations Corporation - 4  |   |  |  |  |  |  |
| Answer   | No  |  |  |  |  |  |
| Document Name  |   |  |  |  |  |  |
| Comment  |   |  |  |  |  |  |
| these requirements creates significant pote similar cyber security protections as would requirements for PACS and EACMSs and t interpretations of compliance and "double je while being unduly burdensome for entities, that will have a net effect of enhancing security comments mirrors). In its response to question #2, GS simpler approach for the requirements gene proposed below, e.g., definition revision, to | s have driven these proposed changes, and agrees that valid concerns have been presented (e.g., the hall of OC proposes an approach to addressing these previous concerns and comments that will allow a return to a grally. We respectfully recommend that the SDT consider utilizing alternative approaches such as are allow the requirements to more clearly and succinctly meet the Commission directives regarding EACMS as soncerns will facilitate a reversion of the requirement language to the initial proposal where EACMSs and |  |  |  |  |  |
| Likes 0  |   |  |  |  |  |  |
| Dislikes 0   |   |  |  |  |  |  |
| Response   |   |  |  |  |  |  |
|  |   |  |  |  |  |  |
| Dennis Sismaet - Northern California Po  | wer Agency - 6  |  |  |  |  |  |
| Answer   | No  |  |  |  |  |  |
| Document Name  |   |  |  |  |  |  |
| Comment  |   |  |  |  |  |  |
| please reference Marty Hostler, Northern C   | alifornia Power Agency, comments  |  |  |  |  |  |
| Likes 0  |   |  |  |  |  |  |
| Dislikes 0   |   |  |  |  |  |  |
| Response   |   |  |  |  |  |  |
|  |   |  |  |  |  |  |
| Masuncha Bussey - Duke Energy - 1,3,5,6 - MRO,Texas RE,SERC, Group Name Duke Energy  |   |  |  |  |  |  |

| Answer  | Yes  |
|---|--|
| Document Name   |  |
| Comment   |  |
| Duke Energy generally agrees with restorin  | g R2 Parts 2.4 and 2.5 to the original approved CIP-005-6 language and adding R3 for EACMS and PACS.   |
| Likes 0   |  |
| Dislikes 0  |  |
| Response  |  |
|   |  |
| Joshua Andersen - Salt River Project - 1,   | ,3,5,6 - WECC  |
| Answer  | Yes  |
| Document Name   |  |
| Comment   |  |
| We recommend that view only access by a   | vendor is not considered IRA, nor vendor remote access.  |
| Likes 0   |  |
| Dislikes 0  |  |
| Response  |  |
|   |  |
| Julie Severino - FirstEnergy - FirstEnerg   | y Corporation - 1, Group Name FirstEnergy  |
| Answer  | Yes  |
| Document Name   |  |
| Comment   |  |
| To separate the remote access from the verare reorganized to become R3 Parts 3.1 an | ndor remote access, FirstEnergy would respectfully suggest that the currently drafted R2 Parts 2.4 and 2.5 d 3.2. Subsequently, the currently drafted R3 3.1 and 3.2 become Parts 3.3 and 3.4. |
| Likes 0   |  |
| Dislikes 0  |  |
| Response  |  |
|   |  |
| Janet OBrien - WEC Energy Group, Inc  | - 5  |
| Answer  | Yes  |
| Document Name   |  |

| Comment                                  |  |
|--|--|
| Agree with comments submitted separately | by Tom Breene of WEC   |
| Likes 0                                  |  |
| Dislikes 0                               |  |
| Response                                 |  |
|  |  |
| Tho Tran - Tho Tran On Behalf of: Lee M  | aurer, Oncor Electric Delivery, 1; - Tho Tran  |
| Answer                                   | Yes  |
| Document Name                            |  |
| Comment                                  |  |
| Oncor supports EEI's comment.            |  |
| Likes 0                                  |  |
| Dislikes 0                               |  |
| Response                                 |  |
|  |  |
| John Galloway - John Galloway On Beha    | alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway  |
| Answer                                   | Yes  |
| Document Name                            |  |
| Comment                                  |  |
|  | n to restore the CIP-005-7 Requirements R2 Parts 2.4 and 2.5. However, ISO-NE recommends the use of dor-initiated remote connections" for both Requirement R2 Part 2.4 and R2.5 and the Requirement R3 Parts |
| Likes 0                                  |  |
| Dislikes 0                               |  |
| Response                                 |  |
|  |  |
|  | Behalf of: Ed Hanson, Pacific Gas and Electric Company, 1, 3, 5; Marco Rios, Pacific Gas and Electric as and Electric Company, 1, 3, 5; - Michael Johnson, Group Name PG&E All Segments                      |
| Answer                                   | Yes  |
| Document Name                            |  |

| Comment   |   |  |  |  |
|---|---|--|--|--|
| PG&E believes this is the appropriate modifications in-line with the industry comments made to the second Comment & Ballot. The restoration of the P2.4 and P2.5, along with the modifications made in Requirement R3 more clearly eliminate the potential interpretation that could have resulted in recursive requirements noted in Question 2 below. |   |  |  |  |
| Likes 0   |   |  |  |  |
| Dislikes 0  |   |  |  |  |
| Response  |   |  |  |  |
|   |   |  |  |  |
| Darnez Gresham - Berkshire Hathaway E   | Energy - MidAmerican Energy Co 3  |  |  |  |
| Answer  | Yes   |  |  |  |
| Document Name   |   |  |  |  |
| Comment   |   |  |  |  |
| MidAmerican supports EEI commnets   |   |  |  |  |
| Likes 0   |   |  |  |  |
| Dislikes 0  |   |  |  |  |
| Response  |   |  |  |  |
|   |   |  |  |  |
| David Jendras - Ameren - Ameren Service   | ces - 3   |  |  |  |
| Answer  | Yes   |  |  |  |
| Document Name   |   |  |  |  |
| Comment   |   |  |  |  |
| Ameren agrees with and supports EEI comments.   |   |  |  |  |
| Likes 0   |   |  |  |  |
| Dislikes 0  |   |  |  |  |
| Response  |   |  |  |  |
|   |   |  |  |  |
|   | John Lindsey, Cleco Corporation, 6, 5, 1, 3; Maurice Paulk, Cleco Corporation, 6, 5, 1, 3; Robert ephanie Huffman, Cleco Corporation, 6, 5, 1, 3; - Clay Walker |  |  |  |
| Answer  | Yes   |  |  |  |
| Document Name   |   |  |  |  |

| Comment  |   |
|--|---|
| Cleco agrees with EEI comments.  |   |
| Likes 0  |   |
| Dislikes 0   |   |
| Response   |   |
|  |   |
| Kevin Salsbury - Berkshire Hathaway - N  | IV Energy - 5   |
| Answer   | Yes   |
| Document Name  |   |
| Comment  |   |
| 2.5, we ask the SDT to consider revising "vendor remote access should be considere EEI supports the current proposed draft lan In addition, NVE supports the revision of "vendor and 2.5 and CIP-005-6 by Regional Entities" | the SDT, which addressed prior EEI member comments related to CIP-005-7 Requirement R2 Parts 2.4 and endor remote access" to "vendor initiated remote access" or provide clarification why they believe that all d under Parts 2.4 and 2.5. |
|  |   |
| Daniel Gacek - Exelon - 1  |   |
| Answer   | Yes   |
| Document Name  |   |
| Comment  |   |
| Exelon has elected to align with EEI in resp   | onse to this question.  |
| Likes 0  |   |
| Dislikes 0   |   |
| Response   |   |

|   | Group Name ISO/RTO Council Standards Review Committee 2019-03 Supply Chain Risks  |  |
|---|---|--|
| Answer  | Yes   |  |
| Document Name   |   |  |
| Comment   |   |  |
| The ISO/RTO Council Standards Review Coriginal, currently approved CIP-005-6 lange  | ommittee (IRC SRC) [1] supports the restoration of CIP-005-7 Requirement R2 Parts 2.4 and 2.5 to the uage and Applicable Systems.   |  |
| In addition, we agree with the addition of Requirement R3, Parts 3.1 and 3.2 to focus on the directive in FERC Order 850 and the recommendation in the NERC Cyber Security Supply Chain Risks Report to have one or more methods to determine and be able to terminate vendor-initiated remote connections to EACMS and PACS. |   |  |
| That said, the IRC SRC requests the Standard Drafting Team (SDT) provide additional clarity around the term "authenticated" to align and memorialize what was verbally (and non-binding) presented by the SDT in the Project 2019-03 webinar (timestamp 9:00 – 10:00 of 37:24) on August 5, 2020.                             |   |  |
| [1] For purposes of these comments, the IR  | C SRC includes the following entities: CAISO, ERCOT, IESO, ISO-NE, MISO, NYISO, PJM and SPP.  |  |
| Likes 0   |   |  |
| Dislikes 0  |   |  |
| Response  |   |  |
|   |   |  |
|   | If of: Allen Klassen, Westar Energy, 1, 5, 3, 6; Derek Brown, Westar Energy, 1, 5, 3, 6; Marcus Moor, EN, Westar Energy, 1, 5, 3, 6; - Douglas Webb, Group Name Westar-KCPL |  |
| Answer  | Yes   |  |
| Document Name   |   |  |
| Comment   |   |  |
| Westar Energy and Kansas City Power & L<br>Question 1.  | ight, the Evergy companies, support and incorporate by reference the Edison Electric Institute's response to  |  |
| Likes 0   |   |  |
| Dislikes 0  |   |  |
| Response  |   |  |
|   |   |  |
| Monika Montez - California ISO - 2 - WEC  | c   |  |
| Answer  | Yes   |  |
| Document Name   |   |  |
| Comment   |   |  |

| The CAISO supports the ISO/RTO Council Standards Review Committee comments below.  |  |  |
|--|--|--|
| ISO/RTO Council Standards Review Committee (IRC SRC)[1] supports the restoration of CIP-005-7 Requirement R2 Parts 2.4 and 2.5 to the original, currently approved CIP-005-6 language and Applicable Systems.  |  |  |
| In addition, we agree with the addition of Requirement R3, Parts 3.1 and 3.2 to focus on the directive in FERC Order 850 and the recommendation in the NERC Cyber Security Supply Chain Risks Report to have one or more methods to determine and be able to terminate vendor-initiated remote connections to EACMS and PACS.  |  |  |
| That said, the IRC SRC requests the Standard Drafting Team (SDT) provide additional clarity around the term "authenticated" to align and memorialize what was verbally (and non-binding) presented by the SDT in the Project 2019-03 webinar (timestamp 9:00 – 10:00 of 37:24) on August 5, 2020.  |  |  |
| [1] For purposes of these comments, the IR   | C SRC includes the following entities: CAISO, ERCOT, IESO, ISO-NE, MISO, NYISO, PJM and SPP.   |  |
| Likes 0  |  |  |
| Dislikes 0   |  |  |
| Response   |  |  |
|  |  |  |
| Trevor Tidwell - PNM Resources - Public  | Service Company of New Mexico - 3  |  |
| Answer   | Yes  |  |
| Document Name  |  |  |
| Comment  |  |  |
| Comment  |  |  |
| Requirements R2 and R3 have subtly differ  | ent language (e.g. "disable" vs. "terminate" and "vendor-initiated") in addition to different ating the language so the same processes developed for R2 could be used for R3 would reduce regulatory |  |
| Requirements R2 and R3 have subtly differ applicability. Matching the language or upd  |  |  |
| Requirements R2 and R3 have subtly differ applicability. Matching the language or upd burden.  |  |  |
| Requirements R2 and R3 have subtly differ applicability. Matching the language or upd burden.  Likes 0   |  |  |
| Requirements R2 and R3 have subtly differ applicability. Matching the language or upd burden.  Likes 0  Dislikes 0   |  |  |
| Requirements R2 and R3 have subtly differ applicability. Matching the language or upd burden.  Likes 0  Dislikes 0   | ating the language so the same processes developed for R2 could be used for R3 would reduce regulatory   |  |
| Requirements R2 and R3 have subtly differ applicability. Matching the language or upd burden.  Likes 0  Dislikes 0  Response   | ating the language so the same processes developed for R2 could be used for R3 would reduce regulatory   |  |
| Requirements R2 and R3 have subtly differ applicability. Matching the language or upd burden.  Likes 0  Dislikes 0  Response  Laurie Williams - PNM Resources - Publication in the subtly difference | ating the language so the same processes developed for R2 could be used for R3 would reduce regulatory  c Service Company of New Mexico - 1  |  |
| Requirements R2 and R3 have subtly differ applicability. Matching the language or upd burden.  Likes 0  Dislikes 0  Response  Laurie Williams - PNM Resources - Publi  | ating the language so the same processes developed for R2 could be used for R3 would reduce regulatory  c Service Company of New Mexico - 1  |  |
| Requirements R2 and R3 have subtly differ applicability. Matching the language or upd burden.  Likes 0  Dislikes 0  Response  Laurie Williams - PNM Resources - Publi Answer  Document Name  Comment  Requirements R2 and R3 have subtly difference applicable subtly difference applicable subtly difference applicability. Matching the language or upd burden.  | ating the language so the same processes developed for R2 could be used for R3 would reduce regulatory  c Service Company of New Mexico - 1  |  |

