

*Minutes for HVDC Switches  
October 12, 2021  
Fall 2021 Virtual Meeting*

- The working group met for one online session on October 12<sup>th</sup>.
- 13 participants were in attendance. See the attached attendance roster.
- Attendees introduced themselves and stated their affiliations.
- WG Chair Bill Hurst reviewed the Patent and SA Copyright slides with working group.
  - No participants stated any patent conflicts with the WG.
- WG Chair Bill Hurst reviewed list of reference documents with WG and asked for clarification on copyright laws in regards to sharing those reference materials during the meeting.
  - Ashley Moran, IEEE SA, in attendance to help with copyright questions.
  - Recommended to receive formal written approval from Cigre to share their reference materials.
  - WG needing IEC 60633, 60038, 60071-1, and 60071-5 documents for reference. Requested help from Ashley Moran with obtaining those documents.
- WG Chair Bill Hurst reviewed minutes from April 2021 meeting. No objections or corrections to the minutes were made known.
  - Carl Reigart gave the following response to a comment made in the Spring 2021 meeting minutes: that we have EHV ratings established but that we would want to compare them to the voltages in IEC 62271-5.
- IEC Update:
  - WG Chair Bill Hurst stated that drafts of IEC documents have since circulated for comments and there are now updated drafts of the 5 documents.
  - Indoor and Outdoor switchgear are not separated in IEC documents.
  - IEC looking at condensing the number of BIL ratings within each voltage rating.
- WG Chair Bill Hurst stated that he has discussed with HVCB Chair regarding a Common Clauses document for DC Switchgear and it is agreed that this should be done but too early in the process to start at this time.
- WG Chair commented on the reference documents list and quickly overviewed the key information in each.
  - 62271-314: Showed Table 2 with the DC voltage ratings and the different BIL ratings within each voltage rating.
- WG Chair discussed creating a survey to get input on the voltage ratings and/or become involved with the circuit breaker group's survey.
  - Proposed that we reach out to utilities in the western US who are working on HVDC projects currently and ask if they would like to be involved in our work.
- WG Chair reviewed the schematic and HVDC equipment list with the WG and the equipment categorization (i.e. Switch standard or Circuit Breaker standard).
  - Suggested that WG to gain an understanding of the requirement of each type of HVDC equipment, and functionality and duty on the equipment.
  - Suggested to potentially reach out to engineers at utilities currently working on HVDC projects for training and/or involvement in our standards work.
- Action Items for Spring 2022 meeting discussed.
- Motion to adjourn the meeting made by James Houston and seconded by Carl Reigart.

Action Items for the Spring 2022 Meeting:

- WG Chair to circulate the list of IEC documents to working group members once obtained.
- WG Chair to talk to HVDC Circuit Breaker group about their survey and HVDC Switch WG getting involved for better understanding of the voltage ratings.
- WG Chair to schedule a late January 2022 meeting for WG to begin working on a draft document.

Laura Reid  
WG Vice Chair

WG PC37.30.7 F21 Attendance

| Last Name | First Name        | Company                     | Role       | 10/12/2021 |
|-----------|-------------------|-----------------------------|------------|------------|
| Blake     | Jacob             | Hubbell Power Systems       | Member     | x          |
| Boles     | Brett             | Southern Company            | Member     |            |
| Bisewski  | Bruno             | RBJ Engineering, Corp.      | Member     |            |
| Chen      | Steven            | Eaton                       | Member     |            |
| Cook      | Tim               | Pascor Atlantic             | Guest      |            |
| Ekpoudom  | Assian            | Southern States LLC         | Guest      |            |
| Guzman    | Francisco         | Southern California Edison  | Guest      |            |
| Harley    | John              | FirstPower Group LLC        | Guest      |            |
| Hoss      | Danny             | Southern States LLC         | Member     | x          |
| Houston   | Jim               | Southern Company            | Member     | x          |
| Hu        | Jingxuan (Joanne) | RBJ Engineering Corp.       | Guest      |            |
| Hurst     | Bill              | GE Renewables               | Chair      | x          |
| Jasinski  | Joe               | ITC Holdings Corp           | Guest      | x          |
| Johnson   | David             | HVCB                        | Guest      |            |
| Kaminski  | John              | Siemens Industry            | Member     | x          |
| Kinner    | Robert            | FirstPower Group LLC        | Guest      |            |
| Kowalik   | Pete              | Cleveland/Price Inc.        | Guest      | x          |
| Mapp      | Peter             | GE Renewables               | Guest      | x          |
| Moore     | Jeremy            | Pascor Atlantic             | Guest      |            |
| Morton    | Christopher       | Powertech Labs Inc.         | Guest      |            |
| Reid      | Laura             | Hubbell Power Systems       | Vice Chair | x          |
| Reigart   | Carl              | CDR Technical Services, LLC | Member     | x          |
| Ross      | Rob               | Cleveland/Price             | Guest      | x          |
| Stella    | Eros              | GE Renewables               | Guest      |            |
| Voyles    | Adam              | Ameren                      | Guest      | x          |
| Yu        | Li                | Eaton                       | Guest      |            |
| Zia       | Danish            | Underwriters Laboratory LLC | Member     | x          |