

Minutes of the Meetings held on
October 16th to 18th, 2018 in Kansas City, USA

Joint IEC/IEEE Maintenance Team for IEC/IEEE 62271-37-013

The Working Group (WG) met on October 16th to 18th, 2018 in Kansas City, USA with 14 members and 10 guests.

The meeting started with the introduction of all participants.

The following people attended the meetings:

| Role | Last name | First name | Attended October 16 th , 2018 | Attended October 17 th , 2018 | Attended October 18 th , 2018 |
|----------|-------------|------------|---|---|---|
| Guest | Ache | Janet | √ | √ | |
| Guest | Bhatt | Gautami | √ | | |
| Guest | Bufi | Arben | √ | | |
| Guest | Cary | Steve | √ | | |
| Member | Chen | Steven | √ | | |
| Guest | Esco | Tanner | √ | | |
| Member | Flores | Sergio | √ | √ | √ |
| Member | Frigiere | Denis | √ | √ | √ |
| Member | Livshitz | Albert | √ | √ | |
| Member | Meiners | Steven | √ | √ | √ |
| Guest | Nayar | Rag | √ | √ | |
| Guest | Orosz | Mike | √ | | |
| Guest | Owens | Mary | √ | | |
| Chairman | Palazzo | Mirko | √ | √ | √ |
| Member | Ricciuti | Anthony | √ | √ | |
| Guest | Sigmon | Dean | √ | | |
| Member | te Paske | Henk | √ | √ | √ |
| Member | Trichon | Francois | √ | √ | |
| Guest | Uzelac | Nenad | | √ | |
| Member | van de Ligt | Jim | √ | √ | √ |
| Member | Webb | John | √ | | |
| Member | Westerdale | Matt | √ | √ | √ |
| Member | Willieme | Jean-Marc | √ | √ | √ |
| Member | Zehnder | Lukas | √ | √ | √ |

Main points:

The agenda proposed for the three-day meeting was approved by the WG members.

The minutes of the previous meeting were approved.

The comments received from the IEEE ballot were reviewed. Observations are detailed in Annex A, columns X and Y.

The chairman of the WG will approach individually the ballotters whose comments have been rejected to explain why.

It was decided to remove the dates from all the documents listed in the Bibliography.

It was decided to cover requirements for applications at frequencies different from 50 Hz/60 Hz and develop related test procedures and requirements. A task force has been established to work on this topic. It was decided to start addressing low-frequency applications to specifically cover requirements for pumped-storage applications.

The foreword of the document has been modified to address the main changes from Edition 1.

The WG agreed that the proposal to start a WG in CIGRE on generator circuit-breakers' application can provide valuable insights if the scope is only limited to switching overvoltages generated by vacuum generator circuit-breakers and solutions to mitigate them. It is recommended that CIGRE reviews the document IEEE C57.142 to evaluate whether the content sufficiently addresses the above mentioned topic before starting activities in CIGRE with a new WG.

David Caverly presented the status of the works being done within IEEE C57.142. A task force has been created within IEEE C57.142 and invitations to join it have been extended to our WG. This task force will be meeting during the IEEE Switchgear Committee meetings.

Next Steps and Agreed Actions:

| Action number | Action description | Responsible | Status | Deadline |
|---------------|---|--|-------------|------------|
| 1 | Develop an Annex in which a step-by-step procedure for the reproduction with computer simulations and in test laboratories of the prospective TRV for load current and out-of-phase current switching modified by the capacitors of generator circuit-breakers is described. Develop a set of formulas to calculate the actual TRV parameters depending on capacitors at each side of the GCB for each row of Table 6. | Henk te Paske, Mirko Palazzo | On going | 31.12.2018 |
| 47 | Check, whether we introduce a technical change when referring to IEC 62271-102:2018 instead of IEC 62271-102:2013 or IEC 62271-102:2001. Also, check the applicability of tests procedures for e.g. earthing switches and starting switches when part of the GCB system in the pole enclosure. | Lukas Zehnder | On going | 31.12.2018 |
| 48 | Check throughout the document the correctness of references to IEC 62271-1 (lines 651, 1508, 1515, 2280, 2703, 2773, 4463, 4884, 4887 of the document 17A_1183e_CD | Mirko Palazzo | Not started | 31.12.2018 |
| 49 | Develop a proposal considering IEC comments 67, 68 and 73 to document 17A_1183e_CD | Lukas Zehnder | Not started | 31.12.2018 |
| 50 | Address application aspects and testing requirements for braking switch and phase reversal disconnecter | Denis Frigiére | Not started | 31.12.2018 |
| 51 | Address application aspects and testing requirements for low and high frequencies in wind farm and pumped-storage applications | Mirko Palazzo (Lukas Z, Jean-Marc W., Jim, Matt, Henk) | Not started | 31.12.2018 |
| 52 | Check for which standards in normative references section the date of issue can be removed | John Webb | Not started | 31.12.2018 |
| 53 | Prepare a proposal to address the subsequent minor loop for type tests with delayed current zeros | Henk te Paske (Lukas, Mirko) | Not started | 31.12.2018 |
| 54 | Prepare a proposal for Figure 1 specifically addressing the details during making operations | Sergio F. | Not started | 31.12.2018 |
| 55 | Modify Figure 2 so that the arrow showing the arcing time starts from the contact separation in the first pole, not from where all poles have separated | Jim van de Ligt | Done | |
| 56 | Prepare a proposal for including pressure in the nameplate (refer to comment #49 from IEC ballot - document 17A_1183e_CD) | Jim van de Ligt | Not started | 31.12.2018 |
| 57 | Make a proposal address comments #90, 91, 92, 93, and 94 received from IEC ballot - refer to document 17A_1183e_CD | Jim van de Ligt | Not started | 31.12.2018 |
| 58 | Replace in all relevant figures, where applicable, $t_{arc\ max}$ with $t_{arc\ sym\ max}$ and $t_{arc\ min}$ with $t_{arc\ sym\ min}$ | Jim van de Ligt | Not started | 31.12.2018 |
| 59 | Remove dates from all documents listed in Bibliography | Mirko | Not started | 31.12.2018 |
| 60 | Check if dates are required for the documents listed in the normative references | John Webb | Not started | 31.12.2018 |
| 61 | Send an e-mail to David Caverly to request membership of the task force working on IEEE C57.142 for Mirko Palazzo, Jim van de Ligt and Matt Westerdale | Mirko | Not started | 07.11.2018 |

Future Meetings and Schedule:

The next meeting is planned to take place in Villeurbanne (FR) on February 5th and 6th, 2019. Details and location information will follow.