| Dislikes 0                                  |                             |
|---|-----------------------------|
| Response                                    |                             |
|   |                             |
| Matthew Nutsch - Seattle City Light - 1,3   | ,4,5,6 - WECC               |
| Answer                                      | Yes                         |
| Document Name                               |                             |
| Comment                                     |                             |
|   |                             |
| Likes 0                                     |                             |
| Dislikes 0                                  |                             |
| Response                                    |                             |
|   |                             |
| Kelsi Rigby - APS - Arizona Public Service  | ce Co 5                     |
| Answer                                      | Yes                         |
| Document Name                               |                             |
| Comment                                     |                             |
|   |                             |
| Likes 0                                     |                             |
| Dislikes 0                                  |                             |
| Response                                    |                             |
|   |                             |
| Scott Langston - Tallahassee Electric (C    | ity of Tallahassee, FL) - 1 |
| Answer                                      | Yes                         |
| Document Name                               |                             |
| Comment                                     |                             |
|   |                             |
| Likes 0                                     |                             |
| Dislikes 0                                  |                             |
| Response                                    |                             |
|   |                             |
| Kyle Hussey - Public Utility District No. 2 |                             |
| Answer                                      | Yes                         |

| Document Name                             |  |
|---|--|
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |
| Dislikes 0                                |  |
| Response                                  |  |
|   |  |
| Jesus Sammy Alcaraz - Imperial Irrigation | n District - 1   |
| Answer                                    | Yes  |
| Document Name                             |  |
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |
| Dislikes 0                                |  |
| Response                                  |  |
|   |  |
| Jeanne Kurzynowski - CMS Energy - Cor     | nsumers Energy Company - 3,4,5 - RF, Group Name Consumers Energy Company |
| Answer                                    | Yes  |
| Document Name                             |  |
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |
| Dislikes 0                                |  |
| Response                                  |  |
|   |  |
| Thomas Breene - WEC Energy Group, In      | c 3  |
| Answer                                    | Yes  |
| Document Name                             |  |
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |
| Dislikes 0                                |  |

| Response                                  |   |  |
|---|---|--|
|   |   |  |
| Bruce Reimer - Manitoba Hydro - 1         |   |  |
| Answer                                    | Yes   |  |
| Document Name                             |   |  |
| Comment                                   |   |  |
|   |   |  |
| Likes 0                                   |   |  |
| Dislikes 0                                |   |  |
| Response                                  |   |  |
|   |   |  |
| Adrian Andreoiu - BC Hydro and Power      |   |  |
| Answer                                    | Yes   |  |
| Document Name                             |   |  |
| Comment                                   |   |  |
|   |   |  |
| Likes 0                                   |   |  |
| Dislikes 0                                |   |  |
| Response                                  |   |  |
|   |   |  |
| Anthony Jablonski - ReliabilityFirst - 10 |   |  |
| Answer                                    | Yes   |  |
| Document Name                             |   |  |
| Comment                                   |   |  |
|   |   |  |
| Likes 0                                   |   |  |
| Dislikes 0                                |   |  |
| Response                                  |   |  |
|   |   |  |
|   | son Company - 3, Group Name DTE Energy - DTE Electric |  |
| Answer                                    | Yes   |  |
| Document Name                             |   |  |

| Comment                                 |  |
|---|--|
|   |  |
| Likes 0                                 |  |
| Dislikes 0                              |  |
| Response                                |  |
|   |  |
| Tony Skourtas - Los Angeles Departmen   | t of Water and Power - 3                       |
| Answer                                  | Yes  |
| Document Name                           |  |
| Comment                                 |  |
|   |  |
| Likes 0                                 |  |
| Dislikes 0                              |  |
| Response                                |  |
|   |  |
| Richard Jackson - U.S. Bureau of Reclan | nation - 1                                     |
| Answer                                  | Yes  |
| Document Name                           |  |
| Comment                                 |  |
|   |  |
| Likes 0                                 |  |
| Dislikes 0                              |  |
| Response                                |  |
|   |  |
| Eli Rivera - CenterPoint Energy Houston | Electric, LLC - NA - Not Applicable - Texas RE |
| Answer                                  | Yes  |
| Document Name                           |  |
| Comment                                 |  |
|   |  |
| Likes 0                                 |  |
| Dislikes 0                              |  |
| Response                                |  |

| Laura Nelson - IDACORP - Idaho Power Company - 1 |                          |  |
|--|--------------------------|--|
| Answer   | Yes                      |  |
| Document Name                                    |                          |  |
| Comment  |                          |  |
|  |                          |  |
| Likes 0  |                          |  |
| Dislikes 0                                       |                          |  |
| Response   |                          |  |
|  |                          |  |
| Steven Rueckert - Western Electricity Co         | pordinating Council - 10 |  |
| Answer   | Yes                      |  |
| Document Name                                    |                          |  |
| Comment  |                          |  |
|  |                          |  |
| Likes 0  |                          |  |
| Dislikes 0                                       |                          |  |
| Response   |                          |  |
|  |                          |  |
| LaTroy Brumfield - American Transmissi           | ion Company, LLC - 1     |  |
| Answer   | Yes                      |  |
| Document Name                                    |                          |  |
| Comment  |                          |  |
|  |                          |  |
| Likes 0  |                          |  |
| Dislikes 0                                       |                          |  |
| Response   |                          |  |
|  |                          |  |
| Ray Jasicki - Xcel Energy, Inc 1,3,5             |                          |  |
| Answer   | Yes                      |  |
| Document Name                                    |                          |  |
| Comment  |                          |  |

| Likes 0                                   |  |
|---|--|
| Dislikes 0                                |  |
| Response                                  |  |
|   |  |
| Meaghan Connell - Public Utility District | No. 1 of Chelan County - 5, Group Name PUD No. 1 of Chelan County          |
| Answer                                    | Yes  |
| Document Name                             |  |
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |
| Dislikes 0                                |  |
| Response                                  |  |
|   |  |
| Lana Smith - San Miguel Electric Cooper   | ative, Inc 5   |
| Answer                                    | Yes  |
| Document Name                             |  |
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |
| Dislikes 0                                |  |
| Response                                  |  |
|   |  |
| Andy Fuhrman - Andy Fuhrman On Beha       | alf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman |
| Answer                                    | Yes  |
| Document Name                             |  |
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |
| Dislikes 0                                |  |
| Response                                  |  |
|   |  |

| Teresa Cantwell - Lower Colorado River    | Authority - 5  |
|---|--|
| Answer                                    | Yes  |
| Document Name                             |  |
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |
| Dislikes 0                                |  |
| Response                                  |  |
|   |  |
| James Baldwin - Lower Colorado River      | Authority - 1,5  |
| Answer                                    | Yes  |
| Document Name                             |  |
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |
| Dislikes 0                                |  |
| Response                                  |  |
|   |  |
| (Tacoma, WA), 3, 1, 4, 5, 6; Marc Donalds | Hien Ho, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; John Merrell, Tacoma Public Utilities son, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; Ozan Ferrin, Tacoma Public Utilities (Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; - Jennie Wike |
| Answer                                    | Yes  |
| Document Name                             |  |
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |
| Dislikes 0                                |  |
| Response                                  |  |
|   |  |
| Quintin Lee - Eversource Energy - 1, Gro  | pup Name Eversource Group  |
| Answer                                    | Yes  |
| Document Name                             |  |
| Comment                                   |  |

| Response   |  |
|--|--|
|  |  |
| Dislikes 0   |  |
| Likes 0  |  |
| However, Texas RE is concerned that in aduse the term "authenticated vendor-initiated presently defined. As such, the introduction vendor-initiated remote connection. Texas I "Interactive Remote Access and system-to-stream RE suggests the "hall of mirrors" conditions. | Requirement R2 Parts 2.4 and 2.5 to the original approved CIP-005-6 language, as well as addressing S in the newly formed Requirement R3.  dressing vendor remote access for EACMS and PACS, the Standard Drafting Team (SDT) has elected to remote connections." Texas RE notes that "authenticated vendor-initiated remote connections" is not of such a term may create additional ambiguity, particularly around what constitutes an "authenticated" RE suggests that the SDT could address this concern by using clarifying that such access includes system remote access" as presently defined in the current and proposed Requirement 2.4 and 2.5.  cern could be better addressed by adding language to Requirement R3 that excludes Intermediate Systems ction. Alternatively, the SDT could revise the definition of Interactive Remote Access to clarify this point. |
| Comment  |  |
| Document Name  |  |
| Answer   |  |
| Rachel Coyne - Texas Reliability Entity, I   | nc 10  |
|  |  |
| Response   |  |
| Dislikes 0   |  |
| Likes 0  |  |
| See EEI's comments.  |  |
| Comment  |  |
| Document Name  |  |
| Answer   |  |
| Neil Shockey - Edison International - Sou  | thern California Edison Company - 5  |
|  |  |
| Response   |  |
| Dislikes 0   |  |
| Likes 0  |  |

| Kinte Whitehead - Exelon - 3                 |                        |
|--|------------------------|
| Answer                                       |                        |
| Document Name                                |                        |
| Comment                                      |                        |
| Exelon has elected to align with EEI in resp | onse to this question. |
| Likes 0                                      |                        |
| Dislikes 0                                   |                        |
| Response                                     |                        |
|  |                        |
| Cynthia Lee - Exelon - 5                     |                        |
| Answer                                       |                        |
| Document Name                                |                        |
| Comment                                      |                        |
| Exelon has elected to align with EEI in resp | onse to this question. |
| Likes 0                                      |                        |
| Dislikes 0                                   |                        |
| Response                                     |                        |
|  |                        |
| Becky Webb - Exelon - 6                      |                        |
| Answer                                       |                        |
| Document Name                                |                        |
| Comment                                      |                        |
| Exelon has elected to align with EEI in resp | onse to this question. |
| Likes 0                                      |                        |
| Dislikes 0                                   |                        |
| Response                                     |                        |
|  |                        |

| 2. The SDT is proposing to remove the references to Interactive Remote Access (IRA) and the undefined term system to system from CIP-005-7 Requirements R3 Parts 3.1 and 3.2 to clarify Intermediate Systems are not required for EACMS or PACS, and to address industry's concerns about recursive requirements ('hall of mirrors'). Do you agree? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.  |  |
|--|--|
| Andrea Barclay - Georgia System Operat   | tions Corporation - 4  |
| Answer   | No   |
| Document Name  |  |
| Comment  |  |
| GSOC appreciates the SDT's efforts to remove the "hall of mirrors" concerns, but suggests a return to the simpler approach for the requirements as discussed in its response to question #1. To support this reversion, GSOC recommends the following revision to the definition of EACMS to address the 'Hall of Mirrors" concern:Cyber Assets that perform electronic access control or electronic access monitoring of the Electronic Security Perimeter(s) or BES Cyber Systems. This includes Intermediate Systems and does not include those systems that only perform electronic access control or electronic access monitoring to or from other EACMSs.  GSOC suggests that incorporating the recommended revision above will address the "hall of mirrors" concern, which will allow the SDT to revert the proposed language to the simpler approach described in question 1 above and eliminate the need to create multiple requirements to address the same or similar security and access controls/objectives. |  |
| Likes 0  |  |
| Dislikes 0   |  |
| Response   |  |
|  |  |
| Ruida Shu - Northeast Power Coordination   | ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC Regional Standards Committee |
| Answer   | No   |
| Document Name  |  |
| Comment  |  |
| We agree with the SDT on removing the hall of mirrors. But the "authentication" clarification below is necessary.  We request clarification of authenticating. The Technical Rationale, page 11 under R3, says this "authenticating" means authenticating the connection,  |  |
| not authenticating the user. This clarification should be in this Standard. This clarification is needed to avoid confusion with CIP-004.  We request clarification on the distinction between "connection" and "access."  |  |
| Likes 0  |  |
|  |  |
| We request clarification on the distinction be Likes 0 Dislikes 0  | etween "connection" and "access."  |

| Response                                   |   |
|--|---|
|  |   |
| Kjersti Drott - Tri-State G and T Associ   | ation, Inc 1  |
| Answer                                     | No  |
| Document Name                              |   |
| Comment                                    |   |
| Tri-State does not agree with the new terr | ninology, as it is open to interpretation.  |
| Likes 1                                    | Platte River Power Authority, 5, Archie Tyson   |
| Dislikes 0                                 |   |
| Response                                   |   |
|  |   |
| Andrea Jessup - Bonneville Power Adr       | ninistration - 1,3,5,6 - WECC   |
| Answer                                     | No  |
| Document Name                              |   |
| Comment                                    |   |
| RPA haliayas the SDT should address thi    | s issue with requirements aimed at securing the management plane of EACMS rather than continuing down |

BPA believes the SDT should address this issue with requirements aimed at securing the management plane of EACMS rather than continuing down the path of perimeter-based security and bastion hosts (jump boxes and DMZs) as a sole protection for protected enclaves. This would clarify the recursive effect of "intermediate systems for intermediate systems ad nauseam." This recursive effect problem seems related to the history of previous drafting teams endlessly debating whether a "packet to a port" is "access." There may be a connection (a term with no recognized and easily specified meaning in NIST); however, a connection is generally not considered "authenticated" because "authentication" occurs at a different layer of the OSI model. Authentication is associated with sessions (ephemeral or time limited and specific to an interactive or programmed action) rather than connections (which are typically permanently configured, filtered, and existing at least in potential all the time, more associated with physical infrastructure as well).

