

Meeting Agenda

Project 2016-02 Modifications to CIP Standards Drafting Team

May 8-11, 2018

David Revill, Standard Drafting Team (SDT) Co-chair, called the meeting to order. Jordan Mallory reviewed the NERC Antitrust Compliance Guidelines and Public Announcement. Attachment 1-4 identifies the SDT members who attended the May 8–11, 2018, SDT meeting.

Christine Hasha, SDT Co-chair reminded the SDT that this will be her last meeting as a drafting team member. She plans to attend as an active observer when her schedule allows.

Jordan Mallory thanked Christine for all her hard work and dedication supporting the SDT over the years and wished her well. David Revill also thanked Christine for her time on the SDT and stated that she will be greatly missed by the team.

In the process of resigning from the SDT, Christine also relinquished her position as the SDT co-chair. Jay Cribb assumed the co-chair position pending approval of the Standards Committee (SC) to be requested during the June 13, 2018 meeting.

D. Revill reviewed the team goal for the week. Tuesday and Wednesday the SDT focused on reviewing CIP-002 and CIP-012 comments received from the industry and determining if the team needs to make any modifications to the standard or its associated documents. At the beginning of the meeting, the SDT determined that as long as CIP-002 and CIP-012 comments received were reviewed, the team would move forward to continue discussion on virtualization.

CIP-002 Standard

The SDT reviewed all of the comments received and drafted a Consideration of Comments Summary Response, which can be accessed through the Project 2016-02 Modifications to the CIP Standards SDT [project page](#).

The main issues discussed were:

1. The aggregated weighted value of the 6,000 threshold.
2. Planned and unplanned change language.

The team held in-depth discussions on the language of the planned and unplanned change section of the CIP-002 standard. Ballot three (3) was the first in which industry was asked to review and vote on the planned and unplanned change language.

3. FAC SOL Impacts. The FAC SOL SDT will be retiring FAC-010 and CIP-002 will need to be modified. Due to the CIP SDT currently making modifications, a standards authorization request (SAR) has been drafted for the CIP SDT to make those modifications provided by the FAC SOL SDT.

Control Center Definition

The proposed changes to the definition of Control Center addressed issues in CIP-012 with generation plants or transmission substations that may be dual-classified as Control Centers also but should not be subject to CIP-012. in any other context. The industry comments pointed out several issues with the proposed definition changes and other issues with the current definition. The SDT determined that this matter is beyond the scope of the team's SAR and and consequently modified CIP-012 by adding a Control Center exemption.

The SDT adjourned for day one at 5:20 p.m. central time.

CIP-012 Standard

The SDT reviewed all of the comments received and drafted a Consideration of Comments Summary Response. This is posted on the Project 2016-02 Modifications to the CIP Standards SDT [project page](#).

The SDT continued to modify CIP-012's Control Center exemption language. The team drafted the exemption language such that these field sites that could end up being dual-classified as a Control Center, but that communicate only their own data back another Control Center are the only Control Centers that are exempt from CIP-012.

In addition to the exemption language, the SDT added back the CIP Exceptional Circumstances language to Requirement R1. The requirement also now provides clarifying language that entities are not required to include oral communication in their plans.

NERC Staff requested that the SDT, prior to the next day's meeting, review the Virtualization White Paper drafted by a CIP ad hoc group.

The SDT concluded day two's business and adjourned at 5:05 p.m. central time.

Virtualization

Jay Cribb presented to the Virtualization White Paper to the SDT. He touched on the following points:

1. Where CIP was yesterday, where it is today and where it will be tomorrow.
2. The suggested path forward; retire the Cyber Asset and BES Cyber Assest definition and move the focus up to the system level. The SDT could focus on making standards less prescriptive and more objective-based.

Following J. Cribb's presentation the SDT formed two teams to review changes that would be needed within the body of CIP standards. Team one reviewed CIP-002, CIP-005, and CIP-006 and team two reviewed CIP-003, CIP-004, CIP-008, CIP-009, CIP-011 and the following NERC Glossary of definitions: Electronic Access Control and Monitoring Systems (EACS), Electronic Access Point (EAP), Protected Cyber Assets (PCA), Physical Access Control Systems (PACS), Intermediate System (IS), Interactive Remote Access (IRA).

The SDT completed its business and adjourned day three at 5:15 p.m. central time.

