

Meeting Notes

Project 2016-02 Modifications to CIP Standards Drafting Team

August 22-23, 2017 | 9:00 a.m. – 5:00 p.m. Pacific
August 24, 2017 | 8:30 a.m. – Noon Pacific

Water Resources Education Center
4600 SE Columbia Way/Bruce E. Hagensen Community Room
Vancouver, WA 98661

Administrative

1. Review NERC Antitrust Compliance Guidelines and Public Announcement

Katherine Street reviewed the NERC Antitrust Compliance Guidelines and noted that the meeting was public.

2. Safety briefing; Introductions, determination of quorum, chairs' remarks

David Revill welcomed the CIP standard drafting team (SDT) and observers, reviewed safety protocols, and reviewed the meeting agenda and objectives.

Agenda Items

1. Modifications for Virtualization and CIP definitions

The SDT reviewed the status of issue areas "CIPv5 Issues for Standard Drafting Team Consideration" (V5TAG Transfer Document). Some issues were address through "Lessons Learned" documents written by the V5TAG, and the SDT noted that several of these documents have been formally endorsed by the ERO as Compliance Implementation Guidance. Some relevant Lessons Learned documents are included below:

- i. [CIP-002-5: BES Cyber Assets](#)
- ii. [CIP-002-5.1: Communications and Networking Cyber Assets](#)
- iii. [Communications to BES Cyber Systems and BES Cyber Assets](#)

The SDT discussed its work in the virtualization area, including the potential introduction of new requirements to address potential risks associated with shared infrastructure for virtual technologies. The team continued to discuss the treatment of centralized management consoles associated with virtualization and the need to review of the EACMS definition. Doing so would result in determining whether or not changes to the current EACMS concept may be necessary to handle virtual technologies, as well as the expanding availability of cloud-based advanced security services.

Given the expanding availability of cloud-based advanced security services, the SDT discussed considerations for treatment of BES Cyber System Information when stored in cloud environments. The SDT also further discussed the development of virtualization implementation guidance for

currently enforceable CIP Standards as well as any potential new virtualization requirements.

The SDT reviewed the concept of virtualization as it relates to CIP-005, Parts 1.6 – 1.8, namely the applicable systems, which are: (i) High Impact BES Cyber Systems residing in a Multi-instance environment and its associated CMS; and (ii) Medium Impact BES Cyber Systems residing in a Multi-instance environment and its associated CMS.

The SDT is continuing to evaluate how best to address the areas outlined in the V5TAG Transfer Document and plans to have another informal comment period to solicit industry feedback.

2. Review Next Steps

The SDT determined the following next steps: (i) post CIP-002 for formal ballot and comment in mid-September 2018; (ii) post informal comment form for Virtualization in October 2018; (iii) prepare formal ballot and comment for CIP Exceptional Circumstances (CEC); (iv) address comments received from formal ballot and comment period on CIP-012; and (v) address comments received from informal posting of Control Center Definition and CIP-012 Technical Rationale.

3. Future meetings

- a. September 22-24 –Kansas City, KS

4. Adjourn