There is a problem buried in current discussions of "authenticated" or "provisioned" access that will continue to encourage entities to avoid more advanced technology such as next generation firewalls with role-based permissions. Currently, standard and extended access control lists based upon source, destination, and port/protocol contain no "authentication" mechanism. Filtering based upon source and destination is not a means of authentication. Therefore, a "packet to a port" to an EACMS that is allowed by source IP is a connection, and lacks authentication, but does not constitute "access." Industry typically does not refer to "unauthenticated connections" but rather to authenticated or unauthenticated "sessions." The SDT should conform to this more-common terminology because it tracks better with security principles and the technical implementations of authentication mechanism. Establishing a "session" to an EACMS to manage/configure it would constitute "access", and require authentication and other security controls securing the management plane. Under this construct, requirements can be crafted to avoid the recursive perimeter protection problem.

Entities could design a solution where any unauthenticated connection, using only an IP source address to authorize passing the traffic, would avoid the requirement to detect active sessions entirely. This perverse incentive/loophole must be discouraged.

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

| Response  |   |
|---|---|
|   |   |
| Roger Fradenburgh - Roger Fradenburgl   | n On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh |
| Answer  | No  |
| Document Name   |   |
| Comment   |   |
| While N&ST agrees that recursive requirements should be avoided, we believe the proposed changes do not address the possibility of an EACMS or PACS being located within an established Electronic Security Perimeter with sufficient clarity. N&ST recommends, in addition to moving R3 Parts 3.1 and 3.2 to R2 and eliminating R3, that "Applicability" language for those two Parts be modified to clarify that they apply to EACMS and PACS that are not located within any of the Responsible Entity's Electronic Security Perimeters. |   |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| Dennis Sismaet - Northern California Po   | wer Agency - 6  |
| Answer  | Yes   |
| Document Name   |   |
| Comment   |   |
| please reference Marty Hostler, Northern California Power Agency, comments  |   |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| Monika Montez - California ISO - 2 - WECC   |   |
| Answer  | Yes   |
| Document Name   |   |
| Comment   |   |
| The CAISO supports the ISO/RTO Council Standards Review Committee comments below.  The IRC SRC supports the removal of references to IRA and the undefined term "system to system" from CIP-005-7, requirement R3, Parts 3.1 and 3.2 to clarify that Intermediate Systems are optional and not required for EACMS or PACS.  |   |
|   |   |

Likes 0

| Dislikes 0  |   |
|---|---|
| Response  |   |
|   |   |
|   | If of: Allen Klassen, Westar Energy, 1, 5, 3, 6; Derek Brown, Westar Energy, 1, 5, 3, 6; Marcus Moor, EN, Westar Energy, 1, 5, 3, 6; - Douglas Webb, Group Name Westar-KCPL |
| Answer  | Yes   |
| Document Name   |   |
| Comment   |   |
| Westar Energy and Kansas City Power & Light, the Evergy companies, support and incorporate by reference the Edison Electric Institute's response to Question 2.   |   |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| Marty Hostler - Northern California Powe  | er Agency - 5   |
| Answer  | Yes   |
| Document Name   |   |
| Comment   |   |
| N/A   |   |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| Bobbi Welch - Midcontinent ISO, Inc 2, Group Name ISO/RTO Council Standards Review Committee 2019-03 Supply Chain Risks   |   |
| Answer  | Yes   |
| Document Name   |   |
| Comment   |   |
| The IRC SRC supports the removal of references to IRA and the undefined term "system to system" from CIP-005-7, requirement R3, Parts 3.1 and 3.2 to clarify that Intermediate Systems are optional and not required for EACMS or PACS. |   |
| Likes 0   |   |

| Dislikes 0  |   |
|---|---|
| Response  |   |
|   |   |
| Barry Jones - Barry Jones On Behalf of: Administration, 1, 6; - Barry Jones   | Erin Green, Western Area Power Administration, 1, 6; sean erickson, Western Area Power                                |
| Answer  | Yes   |
| Document Name   |   |
| Comment   |   |
| It is important that the SDT clarify the applic<br>Intermediate Systems and their capabilities  | cable in-scope systems based on their risk to the Bulk Electric System and further clarify the role of and functions. |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| Clay Walker - Clay Walker On Behalf of: John Lindsey, Cleco Corporation, 6, 5, 1, 3; Maurice Paulk, Cleco Corporation, 6, 5, 1, 3; Robert Hirchak, Cleco Corporation, 6, 5, 1, 3; Stephanie Huffman, Cleco Corporation, 6, 5, 1, 3; - Clay Walker |   |
| Answer  | Yes   |
| Document Name   |   |
| Comment   |   |
| Cleco agrees with EEI comments.   |   |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| David Jendras - Ameren - Ameren Services - 3  |   |
| Answer  | Yes   |
| Document Name   |   |
| Comment   |   |
| Ameren agrees with and supports EEI comments.   |   |
| Likes 0   |   |
| Dislikes 0  |   |

| Response  |   |
|---|---|
|   |   |
| Darnez Gresham - Berkshire Hathaway E   | inergy - MidAmerican Energy Co 3  |
| Answer  | Yes   |
| Document Name   |   |
| Comment   |   |
| MidAmerican supports EEI comments   |   |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
|   | Behalf of: Ed Hanson, Pacific Gas and Electric Company, 1, 3, 5; Marco Rios, Pacific Gas and Electric as and Electric Company, 1, 3, 5; - Michael Johnson, Group Name PG&E All Segments               |
| Answer  | Yes   |
| Document Name   |   |
| Comment   |   |
| PG&E agrees with the modification and that it does help clarify the condition of elimination of a recursive requirement (hall of mirrors) and the Requirement is for the EACMS and PACS, and not the BCS, |   |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| John Galloway - John Galloway On Beha   | alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway   |
| Answer  | Yes   |
| Document Name   |   |
| Comment   |   |
|   | n to restore the CIP-005-7 Requirements R3. However, ISO-NE recommends the use of consistent "vendor connections" for both Requirement R2 Part 2.4 and R2.5 and the Requirement R3 Parts 3.1 and 3.2. |
| Likes 0   |   |
| Dislikes 0  |   |
|   |   |

| Response   |   |
|--|---|
|  |   |
| Tho Tran - Tho Tran On Behalf of: Lee Maurer, Oncor Electric Delivery, 1; - Tho Tran |   |
| Answer   | Yes   |
| Document Name  |   |
| Comment  |   |
| Oncor supports EEI's comment.  |   |
| Likes 0  |   |
| Dislikes 0   |   |
| Response   |   |
|  |   |
| Anthony Jablonski - Reliabilityl   | First - 10  |
| Answer   | Yes   |
| Document Name  |   |
| Comment  |   |
| These changes address the issue  | es with undefined terms and broadens the scope appropriately.   |
| Likes 0  |   |
| Dislikes 0   |   |
| Response   |   |
|  |   |
| Bruce Reimer - Manitoba Hydro  | ) - 1   |
| Answer   | Yes   |
| Document Name  |   |
| Comment  |   |
| EACMS and PACS only if the EAR R3.2, but if an EACMS or PACS is                      | requirements for EACMS or PACS, we suggest the SDT should clarify Intermediate Systems are not required for CMS and PACS are located outside ESP. We understand that the SDT didn't use the defined term IRA in R3.1 and s inside an ESP and the vendor remote access meets the IRA definition, does SDT allow a vendor IRA to the EACMS ompliance with IRA requirements of CIP-005 R2? |
| Likes 0  |   |
| Dislikes 0   |   |

| Response  |   |
|---|---|
|   |   |
| Janet OBrien - WEC Energy Group, Inc  | - 5   |
| Answer  | Yes   |
| Document Name   |   |
| Comment   |   |
| Agree with comments submitted separately  | by Tom Breene of WEC  |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| Masuncha Bussey - Duke Energy - 1,3,5,  | 6 - MRO,Texas RE,SERC, Group Name Duke Energy   |
| Answer  | Yes   |
| Document Name   |   |
| Comment   |   |
| Duke Energy generally agrees with the rem CIP-005-7 Requirements R3 Parts 3.1 and | oval of the references to Interactive Remote Access (IRA) and the undefined term system to system from 3.2. |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| Quintin Lee - Eversource Energy - 1, Group Name Eversource Group                  |   |
| Answer  | Yes   |
| Document Name   |   |
| Comment   |   |
|   |   |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |

| (Tacoma, WA), 3, 1, 4, 5, 6; Marc Donalds            | Hien Ho, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; John Merrell, Tacoma Public Utilities son, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; Ozan Ferrin, Tacoma Public Utilities (Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; - Jennie Wike |
|--|--|
| Answer   | Yes  |
| Document Name  |  |
| Comment  |  |
|  |  |
| Likes 0  |  |
| Dislikes 0   |  |
| Response   |  |
|  |  |
| Laurie Williams - PNM Resources - Publi              | c Service Company of New Mexico - 1  |
| Answer   | Yes  |
| Document Name  |  |
| Comment  |  |
|  |  |
| Likes 0  |  |
| Dislikes 0   |  |
| Response   |  |
|  |  |
| Trevor Tidwell - PNM Resources - Public              | Service Company of New Mexico - 3  |
| Answer   | Yes  |
| Document Name  |  |
| Comment  |  |
|  |  |
| Likes 0  |  |
| Dislikes 0   |  |
| Response   |  |
|  |  |
| James Baldwin - Lower Colorado River Authority - 1,5 |  |
| Answer   | Yes  |
| Document Name  |  |
| Comment  |  |

| Likes 0                                 |   |
|---|---|
| Dislikes 0                              |   |
| Response                                |   |
|   |   |
| Teresa Cantwell - Lower Colorado River  | Authority - 5   |
| Answer                                  | Yes   |
| Document Name                           |   |
| Comment                                 |   |
|   |   |
| Likes 0                                 |   |
| Dislikes 0                              |   |
| Response                                |   |
|   |   |
| Andy Fuhrman - Andy Fuhrman On Beha     | lf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman |
| Answer                                  | Yes   |
| Document Name                           |   |
| Comment                                 |   |
|   |   |
| Likes 0                                 |   |
| Dislikes 0                              |   |
| Response                                |   |
|   |   |
| Lana Smith - San Miguel Electric Cooper | ative, Inc 5  |
| Answer                                  | Yes   |
| Document Name                           |   |
| Comment                                 |   |
|   |   |
| Likes 0                                 |   |
| Dislikes 0                              |   |
| Response                                |   |
|   |   |

| No. 1 of Chelan County - 5, Group Name PUD No. 1 of Chelan County |  |
|---|--|
| Yes   |  |
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| Yes   |  |
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|   |  |
| NV Energy - 5   |  |
| Yes   |  |
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|   |  |
|   |  |
| LaTroy Brumfield - American Transmission Company, LLC - 1         |  |
| Yes   |  |
|   |  |
|   |  |
|   |  |

| Likes 0                                  |  |
|--|--|
| Dislikes 0                               |  |
| Response                                 |  |
|  |  |
| Steven Rueckert - Western Electricity Co | pordinating Council - 10                       |
| 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                                 |  |
|  |  |
| Eli Rivera - CenterPoint Energy Houston  | Electric, LLC - NA - Not Applicable - Texas RE |
| Answer                                   | Yes  |
| Document Name                            |  |
| Comment                                  |  |
|  |  |
| Likes 0                                  |  |
| Dislikes 0                               |  |
| Response                                 |  |
|  |  |

| Municipal Utility District, 4, 1, 6, 3, 5; Jan | of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Beth Tincher, Sacramento nie Cutlip, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Kevin Smith, Balancing Authority of mento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 1, 1, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, |
|--|--|
| Answer   | Yes  |
| Document Name                                  |  |
| Comment  |  |
|  |  |
| Likes 0  |  |
| Dislikes 0                                     |  |
| Response                                       |  |
|  |  |
| Richard Jackson - U.S. Bureau of Reclar        | nation - 1   |
| Answer   | Yes  |
| Document Name                                  |  |
| Comment  |  |
|  |  |
| Likes 0  |  |
| Dislikes 0                                     |  |
| Response                                       |  |
|  |  |
| Tony Skourtas - Los Angeles Departmen          | t of Water and Power - 3   |
| Answer   | Yes  |
| Document Name                                  |  |
| Comment  |  |
|  |  |
| Likes 0  |  |
| Dislikes 0                                     |  |
| Response                                       |  |
|  |  |
| Karie Barczak - DTE Energy - Detroit Edi       | son Company - 3, Group Name DTE Energy - DTE Electric  |
| Answer   | Yes  |
| Document Name                                  |  |

| Comment                                |  |
|--|--|
|  |  |
| Likes 0                                |  |
| Dislikes 0                             |  |
| Response                               |  |
|  |  |
| Adrian Andreoiu - BC Hydro and Power   | Authority - 1, Group Name BC Hydro   |
| Answer                                 | Yes  |
| Document Name                          |  |
| Comment                                |  |
|  |  |
| Likes 0                                |  |
| Dislikes 0                             |  |
| Response                               |  |
|  |  |
| Jodirah Green - ACES Power Marketing - | · 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Standard Collaborations |
| Answer                                 | Yes  |
| Document Name                          |  |
| Comment                                |  |
|  |  |
| Likes 0                                |  |
| Dislikes 0                             |  |
| Response                               |  |
|  |  |
| Thomas Breene - WEC Energy Group, In   | c 3  |
| Answer                                 | Yes  |
| Document Name                          |  |
| Comment                                |  |
|  |  |
| Likes 0                                |  |
| Dislikes 0                             |  |
| Response                               |  |