Virtualization Continued

Team one provided an overview from their discussion of CIP-002, CIP-005, and CIP-006.

1. Some requirements will need to be re-written to be more objective-based instead of prescriptive.
2. The terms Cyber Assets or BES Cyber Assets will need to be removed, if retired.
3. Integration of virtualization will allow for backward compatibility
4. Draft controls that will allow the entity to determine the architecture.
5. Security will need to be tightened within Requirement R2.

Team two provided an overview from their discussion of CIP-003, CIP-004, CIP-008, CIP-009, and CIP-011.

1. Proposed retirement of the PCA and PCS definitions. If retired, this will require entities to update their documentation.
2. Clean up other definitions and standard requirements that use the terms CA and BCA.
3. Develop a new definition:

Management Interface: Interface used to define, control and communicate information needed to enable unrelated objects to co-function. It manages all CICS regions and their resources from a single control point, using a Web browser. It can manage individual resources, collections of resources, individual CICS regions, and collections of CICS regions in a CICPlex.

The Management Interface can perform resource monitoring and real-time analysis to monitor the health of your CICS regions. It can generate notifications for conditions of interest and can automatically modify resources that are not in the required state.

Virtualization Continued

D. Revill and J. Mallory will co-author a project plan and send to the team for review. The team will vote on the project plan during one of its conference calls.

Future In-person Meetings

1. June 19-21, 2018 (NERC – Atlanta, GA)
2. July 10-12, 2018 (WECC – Salt Lake City, UT)

The SDT completed its business adjourned at 11:30 a.m. central time.

Should the CIP SDT modify the planned and unplanned changes language to specifically address maintenance/replacement equipment?

| Attachment 1 – Day 1 (May 8, 2018) | | | | |
|---|---------------------------------------|-----------------------------|---------------------------|--|
| Name | Company | Member/ Observer | Straw Vote (X) | Conference Call/Web (Y/N) |
| Christine Hasha | Electric Reliability Council of Texas | Co-Chair | N | Y |
| David Revill | GSOC | Co-Chair | N | Y |
| Steven Brain | Dominion Energy | Member | N | Y |
| Jay Cribb | Southern Company | Member | N | Y |
| Jennifer Flandermeyer | Kansas City Power and Light | Member | | N |
| Tom Foster | PJM Interconnection | Member | N | Y |
| Forrest Krigbaum | Bonneville Power Administration | Member | | N |
| Mark Riley | Calpine | Member | N | Y |
| Jordan Mallory | NERC | NERC Staff | | Y |
| Mat Bunch | NERC | NERC Staff | | Y |
| Shamai Elstein | NERC | NERC Staff | | N |
| Marisa Hecht | NERC | NERC Staff | | Y |
| Tom Hofstetter | NERC | NERC Staff | | |
| | | | | |
| Lonnie Ratliff | NERC | NERC Staff | | |
| Mike Keane | FERC | FERC | | Y |
| Jan Bargaen | FERC | FERC | | |

Attachment 1 – Day 1 (May 8, 2018)

| Name | Company | Member/ Observer | Straw Vote (X) | Conference Call/Web (Y/N) |
|----------------|------------------------------------|---------------------|-------------------|---------------------------------|
| y | FERC | FERC | | |
| Margaret Scott | FERC | FERC | | |
| Ken Lanehome | Bonneville Power Administration | PMOS | | Y |
| Kirk Rosener | CPS Energy | PMOS | | Y |
| | | | | |

Attachment 2 – Day 2 (May 9, 2018)

| Name | Company | Member/ Observer | Straw Vote (X) | Conference Call/Web (Y/N) |
|--------------------------|--|---------------------|-------------------|---------------------------------|
| Christine Hasha | Electric Reliability Council of Texas | Co-Chair | | Y |
| David Revill | GSOC | Co-Chair | | Y |
| Steven Brain | Dominion Energy | Member | | Y |
| Jay Cribb | Southern Company | Member | | Y |
| Jennifer Flandermeyer | Kansas City Power and Light | Member | | N |
| Tom Foster | PJM Interconnection | Member | | Y |
| Forrest Krigbaum | Bonneville Power Administration | Member | | N |
| Mark Riley | Calpine | Member | | Y |

