

*Minutes for HVDC Switches
April 20, 2021
Spring 2021 Virtual Meeting*

- The working group met for one online session on April 20th.
- 21 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 reviewed Minutes from Fall 2021 meeting. No objections or corrections to the minutes were made known.
- IEC has created a one overall/common standard for VDC switchgear and then four, more specific standards:
 - Circuit Breakers
 - Disconnect and ground switches (conventional)
 - Current Transfer switches
 - By-pass & Paralleling switches
- WG Chair showed WG the diagram created by Joanne Hu of HVDC Circuit Breakers and HVDC Switches.
 - WG Chair Bill Hurst gave explanation of diagram and table.
 - Bruno Bisewski & Steven Chen gave WG an overview of the different types of switches and their duties.
 - Diagram is a combination of all schemes possible in a DC system for example/categorization.
- Discussion on formatting and content in the C37.30.7 document.
 - WG Chair asked if it makes sense to share a diagram with the HVDC CB document to help explain where the different devices are covered (IEEE Circuit Breaker or Switch standard) since there will not be a common IEEE HVDC standard like in IEC.
 - Switches covered in IEC 62271-314 (Disconnectors & Earthing) and IEC 62271-316 (By-pass & Paralleling) would make sense to be cover in C37.30.7.
 - WG Chair proposed to start with identifying each of the types of switches to be covered.
 - WG discussed the similarities and differences between AC and DC switchgear.
 - WG needs to review the technical documents listed in the Fall 2020 meeting notes before proceeding with C37.30.7 development.
 - Steven Chen suggested the IEC 62271-5 Common Specifications document to be the best reference for establishing voltages, etc.
- WG Chair proposed to have a virtual meeting (July time frame) to allow WG a chance to review supporting IEC and Cigre documents.
 - Anticipate having supporting documents gathered and distributed to WG members by end of May 2021.
 - Steven Chen to get WG a copy of the new IEC documents being developed as a reference.
- WG Chair noted that second session of Fall meeting was not needed.
- Motion to adjourn the meeting made by Carl Reigart.

Action Items for the Fall 2021 Meeting:

- Steven Chen to get WG a copy of the new IEC documents being developed as a reference.
- WG Chair to talk with IEEE liaison to get a copy of additional IEC and Cigre documents to use for the development of C37.30.7.
- WG Chair to circulate the list of reference documents to working group members.
- WG Chair to schedule a virtual mid-summer meeting.

Laura Reid
WG Vice Chair

WG PC37.30.7 S21 Attendance

Role	First Name	Last Name	Company	4/20/2021
Member	Jacob	Blake	Hubbell Power Systems	X
Member	Brett	Boles	Southern Company	X
Member	Bruno	Bisewski	RBJ Engineering, Corp.	X
Member	Steven	Chen	Eaton	X
Guest	Tim	Cook	Pascor Atlantic	X
Guest	Chris	Ekpoudom	Southern States	X
Guest	Francisco	Guzman	Southern California Edison	X
Guest	Jack	Harley	FirstPower Group	X
Member	Danny	Hoss	Southern States	X
Member	James	Houston	Southern Company	X
Guest	Joanne	Hu	RBJ Engineering Corp.	
Chair	Bill	Hurst	GE Renewables	X
Guest	Dave	Johnson		
Member	John	Kaminski	Siemens Industry	X
Guest	Robert (Bob)	Kinner	FirstPower Group	X
Guest	Pete	Kowalik	Cleveland Price	X
Guest	Jeremy	Moore	Pascor Atlantic	X
Guest	Chris	Morton	Powertech Labs	X
Vice Chair	Laura	Reid	Hubbell Power Systems	X
Member	Carl	Reigart	Hubbell Power Systems	X
Guest	Rob	Ross	Cleveland Price	X
Guest	Eros	Stella	GE Renewables	
Guest	Adam	Voyles	Ameren	X
Guest	Li	Yu	Eaton	
Member	Danish	Zia	Underwriters Laboratory	X