| Jeanne Kurzynowski - CMS Energy -       | Consumers Energy Company - 3,4,5 - RF, Group Name Consumers Energy Company |
|---|--|
| Answer                                  | Yes  |
| Document Name                           |  |
| Comment                                 |  |
|   |  |
| Likes 0                                 |  |
| Dislikes 0                              |  |
| Response                                |  |
|   |  |
| Julie Severino - FirstEnergy - FirstEn  | ergy Corporation - 1, Group Name FirstEnergy                               |
| Answer                                  | Yes  |
| Document Name                           |  |
| Comment                                 |  |
|   |  |
| Likes 0                                 |  |
| Dislikes 0                              |  |
| Response                                |  |
|   |  |
| Jesus Sammy Alcaraz - Imperial Irriga   | ation District - 1   |
| Answer                                  | Yes  |
| Document Name                           |  |
| Comment                                 |  |
|   |  |
| Likes 0                                 |  |
| Dislikes 0                              |  |
| Response                                |  |
|   |  |
| Kyle Hussey - Public Utility District N | o. 2 of Grant County, Washington - 1,4,5,6                                 |
| Answer                                  | Yes  |
| Document Name                           |  |
| Comment                                 |  |

| Likes 0   |                             |  |
|---|-----------------------------|--|
| Dislikes 0  |                             |  |
| Response  |                             |  |
|   |                             |  |
| Scott Langston - Tallahassee Electric (Ci             | ity of Tallahassee, FL) - 1 |  |
| Answer  | Yes                         |  |
| Document Name   |                             |  |
| Comment   |                             |  |
|   |                             |  |
| Likes 0   |                             |  |
| Dislikes 0  |                             |  |
| Response  |                             |  |
|   |                             |  |
| Kelsi Rigby - APS - Arizona Public Servic             | ce Co 5                     |  |
| Answer  | Yes                         |  |
| Document Name   |                             |  |
| Comment   |                             |  |
|   |                             |  |
| Likes 0   |                             |  |
| Dislikes 0  |                             |  |
| Response  |                             |  |
|   |                             |  |
| Joshua Andersen - Salt River Project - 1,3,5,6 - WECC |                             |  |
| Answer  | Yes                         |  |
| Document Name   |                             |  |
| Comment   |                             |  |
|   |                             |  |
| Likes 0   |                             |  |
| Dislikes 0  |                             |  |
| Response  |                             |  |
|   |                             |  |

| Matthew Nutsch - Seattle City Light - 1,3,4,5,6 - WECC |                        |  |
|--|------------------------|--|
| Answer   | Yes                    |  |
| Document Name  |                        |  |
| Comment  |                        |  |
|  |                        |  |
| Likes 0  |                        |  |
| Dislikes 0   |                        |  |
| Response   |                        |  |
|  |                        |  |
| Becky Webb - Exelon - 6                                |                        |  |
| Answer   |                        |  |
| Document Name  |                        |  |
| Comment  |                        |  |
| Exelon has elected to align with EEI in resp           | onse to this question. |  |
| Likes 0  |                        |  |
| Dislikes 0   |                        |  |
| Response   |                        |  |
|  |                        |  |
| Cynthia Lee - Exelon - 5                               |                        |  |
| Answer   |                        |  |
| Document Name  |                        |  |
| Comment  |                        |  |
| Exelon has elected to align with EEI in resp           | onse to this question. |  |
| Likes 0  |                        |  |
| Dislikes 0   |                        |  |
| Response   |                        |  |
|  |                        |  |
| Kinte Whitehead - Exelon - 3                           |                        |  |
| Answer   |                        |  |
| Document Name  |                        |  |

| Comment  |   |
|--|---|
| Exelon has elected to align with EEI in response | onse to this question.  |
| Likes 0  |   |
| Dislikes 0                                       |   |
| Response   |   |
|  |   |
| Daniel Gacek - Exelon - 1                        |   |
| Answer   |   |
| Document Name                                    |   |
| Comment  |   |
| Exelon has elected to align with EEI in response | onse to this question.  |
| Likes 0  |   |
| Dislikes 0                                       |   |
| Response   |   |
|  |   |
| Rachel Coyne - Texas Reliability Entity, I       | nc 10   |
| Answer   |   |
| Document Name                                    |   |
| Comment  |   |
| Please see Texas RE's comments on #1. T          | exas RE also suggests that defining "system-to-system" could add clarification. |
| Likes 0  |   |
| Dislikes 0                                       |   |
| Response   |   |
|  |   |
| Neil Shockey - Edison International - Sou        | ıthern California Edison Company - 5  |
| Answer   |   |
| Document Name                                    |   |
| Comment  |   |

| See EEI's comments |  |  |
|--------------------|--|--|
| Likes 0            |  |  |
| Dislikes 0         |  |  |
| Response           |  |  |
|                    |  |  |

| 3. The SDT is proposing to remove references to Interactive Remote Access (IRA) and the undefined term system to system from CIP-013-2 Requirement R1.2.6 to clarify that CIP-013-2 is about the Supply Chain Cyber Security Risk Management Plan and associated higher-level procurement processes and not the operational requirements implemented through CIP-005-7 and CIP-010-4. Do you agree? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.   |   |  |
|---|---|--|
| Andrea Barclay - Georgia System Opera   | tions Corporation - 4   |  |
| Answer  | No  |  |
| Document Name   |   |  |
| Comment   |   |  |
| <ul> <li>In CIP-005, GSOC identified the teremote access)" in requirement R2 access)" in requirement R2.5; and for In CIP-013, GSOC identified the teremote access).</li> <li>In CIP-013, GSOC identified the teremote access) in requirement R2.5; and for In CIP-013, GSOC identified the teremote aspects for the more technical standards.</li> <li>Utilization of different terms could lead to the in both implementation and compliance enform and objective clearer and simplier. It also must be applied to the incomplete of the incomplete</li></ul> | would offer that references to vendor-initiated remote access should be consistent throughout the body of SOC identified the following different terms that appeared to be used either interchangeably or with the same terms "active vendor remote access sessions (including Interactive Remote Access and system-to-system at the active vendor remote access (including Interactive Remote Access and system-to-system remote active vendor-initiated remote connections" in requirements R3.1 and 3.2.  It is a substant of the same terms in more ways than just reserving technical the interpretation of different scopes or objectives, which would result in confusion, ambiguity, and subjectivity orderment. Conversely, utilization of the same terms in multiple requirements makes the definition, scope, takes implementation more straightforward and easier to audit.  SDT consider defining vendor-initiated remote access and, then, utilize the defined term throughout the eliminate the potential for confusion regarding these undefined terms. To facilitate the SDT's review and comproses the following definition of vendor-initiated remote access:  In a remote access client or other remote access technology using a routable protocol and is inclusive of system communications. Vendor is defined as those persons, companies, or other organizations with whom ract with to supply BES Cyber Systems and related services, but is not inclusive of other NERC registered. |  |
| Likes 0   |   |  |
| Dislikes 0  |   |  |
| Response  |   |  |
|   |   |  |
| Masuncha Bussey - Duke Energy - 1,3,5,  | 6 - MRO,Texas RE,SERC, Group Name Duke Energy   |  |
| Answer  | Yes   |  |
| Document Name   |   |  |
| Comment   |   |  |

| Duke Energy generally agrees with the removal of the references to Interactive Remote Access (IRA). |   |  |
|---|---|--|
| Likes 0   |   |  |
| Dislikes 0  |   |  |
| Response  |   |  |
|   |   |  |
| Janet OBrien - WEC Energy Group, Inc  | 5   |  |
| Answer  | Yes   |  |
| Document Name   |   |  |
| Comment   |   |  |
| Agree with comments submitted separately  | by Tom Breene of WEC  |  |
| Likes 0   |   |  |
| Dislikes 0  |   |  |
| Response  |   |  |
|   |   |  |
| Bruce Reimer - Manitoba Hydro - 1   |   |  |
| Answer  | Yes   |  |
| Document Name   |   |  |
| Comment   |   |  |
| The phrase "coordinating controls" in Part 1  | .2.6 is not defined and should be clarified what it means explicitly. |  |
| Likes 0   |   |  |
| Dislikes 0  |   |  |
| Response  |   |  |
|   |   |  |
| Tho Tran - Tho Tran On Behalf of: Lee M   | aurer, Oncor Electric Delivery, 1; - Tho Tran                         |  |
| Answer  | Yes   |  |
| Document Name   |   |  |
| Comment   |   |  |
| Oncor supports EEI's comment.   |   |  |

| Likes 0   |  |
|---|--|
| Dislikes 0  |  |
| Response  |  |
|   |  |
| John Galloway - John Galloway On Beha                             | alf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway  |
| Answer  | Yes  |
| Document Name   |  |
| Comment   |  |
|   | ices to IRA and the undefined term system-to-system for CIP-013-2. To avoid confusion, ISO-NE 3-2 R1.2.6 language and vendor terms remain consistent with the CIP-005 and CIP-010 supply chain |
| Likes 0   |  |
| Dislikes 0  |  |
| Response  |  |
|   |  |
|   | Behalf of: Ed Hanson, Pacific Gas and Electric Company, 1, 3, 5; Marco Rios, Pacific Gas and Electric as and Electric Company, 1, 3, 5; - Michael Johnson, Group Name PG&E All Segments        |
| Answer  | Yes  |
| Document Name   |  |
| Comment   |  |
| PG&E believes this modification aligns CIP-from the CIP-013 plan. | -013 Requirement P1.2.6 with the modifications made in CIP-005 and removes operational requirements  |
| Likes 0   |  |
| Dislikes 0  |  |
| Response  |  |
|   |  |
| David Jendras - Ameren - Ameren Service                           | tes - 3  |
| Answer  | Yes  |
| Document Name   |  |
| Comment   |  |
| Ameren agrees with and supports EEI com                           | ments.   |

| ohn Lindsey, Cleco Corporation, 6, 5, 1, 3; Maurice Paulk, Cleco Corporation, 6, 5, 1, 3; Robert phanie Huffman, Cleco Corporation, 6, 5, 1, 3; - Clay Walker  |
|--|
| Yes  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
| Erin Green, Western Area Power Administration, 1, 6; sean erickson, Western Area Power   |
| Yes  |
|  |
|  |
| s that CIP-013 Parts R1.2.5 and R1.2.6 are included as security controls required from the relationship of P-013 Supply Chain Cyber Security plan – i.e., when establishing a new supply chain vendor relationship bly chain cyber security relationships. In general, the actions and outputs of a Supply Chain (and CIP-013) maintains a system. |
|  |
|  |
|  |
|  |
|  |
| Group Name ISO/RTO Council Standards Review Committee 2010-03 Supply Chain Risks   |
| Group Name ISO/RTO Council Standards Review Committee 2019-03 Supply Chain Risks   |
| Group Name ISO/RTO Council Standards Review Committee 2019-03 Supply Chain Risks Yes   |
| FIN  |

|   | ences to IRA and the undefined term, "system to system" from CIP-013-2, requirement R1.2.6. In addition, PACS to meet what was directed in FERC Order 850 and the recommendation in the NERC Cyber Security |
|---|---|
| Likes 0                                   |   |
| Dislikes 0                                |   |
| Response                                  |   |
|   |   |
| Marty Hostler - Northern California Powe  | er Agency - 5   |
| Answer                                    | Yes   |
| Document Name                             |   |
| Comment                                   |   |
| N/A                                       |   |
| Likes 0                                   |   |
| Dislikes 0                                |   |
| Response                                  |   |
|   |   |
| Ruida Shu - Northeast Power Coordinati    | ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC Regional Standards Committee  |
| Answer                                    | Yes   |
| Document Name                             |   |
| Comment                                   |   |
| We agree that CIP-013 should remain the F | Plan while CIP-005 and CIP-010 are technical.   |
| Likes 0                                   |   |
| Dislikes 0                                |   |
| Response                                  |   |
|   |   |
| Monika Montez - California ISO - 2 - WEC  | c c   |
| Answer                                    | Yes   |
| Document Name                             |   |
| Comment                                   |   |

| The CAISO supports the ISO/RTO Council Standards Review Committee comments below.   |                                  |
|---|----------------------------------|
| The IRC SRC supports the removal of references to IRA and the undefined term, "system to system" from CIP-013-2, requirement R1.2.6. In addition, we agree with the addition of EACMS and PACS to meet what was directed in FERC Order 850 and the recommendation in the NERC Cyber Security Supply Chain Risks Report. |                                  |
| Likes 0   |                                  |
| Dislikes 0  |                                  |
| Response  |                                  |
|   |                                  |
| Dennis Sismaet - Northern California Por  | wer Agency - 6                   |
| Answer  | Yes                              |
| Document Name   |                                  |
| Comment   |                                  |
| please reference Marty Hostler, Northern C  | alifornia Power Agency, comments |
| Likes 0   |                                  |
| Dislikes 0  |                                  |
| Response  |                                  |
|   |                                  |
| Matthew Nutsch - Seattle City Light - 1,3   | 4,5,6 - WECC                     |
| Answer  | Yes                              |
| Document Name   |                                  |
| Comment   |                                  |
|   |                                  |
| Likes 0   |                                  |
|   |                                  |
| Dislikes 0  |                                  |
| Dislikes 0  Response  |                                  |
|   |                                  |
|   | 3,5,6 - WECC                     |
| Response  | 3,5,6 - WECC<br>Yes              |
| Response  Joshua Andersen - Salt River Project - 1  |                                  |
| Response  Joshua Andersen - Salt River Project - 1  Answer  |                                  |

| Likes 0                                  |   |
|--|---|
| Dislikes 0                               |   |
| Response                                 |   |
|  |   |
| Roger Fradenburgh - Roger Fradenburg     | h On Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh |
| Answer                                   | Yes   |
| Document Name                            |   |
| Comment                                  |   |
|  |   |
| Likes 0                                  |   |
| Dislikes 0                               |   |
| Response                                 |   |
|  |   |
| Kelsi Rigby - APS - Arizona Public Servi | ce Co 5   |
| Answer                                   | Yes   |
| Document Name                            |   |
| Comment                                  |   |
|  |   |
| Likes 0                                  |   |
| Dislikes 0                               |   |
| Response                                 |   |
|  |   |
| Scott Langston - Tallahassee Electric (C | ity of Tallahassee, FL) - 1   |
| Answer                                   | Yes   |
| Document Name                            |   |
| Comment                                  |   |
|  |   |
| Likes 0                                  |   |
| Dislikes 0                               |   |
| Response                                 |   |
|  |   |

