Minutes for Working Group C37.30.1 April 19, 2021

"Virtual Charlotte" Videoconference

- The working group met for two sessions on April 19th.
- 37 participants were in attendance. See the attached attendance roster.
- 18 out of 27 working group members were in attendance achieving a quorum.
- WG Chair Carl Reigart informed the WG that the meeting would be recorded to aid in generating the meeting minutes and asked for any objections.
 - No participants objected.
- Attendees introduced themselves with their affiliations.
- WG Chair Carl Reigart addressed the members and guests of the WG to identify any patent conflicts.
 - There were no members or guests that brought up any patent conflicts to the WG.
- WG Chair went through IEEE SA copyright slides and informed the WG the following from the PowerPoint slides:
 - IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
 - Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy;
 - WG Chair went through Section 5.7 Rated fault making current and subclauses from meeting minutes from previous meeting and current draft.
 - WG Chair had difficulty with the draft and wanted to dig deeper into what to detail out into the subclauses.
 - WG Chair enlisted help from working group to help draft section.
 - Added Subclause 5.7.1 Fault-making current rating for fault initiating switches
 - Fault initiating switches are required to have a prospective fault-making current rating. [...] The preferred fault-making current ratings are given in Table 11.
 - Discussion was held about testing difficulty to hit certain peak value. Hard to time it correctly to hit peak.
 - Discussion was held that the test document would better capture this difficulty and prospective value.
 - Added subclause 5.7.2 Fault-making current rating for interrupter switches
 - Interrupter switches may have a fault-making current rating.
 The preferred fault-making current ratings are given in Table 11.
 - Went through comment where caution repeated verbiage from section
 5.7
 - Danny Hoss proposed to remove 5.7.2 and make subclause 5.7.3 subclause 5.7.2.
 - Pete Kowalik proposed to remove the dependent part from 5.7.

- Caution was revised.
 - Only switches having a closing speed that is independent of operating personnel may have a faultmaking current rating.
- WG went through 6.8.2 Fault initiating switches nameplate requirements.
 - Removed m) and Nameplate for fault-initiating switches shall carry all the information required in 6.8.1 except e), f), g), and j). WG moved expected switching endurance at rated making current and bullet m) in 6.8.1. WG added Note to ensure that m) only applies to fault initiating switches.
 - Devki Sharma proposed that we create table similar to Table 1 and have markings for the nameplate requirements.
 - No further discussion.
 - Vote to accept wording from first bullet was taken with 3 nay's and 13 yea's. One abstained or was muted. Wording was accepted due to majority.
- First session adjourned at 11:55 AM.
- The second session convened at 1:30 PM
- WG Chair went through Annex B comments
 - Went through Table 1 IEEE C37.36b-1990.
 - Compared minimum phase clearance to grounded objects from AIEE 1954 report, NEMA SG-6 1974 (revised 1979), (NEMA) C37.32-1990 Table 3, IEEE C37.36b-1990 Table 1, IEEE C37.32-1996 Table 5, 1427-2006 (2020), IEEE C37.30.1-2011 Table 14, IEEE C37.30.1-2011 Table B.1, IEEE PC37.30.1/D4 Table B.1
 - Compared calculated maximum arc reach from IEEE C37.36b-1990 Table 1, IEEE C37.30.1-2011 Table B.1, and IEEE PC37.30.1/D4 Table B.1
 - o WG held discussion and consensus was that WG did not want to revise Table 14.
 - WG Chair started recording at 2:02 PM and went through comparison again per Devki Sharma request.
 - Pete Kowalik brought up discussion on where some of the historical values possibly could have come from.
 - WG reviewed C37.36b Minimum phase clearance to grounded objects.
 - Column 3 was mislabeled, and the values were minimum phase to ground clearance plus arc reach.
 - WG Chair suggested that he work on rewording title and reconvene at later date.
 - WG members were all in favor of further review for Annex B.
- WG Chair will review Table B.1 and ask for working group meeting beginning to mid-May.
 - o Doodle poll will be sent out for WG availability.
- Second session adjourned 2:27 PM.

WG Secretary

| WG Secretary Name | Affiliation | Member/Guest | Attendance Session 1 | Attendance Session 2 |
|--------------------|---------------------------|--------------|-------------------------|-------------------------|
| Brian Alexander | S&C Electric Canada | G | X | X |
| Jacob Blake | Hubbell Power Systems | Secretary | Х | Х |
| Brett Boles | Southern Company | M | Х | Х |
| Steven Brown | Allen & Hoshall | G | Х | |
| Timothy Cook | Pascor Atlantic | M | Х | Х |
| Jeramie Cooper | Eaton | M | X | Х |
| Charles Corley | Eaton | G | Х | |
| Charles Colley | DeCesaro Consulting | | | |
| Frank DeCesaro | Services | M | x | |
| | Royal Switchgear | | | |
| Steven Donahue | Manufacturing | M | X | |
| Chris Ekpoudom | Southern States | G | Х | Х |
| Richard Frye | Eaton | G | Х | |
| - | Southern California | | | |
| Ilya Glinsky | Edison | M | X | |
| Francisco | Southern California | | | Х |
| Guzman | Edison | M | | |
| John Hall | TVA | M | X | |
| Danny Hoss | Southern States | M | Х | X |
| James Houston | Southern Company | M | X | X |
| Bill Hurst | GE | M | Х | X |
| John Kaminski | Siemens | M | Х | X |
| lan Klein | Hubbell Power Systems | G | Х | Х |
| Pete Kowalik | Cleaveland Price | М | Х | |
| Scott Lanning | S&C Electric | G | Х | |
| Jeremy Moore | Pascor Atlantic | G | Х | Х |
| Christopher | | | | |
| Morton | Powertech Labs, INC. | G | Х | |
| Laura Reid | Hubbell Power Systems | M | X | X |
| Carl Reigart | Hubbell Power Systems | Chair | Х | X |
| David Rhein | Hubbell Power Systems | G | Х | X |
| Brent | | | | |
| Richardson | Hubbell Power Systems | G | X | |
| Caryn Riley | Georgia Tech/NEETRAC | G | X | |
| Rob Ross | Cleaveland Price | G | Х | X |
| Devki Sharma | Entergy | М | Х | Х |
| Jon Spencer | Utility Solutions | М | Х | |
| | Mitsubishi Electric Power | | | |
| Sushil Shinde | Products | G | X | |
| Joseph Usner | AEP | M | X | Х |
| Adam Voyles | Ameren | G | | X |

| James Wenzel | Eaton | G | X | |
|--------------|-----------------------|---|---|---|
| Charles | | | | Х |
| Worthington | Hubbell Power Systems | G | X | |
| Xin Zhou | Eaton | G | X | |