IEEE PES Switchgear Committee Meeting
K1 – C37.122 IEEE Standard for High Voltage Gas-Insulated Substations Rated Above 52kV
San Diego, CA – October 9, 2019

Chair: Ryan Stone
Vice Chair: Arnaud Ficheux
Secretary: Jennings Graham (temporary)

1. Meeting called to order at 8am. Attendance was recorded.
2. Secretary presented the agenda
   Recording of attendance
   Call for Notification of Essential patent Claims & other Guidelines for IEEE Working Group Mtg.
   Review of officers and previous minutes
      Review of working group assignments & proposed changes to draft
      Ratings for bus charging current
   Proposal for kinematic chain testing requirements
   New assignments and next meetings
   Adjournment
3. Call for Notification of Essential Patent Claims & Other Guidelines for IEEE Working Group Mtgs were reviewed. No disclosures of any Essential Patent Claims were made after the call for patent claims was given.
4. Review of Officers and Previous Minutes:
   a. Ryan Stone (Chair) not in attendance, Jennings Graham (temporary Secretary) led the meeting. No other officers were in attendance.
   b. It was determined that a quorum had not been established during the meeting, so not official motion to approve minutes was issued – no comments on the minutes were issued
5. Changes to the previous version of the draft were strictly reviewed based on proposal from those assigned previously:
   a. Definition of gas-insulated substation (GIS): parenthetical text was added to include "also commonly known as gas-insulated switchgear."
   b. Section 5.2, rated insulation level - the following text was added regarding breaker-rated insulation: "In the event of a conflict in circuit breaker dielectric test levels between this documents and IEEE Std C37.06, this document shall take precedence."
      i. It was suggested to change the reference of IEEE Std. C37.06 to IEEE Std. C37.04
   c. Section 5.10, rated bus-transfer voltage and current of disconnect switches: text to be revised to avoid copyright issues with IEC (ref. IEC 62271-102: 2018)
   d. Section 6: "Insulating gas" is used in order to be more general than "SF6 Gas."
   e. Section 6 - added the following text regarding hollow conductors: "Hollow primary conductors shall be properly vented at all times to allow for proper gas filling and gas evacuation."

f. Section 6.3.3 bonding of enclosures: clarification of bonding vs. grounding connections (phase-to-phase bonding vs. grounding)
    i. It was suggested to differentiate between bonding across flanges/insulators and cross bonding.
g. Section 6.27 high-voltage circuit breakers – the following text was added: “In case of disagreement, this document takes precedence over the above standards.”
h. Section 7.2.10 dielectric tests on auxiliary and control circuits – the following text was added to amend the description of the power-frequency withstand voltage test on auxiliary/control circuits: “OR the test shall be performed according to IEEE Std C37.21 with test voltage of 1500V for 1 minute or 1800V for 1 second.”
i. Section A.4 tests to verify proper functioning of position-indication device – the following text was added: “IEC 62271-102: 2018 subclause 7.105 applies.”

6. Next meeting: IEEE PES JTCM, January 12-16, 2020, Jacksonville, FL
7. Meeting adjourned @ 8:30am

Existing members:

- Becker, George // POWER Engineers
- Byron, Eldridge // Schneider Electric
- Chiodo, Vincent // HICO America
- Kim, SangTae // HICO America
- Kim, Victor // HICO America
- Mitchell, Dave // Mitch & Associates
- Sharma, Devki // Consultant
- Stage, James // Dominion Technical Solutions, Inc.
- Yoon, DongSun // HICO America
- Zhu, Xi // GE Energy Management

Non-member attendees:

- Bryant, Craig // Duke Energy
- Dwyer, Bernie // PECO
- Fennell, Bruce // Nashville Electric Service
- Hetzer, Matthew // PEPCO
- Joohyun, Lee // Hyosung
- Kohler, Thomas // Ameren
- Lopez, Leo // WIKA
- Natale, Anthony // HICO
- Reyes, Roman // Bechtel
- Schuetz, Carl // ATC
- Slattery, Chris // First Energy

- Wen, Jerry // BC Hydro
- Woodyard, Terrance // Siemens
- Young, Marcus // MEPPI