Kyle Hussey - Public Utility District No. 2 of Grant County, Washington - 1,4,5,6

| Answer                                    | Yes  |
|---|--|
| Document Name                             |  |
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |
| Dislikes 0                                |  |
| Response                                  |  |
|   |  |
| Jesus Sammy Alcaraz - Imperial Irrigation | n District - 1   |
| Answer                                    | Yes  |
| Document Name                             |  |
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |
| Dislikes 0                                |  |
| Response                                  |  |
|   |  |
| Julie Severino - FirstEnergy - FirstEnerg | y Corporation - 1, Group Name FirstEnergy                                |
| Answer                                    | Yes  |
| Document Name                             |  |
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |
| Dislikes 0                                |  |
| Response                                  |  |
|   |  |
| Jeanne Kurzynowski - CMS Energy - Cor     | nsumers Energy Company - 3,4,5 - RF, Group Name Consumers Energy Company |
| Answer                                    | Yes  |
| Document Name                             |  |
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |

| Dislikes 0                            |  |
|---------------------------------------|--|
| Response                              |  |
|                                       |  |
| Thomas Breene - WEC Energy Group, In  | c 3  |
| Answer                                | Yes  |
| Document Name                         |  |
| Comment                               |  |
|                                       |  |
| Likes 0                               |  |
| Dislikes 0                            |  |
| Response                              |  |
|                                       |  |
| Jodirah Green - ACES Power Marketing  | - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Standard Collaborations |
| Answer                                | Yes  |
| Document Name                         |  |
| Comment                               |  |
|                                       |  |
| Likes 0                               |  |
| Dislikes 0                            |  |
| Response                              |  |
|                                       |  |
| Andrea Jessup - Bonneville Power Admi | inistration - 1,3,5,6 - WECC   |
| Answer                                | Yes  |
| Document Name                         |  |
| Comment                               |  |
|                                       |  |
| Likes 0                               |  |
| Dislikes 0                            |  |
| Response                              |  |
|                                       |  |
| Adrian Andreoiu - BC Hydro and Power  | Authority - 1, Group Name BC Hydro   |
| Answer                                | Yes  |

| Document Name                             |   |
|---|---|
| Comment                                   |   |
|   |   |
| Likes 0                                   |   |
| Dislikes 0                                |   |
| Response                                  |   |
|   |   |
| Anthony Jablonski - ReliabilityFirst - 10 |   |
| Answer                                    | Yes   |
| Document Name                             |   |
| Comment                                   |   |
|   |   |
| Likes 0                                   |   |
| Dislikes 0                                |   |
| Response                                  |   |
|   |   |
| Karie Barczak - DTE Energy - Detroit Edi  | son Company - 3, Group Name DTE Energy - DTE Electric |
| Answer                                    | Yes   |
| Document Name                             |   |
| Comment                                   |   |
|   |   |
| Likes 0                                   |   |
| Dislikes 0                                |   |
| Response                                  |   |
|   |   |
| Tony Skourtas - Los Angeles Departmen     | t of Water and Power - 3                              |
| Answer                                    | Yes   |
| Document Name                             |   |
| Comment                                   |   |
|   |   |
| Likes 0                                   |   |
| Dislikes 0                                |   |

| Response                          |  |
|-----------------------------------|--|
|                                   |  |
| Richard Jackson - U.S. Bureau     | u of Reclamation - 1   |
| Answer                            | Yes  |
| Document Name                     |  |
| Comment                           |  |
|                                   |  |
| Likes 0                           |  |
| Dislikes 0                        |  |
| Response                          |  |
|                                   |  |
| Municipal Utility District, 4, 1, | On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Beth Tincher, Sacramento 6, 3, 5; Jamie Cutlip, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Kevin Smith, Balancing Authority of Goi, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal U |
| Answer                            | Yes  |
| Document Name                     |  |
| Comment                           |  |
|                                   |  |
| Likes 0                           |  |
| Dislikes 0                        |  |
| Response                          |  |
|                                   |  |
| Eli Rivera - CenterPoint Energ    | yy Houston Electric, LLC - NA - Not Applicable - Texas RE  |
| Answer                            | Yes  |
| Document Name                     |  |
| Comment                           |  |
|                                   |  |
| Likes 0                           |  |
| Dislikes 0                        |  |
| Response                          |  |
|                                   |  |
| Laura Nelson - IDACORP - Ida      | iho Power Company - 1  |

| Answer  | Yes                             |
|---|---------------------------------|
| Document Name   |                                 |
| Comment   |                                 |
|   |                                 |
| Likes 0   |                                 |
| Dislikes 0  |                                 |
| Response  |                                 |
|   |                                 |
| Kjersti Drott - Tri-State G and T Associat                      | ion, Inc 1                      |
| Answer  | Yes                             |
| Document Name   |                                 |
| Comment   |                                 |
|   |                                 |
| Likes 0   |                                 |
| Dislikes 0  |                                 |
| Response  |                                 |
|   |                                 |
| Darnez Gresham - Berkshire Hathaway E                           | nergy - MidAmerican Energy Co 3 |
| Answer  | Yes                             |
| Document Name   |                                 |
| Comment   |                                 |
|   |                                 |
| Likes 0   |                                 |
| Dislikes 0  |                                 |
| Response  |                                 |
|   |                                 |
| Steven Rueckert - Western Electricity Coordinating Council - 10 |                                 |
| Answer  | Yes                             |
| D   |                                 |
| Document Name   |                                 |
| Comment Name  |                                 |
|   |                                 |

| Dislikes 0  |       |
|---|-------|
| Response  |       |
|   |       |
| Carl Pineault - Hydro-Qu?bec Production                   | n - 5 |
| Answer  | Yes   |
| Document Name   |       |
| Comment   |       |
|   |       |
| Likes 0   |       |
| Dislikes 0  |       |
| Response  |       |
|   |       |
| LaTroy Brumfield - American Transmission Company, LLC - 1 |       |
| Answer  | Yes   |
| Document Name   |       |
| Comment   |       |
|   |       |
| Likes 0   |       |
| Dislikes 0  |       |
| Response  |       |
|   |       |
| Kevin Salsbury - Berkshire Hathaway - N                   |       |
| Answer  | Yes   |
| Document Name   |       |
| Comment   |       |
|   |       |
| Likes 0   |       |
| Dislikes 0  |       |
| Response  |       |
|   |       |
| Ray Jasicki - Xcel Energy, Inc 1,3,5                      |       |
| Answer  | Yes   |

| Document Name                             |  |
|---|--|
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |
| Dislikes 0                                |  |
| Response                                  |  |
|   |  |
| Meaghan Connell - Public Utility District | No. 1 of Chelan County - 5, Group Name PUD No. 1 of Chelan County          |
| Answer                                    | Yes  |
| Document Name                             |  |
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |
| Dislikes 0                                |  |
| Response                                  |  |
|   |  |
| Lana Smith - San Miguel Electric Cooper   | rative, Inc 5  |
| Answer                                    | Yes  |
| Document Name                             |  |
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |
| Dislikes 0                                |  |
| Response                                  |  |
|   |  |
| Andy Fuhrman - Andy Fuhrman On Beha       | alf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman |
| Answer                                    | Yes  |
| Document Name                             |  |
| Comment                                   |  |
|   |  |
| Likes 0                                   |  |
| Dislikes 0                                |  |

| Response   |                 |
|--|-----------------|
|  |                 |
| Douglas Webb - Douglas Webb On Behalf of: Allen Klassen, Westar Energy, 1, 5, 3, 6; Derek Brown, Westar Energy, 1, 5, 3, 6; Marcus Moor, Westar Energy, 1, 5, 3, 6; Thomas ROBBEN, Westar Energy, 1, 5, 3, 6; - Douglas Webb, Group Name Westar-KCPL |                 |
| Answer   | Yes             |
| Document Name  |                 |
| Comment  |                 |
|  |                 |
| Likes 0  |                 |
| Dislikes 0   |                 |
| Response   |                 |
|  |                 |
| Teresa Cantwell - Lower Colorado River   | Authority - 5   |
| Answer   | Yes             |
| Document Name  |                 |
| Comment  |                 |
|  |                 |
| Likes 0  |                 |
| Dislikes 0   |                 |
| Response   |                 |
|  |                 |
| James Baldwin - Lower Colorado River   | Authority - 1,5 |
| Answer   | Yes             |
| Document Name  |                 |
| Comment  |                 |
|  |                 |
| Likes 0  |                 |
| Dislikes 0   |                 |
| Response   |                 |
|  |                 |
| Trevor Tidwell - PNM Resources - Public Service Company of New Mexico - 3  |                 |
| Answer   | Yes             |

| Document Name                             |   |
|---|---|
| Comment                                   |   |
|   |   |
| Likes 0                                   |   |
| Dislikes 0                                |   |
| Response                                  |   |
|   |   |
| Laurie Williams - PNM Resources - Publi   | c Service Company of New Mexico - 1   |
| Answer                                    | Yes   |
| Document Name                             |   |
| Comment                                   |   |
|   |   |
| Likes 0                                   |   |
| Dislikes 0                                |   |
| Response                                  |   |
|   |   |
| (Tacoma, WA), 3, 1, 4, 5, 6; Marc Donalds | Hien Ho, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; John Merrell, Tacoma Public Utilities con, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; Ozan Ferrin, Tacoma Public Utilities (Tacoma, Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; - Jennie Wike |
| Answer                                    | Yes   |
| Document Name                             |   |
| Comment                                   |   |
|   |   |
| Likes 0                                   |   |
| Dislikes 0                                |   |
| Response                                  |   |
|   |   |
| Quintin Lee - Eversource Energy - 1, Gro  | up Name Eversource Group  |
| Answer                                    | Yes   |
| Document Name                             |   |
| Comment                                   |   |
|   |   |
| Likes 0                                   |   |

| Dislikes 0   |  |
|--|--|
| Response   |  |
|  |  |
| Neil Shockey - Edison International - Sou  | uthern California Edison Company - 5   |
| Answer   |  |
| Document Name  |  |
| Comment  |  |
| See EEI's comments   |  |
| Likes 0  |  |
| Dislikes 0   |  |
| Response   |  |
|  |  |
| Rachel Coyne - Texas Reliability Entity, I   | nc 10  |
| Answer   |  |
| Document Name  |  |
| Comment  |  |
| R1.2.6 and elected instead to define the ter<br>system to system remote connections for E<br>BCS and PCAs" in the Technical Rationale<br>apply to system-to-system remote access d<br>regarding the requirement that EACMS and | Team (SDT) removed references to remote access and system-to-system communications from CIP-013-2 m "remote access" in that proposed requirement as included "vendor-initiated remote connections and ACMS and PACS; and vendor-initiated [Interactive Remote Access (IRA)] and system to system access to document. Texas RE suggests that the SDT instead retain the general requirement that Requirement 1.2.6 directly within the requirement language. Texas RE further suggests that the SDT could address concerns a PACS themselves have intermediate systems by adding language to Requirement R1.2.6 that excludes in the applicability section. Alternatively, the SDT could revise the definition of Interactive Remote Access the proposed changes to CIP-013-2 R1.2.6. |
| Likes 0  |  |
| Dislikes 0   |  |
| Response   |  |
|  |  |
| Daniel Gacek - Exelon - 1  |  |
| Answer   |  |
| Document Name  |  |
| Comment  |  |

| Exelon has elected to align with EEI in response to this question. |                        |  |
|--|------------------------|--|
| Likes 0  |                        |  |
| Dislikes 0   |                        |  |
| Response   |                        |  |
|  |                        |  |
| Kinte Whitehead - Exelon - 3                                       |                        |  |
| Answer   |                        |  |
| Document Name  |                        |  |
| Comment  |                        |  |
| Exelon has elected to align with EEI in response                   | onse to this question. |  |
| Likes 0  |                        |  |
| Dislikes 0   |                        |  |
| Response   |                        |  |
|  |                        |  |
| Cynthia Lee - Exelon - 5   |                        |  |
| Answer   |                        |  |
| Document Name  |                        |  |
| Comment  |                        |  |
| Exelon has elected to align with EEI in response                   | onse to this question. |  |
| Likes 0  |                        |  |
| Dislikes 0   |                        |  |
| Response   |                        |  |
|  |                        |  |
| Becky Webb - Exelon - 6  |                        |  |
| Answer   |                        |  |
| Document Name  |                        |  |
| Comment  |                        |  |
| Exelon has elected to align with EEI in response                   | onse to this question. |  |

