

# Visible Break Discussion Group Meeting Minutes October 17, 2018 – Kansas City, MO, USA



**Chair:** François Souldard

**Vice-Chair:** -

**Secretary:** Paul Found, acting

## Meeting Minutes

### 1. Call to Order

Francois initiated the meeting at 8:00am.

### 2. Introduction of Members and Guests

### 3. Call for patents

Call for Patents were requested with no claims made.

### 4. Attendance and Quorum Check

16 members on 23 total members, (minimum for Quorum; 12 members)

24 guests were present

40 attendees' total

### 5. Approval of the Agenda

Motion to accept the agenda

- a. Moved by - Dave Dunne
- b. 2<sup>nd</sup> by - Kennedy Darko
- c. Discussion - No discussion or comments given
- d. Vote – All approved
- e. Agenda approved.

### 6. Approval of Minutes of Spring 2018 Meeting

No comment or discussion, all approved the last meeting minutes

### 7. Comments review from ADSCOM Spring 2018 meeting on definition proposal ..... François Souldard

*Visible break. A draft definition for visible breaker was established. TF requests approval to move forward with use of and implementation of definition.*

*Definition slide was presented.*

***Visible break – a gap between conductors that can be visually verified, and meets the dielectric withstand requirements in the relevant product standard.***

*Discussion:*

- *Discussion of isolation dielectric versus service dielectric requirements raised.*
- *Francois: Agreed to distribute definition to ADSCOM members requesting additional review and comments to address this issue.*
- *Thus for now, no future actions at this time.*

### 8. Proposed changes in the report

#### a. Definition of a visible break

Francois reviewed the intent of the visible break (include in annex).  
Francois encouraged everyone to review to the report in annex.

**b. Requirements**

Francois presented a summary of the proposed tests for the visible break.

**c. Discussions**

- *Mechanical Endurance* – consider using the term mechanical operations.
- *Disconnect Switch Ratings* list was presented. Harry asked about ratings towards open switch ratings, and is this rating that is necessary.
- Ted Olsen notes that the charter of the discussion group should focus on the requirements of visible break, not on requirements of existing standards.
- Users commented on how they use visible breaks.
- The visible break will need to be rated such that grounding/energized potentials are preserved.
- Harry noted that clarity in the group is that we are set to define the requirements. Doug Edwards and David Dunne provided comments suggesting that these requirements need to be stated in the equipment requirements.
- There was much debate about including performance ratings into the definition.
- Mike Lafond (SA) joined meeting late to say that most products have performance characteristics. He suggested to look at gaps for visible break for where the consensus is for common language of the gaps exist. Mike referred to LV&MVCBs that also have requirements for open position. Mike said SA was comfortable with the definition. Focus should be how performance characteristics in the open position. Each committee chair should look within their jurisdiction of where visible break is applied and identify where there are performance characteristic gaps in the open position.
- Francois summarized that each sub-committee will need to take the definition and the requirements will need to reside within the subcommittee standards.

**9. Further action**

- Task of defining “Visible Break” is complete. Mike Lafond confirms that Switchgear Assemblies supports the definition.
- Francois will report to ADSCOM that the Visible Break Discussion Group will be dissolved and recommend to each subcommittee to adopt the Visible Break definition, work on its integration in their respective product standards and see how it will be applied.
- Ian Rokser proposed a title of any future discussions: “Application for Visible Break Definition to RODE Standards”. This proposal will be presented to RODE and need to be vote by RODE members.

**10. Meeting adjourn ..... All**

Meeting has been proposed to adjourn and was accepted by all.

**11. Future Meetings (if needed)..... François Souldard**

No future meeting is needed on the Visible Break Discussion Group (definition).  
If it’s approved, a new discussion group might be formed to discuss about application of visible break.