Attachment 2 – Day 2 (May 9, 2018)

| Name | Company | Member/ Observer | Straw Vote (X) | Conference Call/Web (Y/N) |
|----------------|------------------------------------|---------------------|-------------------|---------------------------------|
| Jordan Mallory | NERC | NERC Staff | | Y |
| Mat Bunch | NERC | NERC Staff | | Y |
| Shamai Elstein | NERC | NERC Staff | | N |
| Marisa Hecht | NERC | NERC Staff | | Y |
| Tom Hofstetter | NERC | NERC Staff | | N |
| Lonnie Ratliff | NERC | NERC Staff | | N |
| Mike Keane | FERC | FERC | | Y |
| Jan Bargaen | FERC | FERC | | Y |
| Margaret Scott | FERC | FERC | | N |
| Ken Lanehome | Bonneville Power Administration | PMOS | | Y |
| Kirk Rosener | CPS Energy | PMOS | | Y |

Attachment 3 – Day 3 (May 10, 2018)

| Name | Company | Member/ Observer | Straw Vote (X) | Conference Call/Web (Y/N) |
|-----------------|--|---------------------|-------------------|---------------------------------|
| Christine Hasha | Electric Reliability Council of Texas | Co-Chair | | Y |
| David Revill | GSOC | Co-Chair | | Y |
| Steven Brain | Dominion Energy | Member | | Y |

Attachment 3 – Day 3 (May 10, 2018)

| Name | Company | Member/ Observer | Straw Vote (X) | Conference Call/Web (Y/N) |
|-----------------------|---------------------------------|---------------------|-------------------|---------------------------------|
| Jay Cribb | Southern Company | Member | | Y |
| Jennifer Flandermeyer | Kansas City Power and Light | Member | | N |
| Tom Foster | PJM Interconnection | Member | | N |
| Forrest Krigbaum | Bonneville Power Administration | Member | | Y |
| Mark Riley | Calpine | Member | | Y |
| Jordan Mallory | NERC | NERC Staff | | Y |
| Mat Bunch | NERC | NERC Staff | | N |
| Shamai Elstein | NERC | NERC Staff | | N |
| Marisa Hecht | NERC | NERC Staff | | Y |
| Soo Jin Kim | NERC | NERC Staff | | Y |
| Tom Hofstetter | NERC | NERC Staff | | N |
| Lonnie Ratliff | NERC | NERC Staff | | N |
| Mike Keane | FERC | FERC | | Y |
| Jan Bargaen | FERC | FERC | | Y |
| Margaret Scott | FERC | FERC | | N |
| Ken Lanehome | Bonneville Power Administration | PMOS | | Y |
| Kirk Rosener | CPS Energy | PMOS | | Y |
| | | | | |

Attachment 4 – Day 4 (May 11, 2018)

| Name | Company | Member/ Observer | Straw Vote (X) | Conference Call/Web (Y/N) |
|--------------------------|--|---------------------|-------------------|---------------------------------|
| Christine Hasha | Electric Reliability Council of Texas | Co-Chair | | N |
| David Revill | GSOC | Co-Chair | | Y |
| Steven Brain | Dominion Energy | Member | | N |
| Jay Cribb | Southern Company | Member | | Y |
| Jennifer Flandermeyer | Kansas City Power and Light | Member | | N |
| Tom Foster | PJM Interconnection | Member | | N |
| Forrest Krigbaum | Bonneville Power Administration | Member | | Y |
| Mark Riley | Calpine | Member | | Y |
| Jordan Mallory | NERC | NERC Staff | | Y |
| Mat Bunch | NERC | NERC Staff | | N |
| Shamai Elstein | NERC | NERC Staff | | N |
| Marisa Hecht | NERC | NERC Staff | | Y |
| Soo Jin Kim | NERC | NERC Staff | | N |
| Tom Hofstetter | NERC | NERC Staff | | N |
| Lonnie Ratliff | NERC | NERC Staff | | N |
| Mike Keane | FERC | FERC | | Y |

Attachment 4 – Day 4 (May 11, 2018)

| Name | Company | Member/ Observer | Straw Vote (X) | Conference Call/Web (Y/N) |
|----------------|------------------------------------|---------------------|-------------------|---------------------------------|
| Jan Bargaen | FERC | FERC | | N |
| Margaret Scott | FERC | FERC | | N |
| Ken Lanehome | Bonneville Power Administration | PMOS | | N |
| Kirk Rosener | CPS Energy | PMOS | | Y |
| | | | | |