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

| 4. The SDT proposes that the modifications in CIP-005-7, CIP-010-4 and CIP-013-2 meet the FERC directives in a cost effective manner by fine tuning the scope of the modified requirements to vendor-initiated remote access. Do you agree? If you do not agree, or if you agree but have suggestions for improvement to enable more cost effective approaches, please provide your recommendation and, if appropriate, technical or procedural justification. |   |
|--|---|
| Barry Jones - Barry Jones On Behalf of: Administration, 1, 6; - Barry Jones  | Erin Green, Western Area Power Administration, 1, 6; sean erickson, Western Area Power  |
| Answer   | No  |
| Document Name  |   |
| Comment  |   |
|  | ment and shift of requirements (Parts) related to their given security objectives within the CIP framework. P to NIST and the SDT should keep this in mind when developing standards.   |
| Likes 0  |   |
| Dislikes 0   |   |
| Response   |   |
|  |   |
|  | Behalf of: Ed Hanson, Pacific Gas and Electric Company, 1, 3, 5; Marco Rios, Pacific Gas and Electric as and Electric Company, 1, 3, 5; - Michael Johnson, Group Name PG&E All Segments   |
| Answer   | No  |
| Document Name  |   |
| Comment  |   |
| completed and full testing has not been con  | ost effective since the work to complete the implementation of the CIP-013-1 set of Standards is just being appleted to determine the cost of that work. As noted in the PG&E input on the first Comment & Ballot for the input on the first Comment & Ballot for the input on the first Comment & Ballot for the input on the first Comment & Ballot for the input of the input |
| Likes 0  |   |
| Dislikes 0   |   |
| Response   |   |
|  |   |
| Kjersti Drott - Tri-State G and T Associat   | ion, Inc 1  |
| Answer   | No  |
| Document Name  |   |
| Comment  |   |
| Do not agree. Tri-State contends that the ed also the monitoring portions of those system  | dits should have been risk-based and only applicable to the control portions of PACS and EACMS, and not ns.   |

| Additionally, time and resources would be saved if the SDT would include language that clarifies that entity-initiated remote access and entity-initiated vendor remote access are not prohibited by CIP standards.  |   |  |
|--|---|--|
| Likes 0  |   |  |
| Dislikes 0   |   |  |
| Response   |   |  |
|  |   |  |
| John Galloway - John Galloway On Behalf of: Michael Puscas, ISO New England, Inc., 2; - John Galloway  |   |  |
| Answer   | No  |  |
| Document Name  |   |  |
| Comment  |   |  |
| Although ISO-NE acknowledges the importance of establishing Supply Chain requirements associated with EACMS and PACS, ISO-NE respectfully believes that it cannot clearly determine if the modified requirements would meet the FERC directives in a cost effective manner because the current CIP-005-6, CIP-010-3 and CIP-013-1 standards have yet to become effective. It is difficult to determine cost-effectiveness when the approach is to build on requirements that the Industry has had limited experience with and limited opportunities for lessons learned or to mature processes and controls. |   |  |
| Likes 0  |   |  |
| Dislikes 0   |   |  |
| Response   |   |  |
| Joe Tarantino - Joe Tarantino On Behalf of: Arthur Starkovich, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Beth Tincher, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Jamie Cutlip, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Kevin Smith, Balancing Authority of Northern California, 1; Nicole Goi, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; Nicole Looney, Sacramento Municipal Utility District, 4, 1, 6, 3, 5; - Joe Tarantino  |   |  |
| Answer   | No  |  |
| Document Name  |   |  |
| Comment  |   |  |
| "vendor-initiate remote access" only seems to apply to R3 of CIP-005-7, so the summary above does not accurately reflect the changes to R2 of CIP-005-7. "Vendor Initiated" should be included in CIP-007 R2.4 and 2.5. Leaving non-vendor initiated remote access in R2.4 and R2.5 is purely administrative in nature. SMUD has implemented this requirement as it is currently written and have found it to be both operationally inefficient and lacking value from a security standpoint.  |   |  |
| roi Ko, tilis question cannot de answered b  | pecause it is unclear what constitutes an authenticated vendor-initiated remote connection. |  |
| Likes 0  |   |  |
| Dislikes 0   |   |  |
| Response   |   |  |

| Richard Jackson - U.S. Bureau of Reclamation - 1   |                                    |  |
|--|------------------------------------|--|
| Answer   | No                                 |  |
| Document Name  |                                    |  |
| Comment  |                                    |  |
| To minimize churn among standard versions and better identify the scope, Reclamation recommends the SDT take additional time to coordinate the modifications in CIP-005-7, CIP-010-4, and CIP-013-2 with other existing drafting teams for related standards; specifically, Projects 2016-02, 2020-03, and 2020-04. This will help minimize the costs associated with the planning and adjustments required to achieve compliance with frequently changing requirements. NERC should foster a standards development environment that will allow entities to fully implement technical compliance with current standards before moving to subsequent versions. This will provide entities economic relief by better aligning the standards for overall improved reliability and by reducing the chances that standards will conflict with one another.  |                                    |  |
| Likes 0  |                                    |  |
| Dislikes 0   |                                    |  |
| Response   |                                    |  |
|  |                                    |  |
| Adrian Andreoiu - BC Hydro and Power   | Authority - 1, Group Name BC Hydro |  |
| Answer   | No                                 |  |
| Document Name  |                                    |  |
| Comment  |                                    |  |
| BC Hydro recommends changing the applicability around PACS to be associated with Medium Impact BCS with ERC instead of just Medium Impact BCS to avoid confusion. The modifications under CIP-010-4 R1.6 to include PACS associated with Medium Impact BES Cyber Systems is otherwise out of alignment in regards to the application of PACS under the CIP standards. The CIP standards under CIP-006-6 require the application of PACS in environments associated with High Impact BES Cyber Systems, Medium Impact BES Cyber Systems with External Routable Connectivity, and associated EACMS and PCAs but do not require this for Medium Impact BES Cyber Systems without ERC. By expanding the requirement and application of PACS to Medium Impact BES Cyber Systems without any qualifier per CIP-010-4 R1.6, it is not clear whether this is implied to bring into scope similar or identical cyber assets to PACS that may be used by entities to restrict and/or monitor access to Medium Impact without ERC BES Cyber Systems but which would not meet the definition of PACS (even though the application of these are not required by the standards). |                                    |  |
| Likes 0  |                                    |  |
| Dislikes 0   |                                    |  |
| Response   |                                    |  |
|  |                                    |  |
| Andrea Jessup - Bonneville Power Administration - 1,3,5,6 - WECC   |                                    |  |
| Answer   | No                                 |  |
| Document Name  |                                    |  |
| Comment  |                                    |  |

| initiated by a vendor, partner, customer, or a significant cost savings and still allows for p a union issue. There is a difference between | better term than determine) remote session activity is the relevant security control. Whether that activity is an employee is irrelevant to the technical capability. Scoping the requirement narrowly does not provide oor security. BPA does not agree with feedback that monitoring for remote sessions by employees could be a monitoring for external sessions vs monitoring employee activity within a session and this requirement the number one threat to critical infrastructure and the ability to actively detect and terminate a session or security control. |
|---|--|
| Likes 0   |  |
| Dislikes 0  |  |
| Response  |  |
|   |  |
| Roger Fradenburgh - Roger Fradenburgh   | on Behalf of: Nicholas Lauriat, Network and Security Technologies, 1; - Roger Fradenburgh  |
| Answer  | No   |
| Document Name   |  |
| Comment   |  |
| N&ST recommends modifying proposed cha  | anges to CIP-005, as per our response to Question 1.   |
| Likes 0   |  |
| Dislikes 0  |  |
| Response  |  |
|   |  |
| Dennis Sismaet - Northern California Po   | wer Agency - 6   |
| Answer  | Yes  |
| Document Name   |  |
| Comment   |  |
| please reference Marty Hostler, Northern C  | alifornia Power Agency, comments   |
| Likes 0   |  |
| Dislikes 0  |  |
| Response  |  |
|   |  |
| Andrea Barclay - Georgia System Operat  | ions Corporation - 4   |
| Answer  | Yes  |
| Document Name   |  |

| GSOC agrees that the SDT has worked to fine tune requirements to ensure security and cost-effectiveness. However, GSOC remains concerned about the scope of EACMSs to which the requirements are applicable and how the current scope increases the overall cost and burden on registered entities. For these reasons, GSOC recommends that the SDT work on additional fine-tuning of the overall scope of applicability as related to EACMSs. |   |  |
|--|---|--|
| cost-effectiveness of these standards. The streamlined requirements will help to furthe  | requirements, "interchangeable" terms, and potential for confusion and ambiguity detract from the potential elimination of multiple, "interchangeable" terms through the use of definitions and defined terms along with r fine-tune the scope and security obligations set forth within these standards. They will also facilitate taking these reliability standards more cost-effective across the ERO Enterprise. |  |
| Likes 0  |   |  |
| Dislikes 0   |   |  |
| Response   |   |  |
|  |   |  |
| Marty Hostler - Northern California Powe   | er Agency - 5   |  |
| Answer   | Yes   |  |
| Document Name  |   |  |
| Comment  |   |  |
| Cost effective is vague. Please provide a c  | ost/benefit justification for any posposed changes.   |  |
| Likes 0  |   |  |
| Dislikes 0   |   |  |
| Response   |   |  |
|  |   |  |
| Janet OBrien - WEC Energy Group, Inc.  | - 5   |  |
| Answer   | Yes   |  |
| Document Name  |   |  |
| Comment  |   |  |
| Agree with comments submitted separately by Tom Breene of WEC  |   |  |
| Likes 0  |   |  |
| Dislikes 0   |   |  |
| Response   |   |  |
|  |   |  |
|  |   |  |

Comment

| Joshua Andersen - Salt River Project - 1  | ,3,5,6 - WECC   |
|---|---|
| Answer                                    | Yes   |
| Document Name                             |   |
| Comment                                   |   |
| We recommend defining the term 'Vendor I  | nitiated Remote Access', and define who is considered a vendor.   |
| Likes 0                                   |   |
| Dislikes 0                                |   |
| Response                                  |   |
|   |   |
| (Tacoma, WA), 3, 1, 4, 5, 6; Marc Donalds | Hien Ho, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; John Merrell, Tacoma Public Utilities son, Tacoma Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; Ozan Ferrin, Tacoma Public Utilities (Tacoma, Public Utilities (Tacoma, WA), 3, 1, 4, 5, 6; - Jennie Wike |
| Answer                                    | Yes   |
| Document Name                             |   |
| Comment                                   |   |
|   |   |
| Likes 0                                   |   |
| Dislikes 0                                |   |
| Response                                  |   |
|   |   |
| Laurie Williams - PNM Resources - Publi   | ic Service Company of New Mexico - 1  |
| Answer                                    | Yes   |
| Document Name                             |   |
| Comment                                   |   |
|   |   |
| Likes 0                                   |   |
| Dislikes 0                                |   |
| Response                                  |   |
|   |   |
| Trevor Tidwell - PNM Resources - Public   | Service Company of New Mexico - 3   |
| Answer                                    | Yes   |
| Document Name                             |   |

| Comment  |                 |  |
|--|-----------------|--|
|  |                 |  |
| Likes 0  |                 |  |
| Dislikes 0   |                 |  |
| Response   |                 |  |
|  |                 |  |
| James Baldwin - Lower Colorado River A   | Authority - 1,5 |  |
| Answer   | Yes             |  |
| Document Name  |                 |  |
| Comment  |                 |  |
|  |                 |  |
| Likes 0  |                 |  |
| Dislikes 0   |                 |  |
| Response   |                 |  |
|  |                 |  |
| Teresa Cantwell - Lower Colorado River   | Authority - 5   |  |
| Answer   | Yes             |  |
| Document Name  |                 |  |
| Comment  |                 |  |
|  |                 |  |
| Likes 0  |                 |  |
| Dislikes 0   |                 |  |
| Response   |                 |  |
|  |                 |  |
| Andy Fuhrman - Andy Fuhrman On Behalf of: Theresa Allard, Minnkota Power Cooperative Inc., 1; - Andy Fuhrman |                 |  |
| Answer   | Yes             |  |
| Document Name  |                 |  |
| Comment  |                 |  |
|  |                 |  |
| Likes 0  |                 |  |
| Dislikes 0   |                 |  |
| Response   |                 |  |

