

# Paris Session 2022



## Update on Standardisation Activities (of HVDC Switchgear)

SC A3  
PS1 / Q.2  
Nadew Belda NL



Group Discussion Meeting

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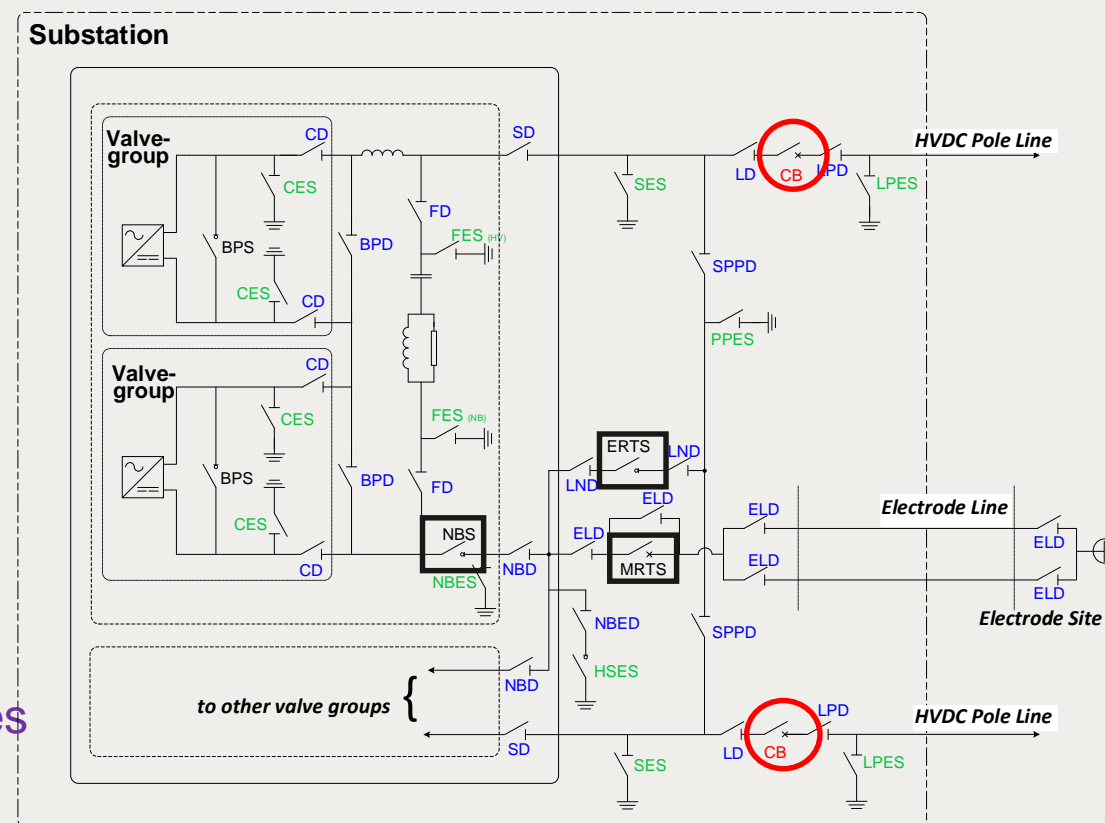
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- **Q2. HVDC switching equipment is on the way to become ‘standardized’ technology, while discussions are continuing based on the experiences in the field or laboratories as presented in 10545 and 10773.**
  - **Can experts provide relevant issues or proposals for the standardization of HVDC switchgear?**