| <b>Role</b>   | <b>First Name</b> | <b>Last Name</b> | <b>Company</b>                                | <b>Country</b> | <b>10/17/2018</b> |
|---------------|-------------------|------------------|---|----------------|-------------------|
| <b>Chair</b>  | Francois          | Soulard          | Hydro-Quebec                                  | Canada         | X                 |
| <b>Member</b> | Edwin             | Almeida          | Southern California Edison                    | USA            | X                 |
| <b>Member</b> | Eldridge          | Byron            | Schneider Electric                            | USA            |                   |
| <b>Member</b> | Kennedy           | Darko            | G&W Electric Co                               | USA            | X                 |
| <b>Member</b> | Frank             | DeCesaro         | Eaton's Power Systems Division                | USA            | X                 |
| <b>Member</b> | Anil              | Dhawan           | ComEd   | USA            | X                 |
| <b>Member</b> | David             | Dunne            | Schneider Electric                            | USA            | X                 |
| <b>Member</b> | Doug              | Edwards          | Siemens Industry, Inc.                        | USA            | X                 |
| <b>Member</b> | Paul              | Found            | BC Hydro                                      | Canada         | X                 |
| <b>Member</b> | Jeffrey           | Gieger           | Thomas & Betts                                | USA            | X                 |
| <b>Member</b> | Roger             | Golze            | Retired from Trayer Switchgear                | USA            |                   |
| <b>Member</b> | Francisco         | Guzman           | Southern California Edison                    | USA            |                   |
| <b>Member</b> | John              | Harley           | FirstPower Group LLC                          | USA            |                   |
| <b>Member</b> | Harold            | Hirz             | Thomas and Betts                              | USA            | X                 |
| <b>Member</b> | Rahul             | Jain             | S&C Electric Company                          | USA            | X                 |
| <b>Member</b> | Brendan           | Kirkpatrick      | Southern California Edison                    | USA            |                   |
| <b>Member</b> | Michael           | Lafond           | ABB   | USA            | X                 |
| <b>Member</b> | Albert            | Livshitz         | CE Power Engineered Services                  | USA            | X                 |
| <b>Member</b> | Larry             | Putman           | Powell Electrical Systems Inc.                | USA            | X                 |
| <b>Member</b> | Ian               | Rokser           | Eaton Corp                                    | USA            | X                 |
| <b>Member</b> | Timothy           | Royster          | Dominion Virginia Power                       | USA            | X                 |
| <b>Member</b> | Nenad             | Uzelac           | G&W Electric                                  | USA            |                   |
| <b>Member</b> | William           | Walter           | We-Energies                                   | USA            |                   |
| <b>Guest</b>  | Chris             | Ambrose          | Federal Pacific                               | USA            | X                 |
| <b>Guest</b>  | Clint             | Came             | Schneider Electric                            | USA            | X                 |
| <b>Guest</b>  | Stephen           | Cary             | ABB   | USA            | X                 |
| <b>Guest</b>  | Daniel            | Delfino          | General Electric                              | USA            | X                 |
| <b>Guest</b>  | Peter             | Glaesman         | PCORE Electric Company, Inc.                  | USA            | X                 |
| <b>Guest</b>  | Tom               | Hawkins          | Siemens Industry, Inc.                        | USA            | X                 |
| <b>Guest</b>  | James             | Houston          | Southern Company Transmission                 | USA            | X                 |
| <b>Guest</b>  | Bill              | Hurst            | GE  | USA            | X                 |
| <b>Guest</b>  | Travis            | Johnson          | Xcel Energy                                   | USA            | X                 |
| <b>Guest</b>  | John              | Kaminski         | Siemens                                       | USA            | X                 |
| <b>Guest</b>  | Ryan              | Kowdley          | Pacific Gas & Electric                        | USA            | X                 |
| <b>Guest</b>  | Bradley           | Lewis            | AEP   | USA            | X                 |
| <b>Guest</b>  | Donald            | Martin           | G&W Electric Co.                              | USA            | X                 |
| <b>Guest</b>  | Neil              | McCord           | KEC Precision                                 | USA            | X                 |
| <b>Guest</b>  | Peter             | Meyer            | S&C Electric Company                          | USA            | X                 |
| <b>Guest</b>  | Jacob             | Midkiff          | Dominion Energy                               | USA            | X                 |
| <b>Guest</b>  | Darryl            | Moser            | ABB   | USA            | X                 |
| <b>Guest</b>  | T                 | Olsen            | Retired, formerly with Siemens Industry, Inc. | USA            | X                 |
| <b>Guest</b>  | Mary              | Owens            | Eaton   | USA            | X                 |
| <b>Guest</b>  | Andrew            | Peterson         | ABB   | USA            | X                 |
| <b>Guest</b>  | Al                | Pruitt           | The Durham Company                            | USA            | X                 |
| <b>Guest</b>  | Carl              | Reigart          | CDR Technical Services, LLC                   | USA            | X                 |
| <b>Guest</b>  | Douglas           | Shull            | Powell Industries, Inc.                       | USA            | X                 |
| <b>Guest</b>  | Francois          | Trichon          | Schneider Electric                            | France         | X                 |