| Lana Smith - San Miguel Electric Cooperative, Inc 5 |   |
|---|---|
| Answer  | Yes   |
| Document Name                                       |   |
| Comment   |   |
|   |   |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| Meaghan Connell - Public Utility District           | No. 1 of Chelan County - 5, Group Name PUD No. 1 of Chelan County |
| Answer  | Yes   |
| Document Name                                       |   |
| Comment   |   |
|   |   |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| Ray Jasicki - Xcel Energy, Inc 1,3,5                |   |
| Answer  | Yes   |
| Document Name                                       |   |
| Comment   |   |
|   |   |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| Kevin Salsbury - Berkshire Hathaway - N             |   |
| Answer  | Yes   |
| Document Name                                       |   |
| Comment   |   |

| Likes 0   |                                 |  |
|---|---------------------------------|--|
| Dislikes 0  |                                 |  |
| Response  |                                 |  |
|   |                                 |  |
| LaTroy Brumfield - American Transmission Company, LLC - 1       |                                 |  |
| Answer  | Yes                             |  |
| Document Name   |                                 |  |
| Comment   |                                 |  |
|   |                                 |  |
| Likes 0   |                                 |  |
| Dislikes 0  |                                 |  |
| Response  |                                 |  |
|   |                                 |  |
| Steven Rueckert - Western Electricity Coordinating Council - 10 |                                 |  |
| Answer  | Yes                             |  |
| Document Name   |                                 |  |
| Comment   |                                 |  |
|   |                                 |  |
| Likes 0   |                                 |  |
| Dislikes 0  |                                 |  |
| Response  |                                 |  |
|   |                                 |  |
| Darnez Gresham - Berkshire Hathaway E                           | nergy - MidAmerican Energy Co 3 |  |
| 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   |   |  |
|  |   |  |
| Tony Skourtas - Los Angeles Departmen            | nt of Water and Power - 3                             |  |
| Answer   | Yes   |  |
| Document Name                                    |   |  |
| Comment  |   |  |
|  |   |  |
| Likes 0  |   |  |
| Dislikes 0                                       |   |  |
| Response   |   |  |
|  |   |  |
| Karie Barczak - DTE Energy - Detroit Edi         | son Company - 3, Group Name DTE Energy - DTE Electric |  |
| Answer   | Yes   |  |
| Document Name                                    |   |  |
| Comment  |   |  |
|  |   |  |
| Likes 0  |   |  |
| Dislikes 0                                       |   |  |
| Response   |   |  |
|  |   |  |
| Anthony Jablonski - ReliabilityFirst - 10        |   |  |
| Answer   | Yes   |  |
| Document Name                                    |   |  |
| Comment  |   |  |
|  |   |  |

| Likes 0                            |   |
|------------------------------------|---|
| Dislikes 0                         |   |
| Response                           |   |
|                                    |   |
| Bruce Reimer - Manitoba Hydro - 1  |   |
| Answer                             | Yes   |
| Document Name                      |   |
| Comment                            |   |
|                                    |   |
| Likes 0                            |   |
| Dislikes 0                         |   |
| Response                           |   |
|                                    |   |
| Jodirah Green - ACES Power Marketi | ng - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Standard Collaborations |
| Answer                             | Yes   |
| Document Name                      |   |
| Comment                            |   |
|                                    |   |
| Likes 0                            |   |
| Dislikes 0                         |   |
| Response                           |   |
|                                    |   |
| Thomas Breene - WEC Energy Group   | o, Inc 3  |
| Answer                             | Yes   |
| Document Name                      |   |
| Comment                            |   |
|                                    |   |
| Likes 0                            |   |
| Dislikes 0                         |   |
| Response                           |   |
|                                    |   |
| Jeanne Kurzynowski - CMS Energy -  | Consumers Energy Company - 3,4,5 - RF, Group Name Consumers Energy Company          |

| Answer  | Yes                                       |
|---|---|
| Document Name   |   |
| Comment   |   |
|   |   |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| Julie Severino - FirstEnergy - FirstEnerg   | y Corporation - 1, Group Name FirstEnergy |
| Answer  | Yes                                       |
| Document Name   |   |
| Comment   |   |
|   |   |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| Jesus Sammy Alcaraz - Imperial Irrigation   | n District - 1                            |
| Answer  | Yes                                       |
| Document Name   |   |
| Comment   |   |
|   |   |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| Kyle Hussey - Public Utility District No. 2 of Grant County, Washington - 1,4,5,6 |   |
| Answer  | Yes                                       |
| Document Name   |   |
| Comment   |   |
|   |   |
| Likes 0   |   |

| Dislikes 0                                |                             |
|---|-----------------------------|
| Response                                  |                             |
|   |                             |
| Scott Langston - Tallahassee Electric (C  | ity of Tallahassee, FL) - 1 |
| Answer                                    | Yes                         |
| Document Name                             |                             |
| Comment                                   |                             |
|   |                             |
| Likes 0                                   |                             |
| Dislikes 0                                |                             |
| Response                                  |                             |
|   |                             |
| Kelsi Rigby - APS - Arizona Public Servi  | ce Co 5                     |
| Answer                                    | Yes                         |
| Document Name                             |                             |
| Comment                                   |                             |
|   |                             |
| Likes 0                                   |                             |
| Dislikes 0                                |                             |
| Response                                  |                             |
|   |                             |
| Matthew Nutsch - Seattle City Light - 1,3 | ,4,5,6 - WECC               |
| Answer                                    | Yes                         |
| Document Name                             |                             |
| Comment                                   |                             |
|   |                             |
| Likes 0                                   |                             |
| Dislikes 0                                |                             |
| Response                                  |                             |
|   |                             |
| Monika Montez - California ISO - 2 - WEC  | CC                          |
| Answer                                    |                             |

| Document Name   |   |  |
|---|---|--|
| Comment   |   |  |
| The CAISO supports the ISO/RTO Council Standards Review Committee comments below.   |   |  |
| While the IRC SRC acknowledges that EACMS and PACS are important to protect and believes it is good business practice to apply supply chain security controls to all Cyber Assets in the enterprise, it also believes that regulatory compliance has the potential to increase the cost of implementation and maintenance. At times, this can be dramatic, to a point where it may be detrimental to a company's overall security posture, thereby ultimately increasing the security risk to the company. NERC and the industry should continue to monitor and evaluate cost versus security benefits. |   |  |
| a CIP-013-1 survey amongst the industry to  | offer CIP-005-6, CIP-010-3 and CIP-013-1 standards have been in effect for at least two years, NERC issue collect recommendations for improvement of the industry's supply chain security standard. This will allow d for Reliability Entities to obtain any key learnings from implementing these protections and from audit from concerns identified by the auditors. |  |
| Likes 0   |   |  |
| Dislikes 0  |   |  |
| Response  |   |  |
|   |   |  |
| Becky Webb - Exelon - 6   |   |  |
| Answer  |   |  |
| Document Name   |   |  |
| Comment   |   |  |
| Exelon has elected to align with EEI in response  | onse to this question.  |  |
| Likes 0   |   |  |
| Dislikes 0  |   |  |
| Response  |   |  |
|   |   |  |
| Cynthia Lee - Exelon - 5  |   |  |
| Answer  |   |  |
| Document Name   |   |  |
| Comment   |   |  |
| Exelon has elected to align with EEI in response  | onse to this question.  |  |
| Likes 0   |   |  |
| Dislikes 0  |   |  |
|   |   |  |

| Response   |   |
|--|---|
|  |   |
| Kinte Whitehead - Exelon - 3   |   |
| Answer   |   |
| Document Name  |   |
| Comment  |   |
| Exelon has elected to align with EEI in resp   | onse to this question.  |
| Likes 0  |   |
| Dislikes 0   |   |
| Response   |   |
|  |   |
| Bobbi Welch - Midcontinent ISO, Inc 2,   | Group Name ISO/RTO Council Standards Review Committee 2019-03 Supply Chain Risks  |
| Answer   |   |
| Document Name  |   |
| Comment  |   |
| security controls to all Cyber Assets in the eand maintenance. At times, this can be drar increasing the security risk to the company. | CMS and PACS are important to protect and believes it is good business practice to apply supply chain enterprise, it also believes that regulatory compliance has the potential to increase the cost of implementation matic, to a point where it may be detrimental to a company's overall security posture, thereby ultimately NERC and the industry should continue to monitor and evaluate cost versus security benefits. |
| a CIP-013-1 survey amongst the industry to   | after CIP-005-6, CIP-010-3 and CIP-013-1 standards have been in effect for at least two years, NERC issue collect recommendations for improvement of the industry's supply chain security standard. This will allow and for Reliability Entities to obtain any key learnings from implementing these protections and from audit of concerns identified by the auditors.   |
| Likes 0  |   |
| Dislikes 0   |   |
| Response   |   |
|  |   |
| Daniel Gacek - Exelon - 1  |   |
| Answer   |   |
| Document Name  |   |
| Comment  |   |

| Exelon has elected to align with EEI in response                                       | onse to this question.  |
|--|---|
| Likes 0  |   |
| Dislikes 0   |   |
| Response   |   |
|  |   |
| Clay Walker - Clay Walker On Behalf of:<br>Hirchak, Cleco Corporation, 6, 5, 1, 3; Ste | John Lindsey, Cleco Corporation, 6, 5, 1, 3; Maurice Paulk, Cleco Corporation, 6, 5, 1, 3; Robert ephanie Huffman, Cleco Corporation, 6, 5, 1, 3; - Clay Walker |
| Answer   |   |
| Document Name  |   |
| Comment  |   |
| No comment on cost effectiveness of the pr   | oposed changes.   |
| Likes 0  |   |
| Dislikes 0   |   |
| Response   |   |
|  |   |
| David Jendras - Ameren - Ameren Servic   | es - 3  |
| Answer   |   |
| Document Name  |   |
| Comment  |   |
| Ameren agrees with and supports EEI com  | ments.  |
| Likes 0  |   |
| Dislikes 0   |   |
| Response   |   |
|  |   |
| Neil Shockey - Edison International - Sou  | ıthern California Edison Company - 5  |
| Answer   |   |
| Document Name  |   |
| Comment  |   |
| See EEI's comments   |   |

| Likes 0   |  |
|---|--|
| Dislikes 0  |  |
| Response  |  |
|   |  |
| Masuncha Bussey - Duke Energy - 1,3,5,6 - MRO,Texas RE,SERC, Group Name Duke Energy         |  |
| Answer  |  |
| Document Name   |  |
| Comment   |  |
| Duke Energy sees potential schedule and cost risks in implementing yet to be defined tools. |  |
| Likes 0   |  |
| Dislikes 0  |  |
| Response  |  |
|   |  |

| 5. Provide any additional comments for the standard drafting team to consider, if desired. |  |  |
|--|--|--|
| Masuncha Bussey - Duke Energy - 1,3,5,   | 6 - MRO,Texas RE,SERC, Group Name Duke Energy  |  |
| Answer   |  |  |
| Document Name  |  |  |
| Comment  |  |  |
| N/A  |  |  |
| Likes 0  |  |  |
| Dislikes 0   |  |  |
| Response   |  |  |
|  |  |  |
| Matthew Nutsch - Seattle City Light - 1,3,   | 4,5,6 - WECC   |  |
| Answer   |  |  |
| Document Name  |  |  |
| Comment  |  |  |
| None   |  |  |
| Likes 0  |  |  |
| Dislikes 0   |  |  |
| Response   |  |  |
|  |  |  |
| Thomas Breene - WEC Energy Group, In   | c 3  |  |
| Answer   |  |  |
| Document Name  |  |  |
| Comment  |  |  |
| The wording in CIP-013 R1.2.6 should mate  | ch the wording in CIP-005-7 R3 P3.2, to wit: "authenticated vendor-initiated remote connections" |  |
| Likes 0  |  |  |
| Dislikes 0   |  |  |
| Response   |  |  |
|  |  |  |

| Jodirah Green - ACES Power Marketing -     | · 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Standard Collaborations   |
|--|--|
| Answer                                     |  |
| Document Name                              |  |
| Comment                                    |  |
| Thank you for the opportunity to comment.  |  |
| Likes 0                                    |  |
| Dislikes 0                                 |  |
| Response                                   |  |
|  |  |
| Andrea Jessup - Bonneville Power Admi      | nistration - 1,3,5,6 - WECC  |
| Answer                                     |  |
| Document Name                              |  |
| Comment                                    |  |
|  | 05-7 R2 but in CIP-005-7 R3, it proposes replacing the term "session" with "connection." Since there is no Terms Used in NERC Reliability Standards or in the NIST online glossary, BPA believes the term be used within the standard. |
| Have one or more method(s) for detecting r | emote access sessions.   |
| Proposed change to CIP-005-7 R3.2:         |  |
| Have one or more method(s) for terminating | g remote access sessions.  |
| Likes 0                                    |  |
| Dislikes 0                                 |  |
| Response                                   |  |
|  |  |
| Adrian Andreoiu - BC Hydro and Power       | Authority - 1, Group Name BC Hydro   |
| Answer                                     |  |
| Document Name                              |  |
| Comment                                    |  |
|  |  |

