

# Visible Break Discussion Group

October 11, 2017 – Portland, ME, USA



Chair: François Souldard

Vice-Chair: -

## Meeting Minutes

1. Meeting called to order @ 8:04 AM..... François Souldard
2. Background from Last Mtg. .... François Souldard
  - a. Definition of Visible Break  

*Visible Break: An isolating gap between conductors that can be visibly verified.*
  - b. Intent of Visible Break (refer to report)
  - c. Reference Testing that Exists (refer to report)
3. Comments review from PES Subcommittee
  - a. ADSCOM were asked to subcommittee for comments  
Most of the comments were editorial and are accepted
  - b. Low-Voltage Switchgear Devices (David Dunne) .....
  - c. High-Voltage Fuses (John Leach) .....
  - d. High-Voltage Circuit Breaker (Mike Skidmore) .....
  - e. Reclosers and Other Distribution Equipment (Nenad Uselac) .....
  - f. Switchgear Assemblies (SA) .....
4. Proposed changes in the report
  - a. Definition of a visible break ..... All
    - i. Withdrawable element does not fall within this definition.
    - ii. It is agreed to keep the definition as it is. The change proposed is decline for the moment. We need feedback from other subcommittee to conclude.
    - iii. John Thomas Hall - Not sure that visible break is seen. Must be visible. Could be a semaphore. C37.100.1 - mentioned clear and reliable indication.
    - iv. Chris Ambrose - A definition does not "exist" until it is put into a standard.
    - v. François Souldard - The definition shall be made as short as possible, with modifications as needed by the other subcommittees.
  - b. Intents
    - i. The intent is to clarify how this definition is applicable to the various products.
    - ii. Under intent, a withdrawable element, which is physically separate from the circuit, meets the intent of this definition.
  - c. Requirements ..... All
  - d. Other comments
    - i. Frank DeCessaro - brought up issue of locking the visible break. Travis Johnson - users would specify lockout requirements.
    - ii. FS - From the Minutes Fall 2016 –
      - We are a discussion group to report to RODE who will report to ADSCOM.
      - Definition of Visible Break shall be common to subcommittee
      - Reviewed #4 - Meeting Highlights
      - We have to distributed to subcommittees for comments
    - iii. It will be ask to ADSCOM to re-address the definition to subcommittees

- iv. What shall be done to verify that the gap is reliable is the responsibility of the subcommittees
  - v. Nenad Uzelac - This document was accepted at RODE in the Spring Meeting. Present to ADSCOM and let the Subcommittees address as needed.
  - vi. Discussion of phase to phase clearance as a visible gap. Was not thought to be an issue.
    - 1. Gap in the current path / circuit path.
    - 2. A visible gap in the main circuit that can be visually verified.
  - vii. Discussion of Safety.
    - 1. Visible break is a tool, which can be part of a safety plan.
    - 2. HQ defines what a safe visible break, work methods, etc.
    - 3. When this is integrated into the device, this should meet the purpose.
    - 4. Paul Found accepts the definition as-is. Can be kept general at a high level.
    - 5. The simplistic definition seems general enough for other subcommittees.
    - 6. The intent is part of the document that will go to ADSCOM, which each subcommittee can use to meet their needs
  - viii. Discussion on Intents (part of technical report to ADSCOM)
    - 1. Accept - Steady state and/or transient voltage.
    - 2. Leave as circuit (instead of line)
    - 3. Visible gap - do we need to see both contacts (i.e. - draw-out). Application dependent. Consider eliminating or revisions section to allow for draw-out applications. Remove bullet completely.
5. Recommended further action ..... François Soulard
- a. Report to RODE and ADSCOM for the partial feedback from subcommittees..
    - i. Common definition as presented is recommended
    - ii. Address the definition to subcommittees to comment their products reality
    - iii. Address the tests list to subcommittees for comments
  - b. The discussion group recommend resubmit to subcommittee chair the report for comment not later than December 2017.
  - c. Nenad will present to ADSCOM to distribute to Subcommittee chairs.
6. Visible break:
- a. Updated the document based on the received comments,
  - b. Chair will send updated document to subcommittee chairs to provide feedback before end of the year.
 

