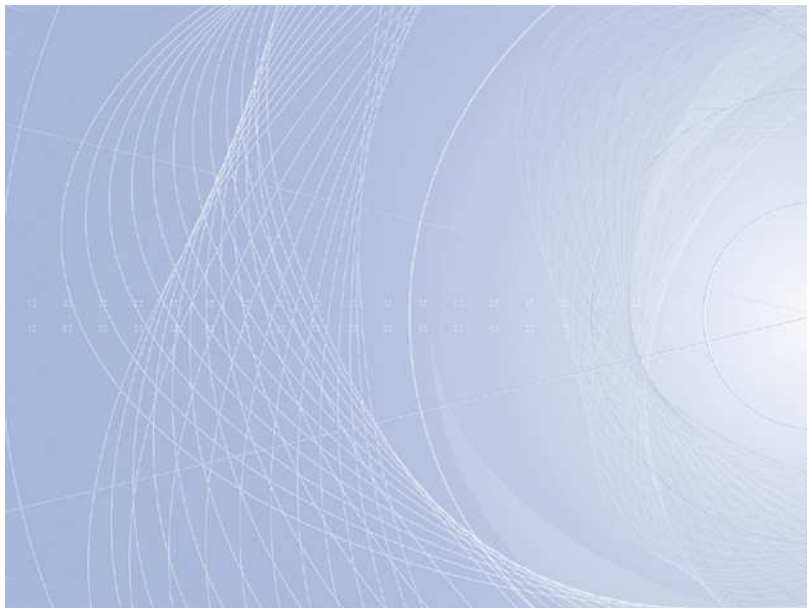




INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

DC switchgear assemblies



SC 17 C – AHG37

Arnhem 2018-09-20

Hermann Koch / Uwe Riechert

Ad-hoc Group 37

SC 17C decided in Frankfurt (April 2017) to set up an Ad-hoc Group, (later codified as AHG 37) with the following scope:

- to further discuss the results of TC 17/ AHG 4 for DC Switchgear Assemblies (DC-GIS) and DC Transmission Lines (DC-GIL).
- to evaluate the need of new standardization activities
- to present the report at next SC 17C plenary meeting at Busan Korea in October 2018 for final decision.



DC switchgear assemblies

Membership

The AHG 37 was set up with the 11 members representing seven countries

Convenor: Hermann Koch Germany

Members:

- | | |
|----------------------|---------|
| ■ Maria Hering | Germany |
| ■ Uwe Riechert | Swiss |
| ■ Mitsuru Toyoda | Japan |
| ■ Laetitia Zavattoni | France |
| ■ Jha Abhishek | Sweden |
| ■ Shenli Jia | China |
| ■ Guihua Dong | China |
| ■ Jinbo Zhang | China |
| ■ Maximilian Tuczek | Germany |
| ■ Steven Chen | USA |



DC switchgear assemblies

TF 1: DC GIS

IEC 62271-203



DC switchgear assemblies

TF 2: DC GIL

IEC 62271-204



DC switchgear assemblies

TF 2a: DC Common Specification

IEC 62271-1

Recommendations

The result of the investigation of the AC GIS and GIL standards brought the following:

- It is recommended to establish a new DC GIS standard
- It is recommended to establish a new DC GIL standard
- It is recommended to establish a new DC Common Specification standard (This document shall cover all requirements which are common to DC GIS and DC GIL.)

Structure of DC switchgear assembly standards

The DC switchgear assembly and transmission line standards shall be grouped under one series number with the following structure:

Proposal 1:

- IEC 62271-2XX-1 DC Common Specification for Assemblies
- IEC 62271-2XX-2 DC GIS
- IEC 62271-2XX-3 DC GIL



DC switchgear assemblies

Time Schedule

The timing for new DC switchgear assembly standards shall be geared to applications.

- DC GIS: One existing application at Kii Channel (2000), new projects in Japan (2018/2019) and one project in Germany (2023).
- DC GIL: no project known at this time

Liaisons

Set up liaison with TC 115.



DC switchgear assemblies

Date for NWIP of DC Switchgear Assemblies

Proposal:

- Start in 2019: IEC 62271-2XX-1 DC Common Specification for Switchgear Assemblies standard
- Start in 2019: IEC 62271-2XX-2 DC GIS standard
- Start later: IEC 62271-2XX-3 DC GIL standard

This proposal will be coordinated with TC 17 and SC 17 A before started.