Further clarity should be provided regarding the definition of "vendor" in relation to staff augmentation consultants/contractors who may performing system integration work or supporting/managing the operation of BES Cyber Assets via remote access. NERC had during CIP-013-1 standard development responses to industry, indicated that it does not consider staff augmentation contractors/consultants who are treated similar to employees

| identify staff augmentation contractors/cons standards to either allow entities the flexibili | C is communicating a different approach in compliance outreach sessions and are expecting entities to sultants to be considered as vendors due to risks they could pose. This should be clarified within the ty to define who vendors are to them <b>or</b> to have the standard drafting team define this clearly through a standard language itself as the current definition within the standard is open to interpretation between pliance burden. |
|---|---|
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| Anthony Jablonski - ReliabilityFirst - 10   |   |
| Answer  |   |
| Document Name   |   |
| Comment   |   |
| located within the same ESP and software i  | t 1.6, PCAs should also be included in the Applicable Systems. When BES Cyber Systems and PCAs are s validated and verified for the BCS but not the PCAs, a mixed-trust security environment is created within cable Systems, it poses additional unnecessary risk to the security of the BES.  |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| Karie Barczak - DTE Energy - Detroit Edi  | son Company - 3, Group Name DTE Energy - DTE Electric   |
| Answer  |   |
| Document Name   |   |
| Comment   |   |
| The language is very clear in this version.   |   |
| Likes 0   |   |
| Dislikes 0  |   |
| Response  |   |
|   |   |
| Richard Jackson - U.S. Bureau of Reclamation - 1  |   |
| Answer  |   |
| Document Name   |   |

| Comment  |   |
|--|---|
| Reclamation recommends a 24-month imple                                      | ementation plan to allow entities flexibility to determine the appropriate implementation actions.  |
| Likes 0  |   |
| Dislikes 0   |   |
| Response   |   |
|  |   |
|  | Behalf of: Ed Hanson, Pacific Gas and Electric Company, 1, 3, 5; Marco Rios, Pacific Gas and Electric as and Electric Company, 1, 3, 5; - Michael Johnson, Group Name PG&E All Segments |
| Answer   |   |
| Document Name  |   |
| Comment  |   |
| PG&E has no additional input regarding this                                  | s Comment & Ballot.   |
| Likes 0  |   |
| Dislikes 0   |   |
| Response   |   |
|  |   |
| Darnez Gresham - Berkshire Hathaway E  | nergy - MidAmerican Energy Co 3   |
| Answer   |   |
| Document Name  |   |
| Comment  |   |
| MEC supports EEI comments  |   |
| Likes 0  |   |
| Dislikes 0   |   |
| Response   |   |
|  |   |
| Neil Shockey - Edison International - Southern California Edison Company - 5 |   |
| Answer   |   |
| Document Name  |   |
| Comment  |   |

| See EEI's comments   |   |
|--|---|
| Likes 0  |   |
| Dislikes 0   |   |
| Response   |   |
|  |   |
| Steven Rueckert - Western Electricity Co   | ordinating Council - 10   |
| Answer   |   |
| Document Name  |   |
| Comment  |   |
| Regarding the Implementation Guidance fo   | r CIP-005-7, we provide the following four (4) comments:  |
| (1) Page 3, 2nd paragraph - Suggest adding context of these EACMS.   | y 'within the Electronic Security Perimeter' as EACMS can reside within the ESP and this appears to be the                  |
| (2) 'However, if an Entity uses the same s<br>System for example) for remote connect   | ystem (Intermediate<br>tions and access into both their BES Cyber Systems and their EACMS,'                                 |
| Change to "However, if an Entity uses the System for example) for remote connect Perimeter,[]"   | same system (Intermediate tions and access into both their BES Cyber Systems and their EACMS within the Electronic Security |
| (3) Page 5, 2b 'Leveraging periodic inventor R2 to assess BES Cyber System classif   | y reviews that may be associated to annual CIP-002-5.1a Requirement ications and architecture'                              |
| Suggest different wording than architecture. Perhaps network topology?   |   |
| (4) Page 7 - While this section contains a "cut and paste" of the Implementation Guidance components of the former Guidelines and Technical Basis (GTB) asis from the CIP-005-6 standard, consider detailing the first use of EAP as it isn't used anywhere prior in the IG. Change 'Responsible Entities should know what traffic needs to cross an EAP' to "Responsible Entities should know what traffic needs to cross an Electronic Access Point (EAP)" |   |
| Likes 0  |   |
| Dislikes 0   |   |
| Response   |   |
|  |   |

| Jose Avendano Mora - Edison International - Southern California Edison Company - 1  |   |  |
|---|---|--|
| Answer  |   |  |
| Document Name   |   |  |
| Comment   |   |  |
| Please see comments submitted by Edison Electric Institute  |   |  |
| Likes 0   |   |  |
| Dislikes 0  |   |  |
| Response  |   |  |
|   |   |  |
| Carl Pineault - Hydro-Qu?bec Production   | 1 - 5   |  |
| Answer  |   |  |
| Document Name   |   |  |
| Comment   |   |  |
| N/A   |   |  |
| Likes 0   |   |  |
| Dislikes 0  |   |  |
| Response  |   |  |
|   |   |  |
| David Jendras - Ameren - Ameren Servic  | es - 3  |  |
| Answer  |   |  |
| Document Name   |   |  |
| Comment   |   |  |
| Ameren agrees with and supports EEI comments.   |   |  |
| Likes 0   |   |  |
| Dislikes 0  |   |  |
| Response  |   |  |
|   |   |  |
| Clay Walker - Clay Walker On Behalf of: John Lindsey, Cleco Corporation, 6, 5, 1, 3; Maurice Paulk, Cleco Corporation, 6, 5, 1, 3; Robert Hirchak, Cleco Corporation, 6, 5, 1, 3; Stephanie Huffman, Cleco Corporation, 6, 5, 1, 3; - Clay Walker |   |  |
| Answer  | priame framman, cieco corporation, c, c, 1, c, ciay trainer |  |

| Document Name  |  |
|--|--|
| Comment  |  |
| Cleco agrees with EEI comments.  |  |
| Likes 0  |  |
| Dislikes 0   |  |
| Response   |  |
|  |  |
| Daniel Gacek - Exelon - 1  |  |
| Answer   |  |
| Document Name  |  |
| Comment  |  |
| Exelon has elected to align with EEI in response to this question.   |  |
| Likes 0  |  |
| Dislikes 0   |  |
| Response   |  |
|  |  |
| Bobbi Welch - Midcontinent ISO, Inc 2,   | Group Name ISO/RTO Council Standards Review Committee 2019-03 Supply Chain Risks |
| Answer   |  |
| Document Name  |  |
| Comment  |  |
| The IRC SRC requests the SDT create individual ballots for each standard included in this project. This would provide flexibility to the industry to support certain aspects of this project while expressing concerns over other aspects. |  |
| Likes 0  |  |
| Dislikes 0   |  |
| Response   |  |
|  |  |
| Lana Smith - San Miguel Electric Cooper  | ative, Inc 5   |
| Answer   |  |
| Document Name  |  |
| Comment  |  |

| We appreciate the SDT efforts.                                     |  |  |
|--|--|--|
| Likes 0  |  |  |
| Dislikes 0   |  |  |
| Response   |  |  |
|  |  |  |
| Kinte Whitehead - Exelon - 3                                       |  |  |
| Answer   |  |  |
| Document Name  |  |  |
| Comment  |  |  |
| Exelon has elected to align with EEI in response to this question. |  |  |
| Likes 0  |  |  |
| Dislikes 0   |  |  |
| Response   |  |  |
|  |  |  |
| Cynthia Lee - Exelon - 5   |  |  |
| Answer   |  |  |
| Document Name  |  |  |
| Comment  |  |  |
| Exelon has elected to align with EEI in response to this question. |  |  |
| Likes 0  |  |  |
| Dislikes 0   |  |  |
| Response   |  |  |
|  |  |  |
| Becky Webb - Exelon - 6  |  |  |
| Answer   |  |  |
| Document Name  |  |  |
| Comment  |  |  |
| Exelon has elected to align with EEI in response to this question. |  |  |

| Likes 0   |  |
|---|--|
| Dislikes 0  |  |
| Response  |  |
|   |  |
| Douglas Webb - Douglas Webb On Beha<br>Westar Energy, 1, 5, 3, 6; Thomas ROBB | If of: Allen Klassen, Westar Energy, 1, 5, 3, 6; Derek Brown, Westar Energy, 1, 5, 3, 6; Marcus Moor, EN, Westar Energy, 1, 5, 3, 6; - Douglas Webb, Group Name Westar-KCPL                                  |
| Answer  |  |
| Document Name   |  |
| Comment   |  |
| Westar Energy and Kansas City Power & Li<br>Question 5.                       | ight, the Evergy companies, support and incorporate by reference the Edison Electric Institute's response to   |
| Likes 0   |  |
| Dislikes 0  |  |
| Response  |  |
|   |  |
| Teresa Cantwell - Lower Colorado River  | Authority - 5  |
| Answer  |  |
| Document Name   |  |
| Comment   |  |
| None.   |  |
| Likes 0   |  |
| Dislikes 0  |  |
| Response  |  |
|   |  |
| Ruida Shu - Northeast Power Coordinati  | ng Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC Regional Standards Committee   |
| Answer  |  |
| Document Name   |  |
| Comment   |  |
|   | andard CIP-013-2 document (page 11), "Requirement R2" should read "Requirement R3". The text indicates er No. 829 directives for entities periodically to reassess selected supply chain cyber security risk |

| management controls (P.46) ". R2 requires the responsible entity to implement its supply chain cyber security risk management plan specified in R1, R3 requires that the responsible entity review the plan specified in R1 every 15 months. |  |
|--|--|
| Likes 0  |  |
| Dislikes 0   |  |
| Response   |  |
|  |  |
| Monika Montez - California ISO - 2 - WEC   | C C  |
| Answer   |  |
| Document Name  |  |
| Comment  |  |
|  | Standards Review Committee comments below.  vidual ballots for each standard included in this project. This would provide flexibility to the industry to expressing concerns over other aspects. |
| Likes 0  |  |
| Dislikes 0   |  |
| Response   |  |
|  |  |
| Andrea Barclay - Georgia System Operation  | tions Corporation - 4  |
| Answer   |  |
| Document Name  |  |
| Comment  |  |
| None   |  |
| Likes 0  |  |
| Dislikes 0   |  |
| Response   |  |
|  |  |

## Comments from EEI

1. The SDT is proposing to restore CIP-005-7 Requirement R2 Parts 2.4 and 2.5 to the original approved CIP-005-6 language and Applicable Systems. In addition, the SDT is proposing the newly formed Requirement R3 be dedicated to addressing vendor remote access for

|    | EACMS and PACS, specifically. Do you agree? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.  |
|----|--|
|    | ⊠ Yes  |
|    | □ No   |
|    | Comments: While EEI supports the changes made by the SDT, which addressed prior EEI member comments related to CIP-005-7 Requirement R2 Parts 2.4 and 2.5, we recommend the SDT revise "vendor remote access" to "vendor initiated remote access" or explain why all vendor remote access needs to be evaluated for Parts 2.4 and 2.5.   |
|    | EEI supports the current proposed draft language for Requirement R3.   |
| 2. | The SDT is proposing to remove the references to Interactive Remote Access (IRA) and the undefined term system to system from CIP-005-7 Requirements R3 Parts 3.1 and 3.2 to clarify Intermediate Systems are not required for EACMS or PACS, and to address industry's concerns about recursive requirements ('hall of mirrors'). Do you agree? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.   |
|    | ⊠ Yes  |
|    | □ No   |
|    | Comments: EEI supports the changes made by the SDT to address prior EEI member comments related to the "hall of mirrors" issue.  |
| 3. | The SDT is proposing to remove references to Interactive Remote Access (IRA) and the undefined term system to system from CIP-013-2 Requirement R1.2.6 to clarify that CIP-013-2 is about the Supply Chain Cyber Security Risk Management Plan and associated higher-level procurement processes and not the operational requirements implemented through CIP-005-7 and CIP-010-4. Do you agree? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification. |
|    | ⊠ Yes  |
|    | □ No   |
|    | Comments:  |
| 4. | The SDT proposes that the modifications in CIP-005-7, CIP-010-4 and CIP-013-2 meet the FERC directives in a cost effective manner by fine tuning the scope of the modified requirements to vendor-initiated remote access. Do you agree? If you do not agree, or if you agree but have suggestions for improvement to enable more cost effective approaches, please provide your recommendation and, if appropriate, technical or procedural justification.  |
|    | Yes  |
|    | □ No   |
|    | Comments: EEI has no comment on the cost effectiveness of the proposed changes.  |
| 5. | Provide any additional comments for the standard drafting team to consider, if desired.  |

Comments: EEI previously provided comments that CIP-005-7 did not provide sufficient clarity regarding contractors who are essential to the reliable operation of the BES. Specifically, the Reliability Standard did not provide a mechanism that exempted contractors who provided essential contract services. Although CIP-005-7 does not explicitly provide a defined process for exempting these contractors, the draft Implementation guidance makes it clear that these types of contractors are to be handled in a manner similar to the staff of a registered entity.