i. High Voltage Fuses (HVF)	John Leach
ii. High Voltage Switches (HVS)	James Houston
iii. High Voltage Circuit Breakers (HVCB)	Mike Skidmore
iv. Low Voltage Switchgear Devices (LVSD)	Dave Dunne
v. Reclosers and Other Distribution Equipment (RODE)	Nenad Uzelac
vi. Switchgear Assemblies (SA)	Mike Lafond
  - c. Will consolidate the document and have the WebEx meeting with subcommittee chairs before spring 2018 meeting to finalize the document.
7. Future Meetings ..... François Soulard  
 Spring 2018 (April 22 - 27), Disney's Contemporary Resort, Lake Buena Vista, FL

## Attendance

Count	Role	First Name	Last Name	Email	Company	Country	2017-10-09
1	Chair	Francois	Soulard	francois.soulard@ieee.org	Hydro-Quebec	Canada	X
2	Guest	Peter	Agliata	peter@agliata.com	Hubbell Power Systems	USA	X
3	Guest	Edwin	Almeida	edwin.almeida.1992@ieee.org	Southern California Edison	USA	X
4	Guest	Chris	Ambrose	chris_ambrose@ieee.org	Federal Pacific	USA	X
5	Guest	David	Beseda	david.beseda@sandc.com	S&C Electric Co.	USA	X
6	Guest	David	Beseda	david.beseda@sandc.com	S&C Electric Co.	USA	X
7	Guest	Kennedy	Darko	kdarko@gwelec.com	G&W Electric Co	USA	X
8	Guest	Frank	DeCesaro	fdecesaro@ieee.org	Eaton's Power Systems Division	USA	X
9	Member	Anil	Dhawan	anil.dhawan@comed.com	ComEd	USA	X
10	Guest	David	Dunne	david.dunne@schneider-electric.com	Schneider Electric	USA	X
11	Guest	William	Ernst	william.ernst@tnb.com	Thomas & Betts	USA	X
12	Member	Paul	Found	paul.found@bchydro.com	BC Hydro	Canada	X
13	Guest	Jeffrey	Gieger	jgieger@ieee.org	Thomas & Betts	USA	X
14	Guest	Peter	Glaesman	pwglaesman@ieee.org	PCORE Electric Company, Inc.	USA	X
15	Guest	Jeffrey	Golarz	golarz@aol.com	IntelliSAW	USA	X
16	Guest	John	Harley	jack.harley@firstpowergroupplc.com	FirstPower Group LLC	USA	X
17	Guest	Harold	Hirz	harold.hirz@tnb.com	Thomas and Betts	USA	X
18	Guest	Harold	Hirz	harold.hirz@tnb.com	Thomas and Betts	USA	X
19	Guest	Matthew	Hussey	matthewhussey@eaton.com	Eaton	USA	X
20	Guest	Rahul	Jain	rahul.jain@sandc.com	S&C Electric Company	USA	X
21	Guest	Travis	Johnson	travis.n.johnson@xcelenergy.com	Xcel Energy	USA	X
22	Guest	Byung-Kyue	Jun	junbk@hyosung.com	Hyosung Corporation (HICO)	South Korea	X
23	Guest	Brendan	Kirkpatrick	brendan.kirkpatrick@sce.com	Southern California Edison	USA	X
24	Guest	Ryan	Kowdley	rskg@pge.com	Pacific Gas & Electric	USA	X
25	Guest	Michael	Lafond	mike.lafond@ge.com	General Electric	USA	X
26	Guest	Chris	Lettow	chris.lettow@sandc.com	S&C Electric Company	USA	X
27	Guest	Chris	Lettow	chris.lettow@sandc.com	S&C Electric Company	USA	X
28	Guest	Wangpei	Li	wangpeili@eaton.com	Eaton	USA	X
29	Guest	Donald	Martin	donmartin@ieee.org	G&W Electric Co.	USA	X
30	Guest	Steven	Meiners	steven.meiners@ge.com	GE	USA	X
31	Guest	Steven	Meiners	steven.meiners@ge.com	GE	USA	X
32	Guest	Christopher	Morton	chris.morton@powertechlabs.com	Powertech Labs Inc.	Canada	X
33	Guest	Larry	Putman	lputman@argontech.net	Powell Electrical Systems Inc.	USA	X
34	Guest	Ian	Rokser	ian.rokser.us@ieee.org	Eaton Corp	USA	X

Total Attending: 34