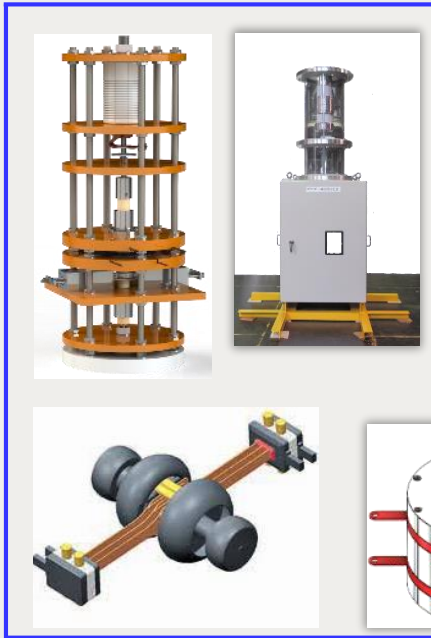
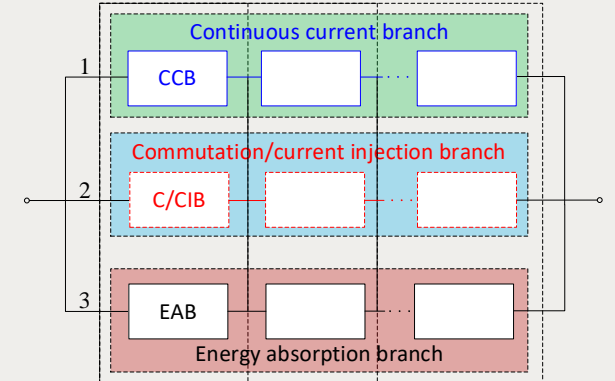
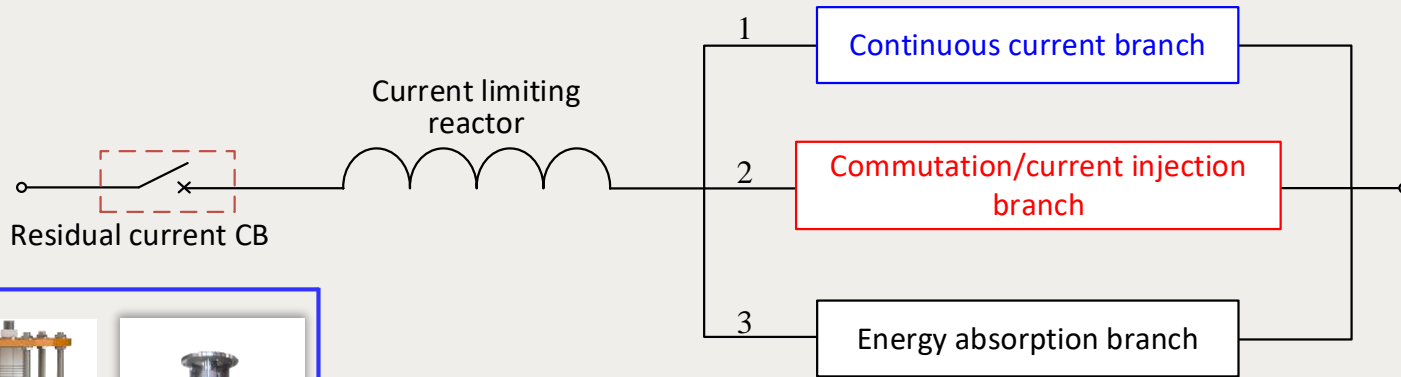
# Ongoing Standardization activities → HVDC Switchgear

- IEC 62271 – 5: Common specifications for DC switchgear (CD3)
- **IEC TS 62271 – 313: HVDC Circuit Breaker (CD2)**
- **IEC TS 62271 – 314: Disconnect Switches and Earthing Switches (CD2)**
- **IEC TS 62271 – 315: Direct current (DC) transfer switches (CD2)**
- **IEC TS 62271 – 316: Direct current by-pass switches and paralleling switches (CD2)**

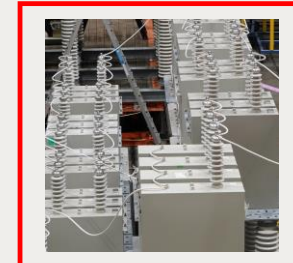
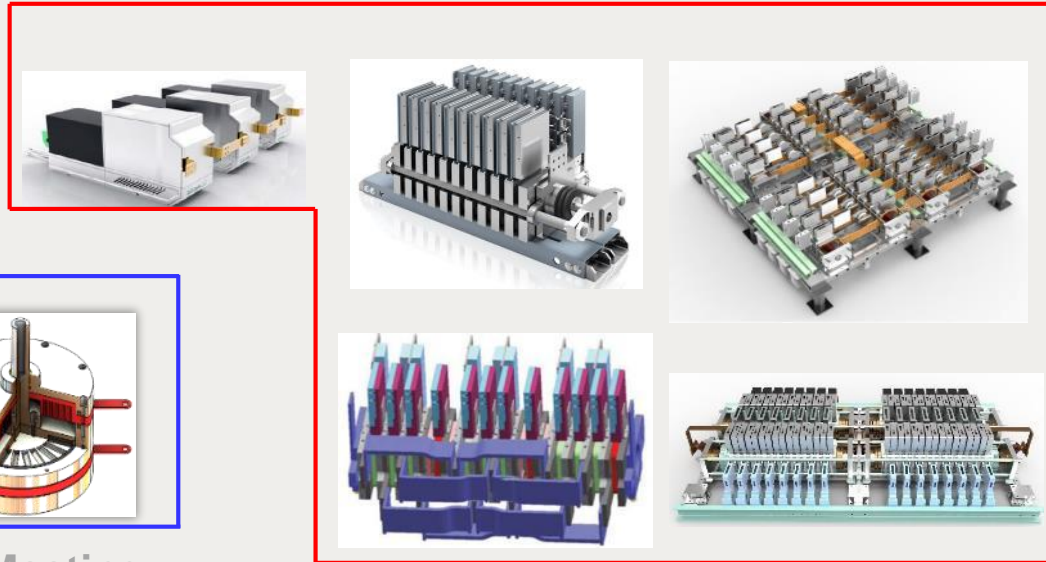


Group Discussion Meeting

# # of Standard components → non-standard application



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## Summary

- Five IEC working groups are focusing on developing technical specification documents for the HVDC switchgear
- The scope of HVDC switchgear standards shall include all the necessary components needed for achieving its function
- The unique stresses of these components in HVDC switchgear needs to be identified → requirements specified accordingly
- The unique stresses and application conditions internal sub-components shall be addressed within the HVDC switchgear technical specifications rather than referring to the AC standards
- In as much as possible testing shall also be performed on complete equipment rather than on just only a few parts
  - ✓ Apply complete stress as in service condition in one go