

Minutes of Meeting

Task Force to Study Shunt Reactor Switching Endurance for HVCB

Location: Hilton Bonnet Creek, Orlando, FL
Date: Wednesday April 13, 2022 (8:00-9:45 AM)
Participants: 9 of 24 members present (38%)
13 guests

TF Chair: Sushil Shinde
TF Secretary/Acting Chair: Lucas Collette

Call to order

TF Acting Chair called to order and discussed the history and purpose of the Task Force.

Introduction of members and guests

Roster distributed and attendance recorded (attendance sheet attached to MOM)

Review copyright and patent slides and call for patent identification

No essential patents or copyrights identified

Review of Agenda

Acting Chair reviewed the Agenda.

Review of Minutes from April 21st, 2021

Acting Chair reviewed the MOM from the previous meeting.

Current Status of Task Force

The existing TF Chair has indicated to the HVCB Subcommittee Chair that he can no longer perform the duties, so volunteers were requested for a new TF Chair and Secretary.

- Craig Polchinski has agreed to become Secretary of the Task Force
- Lucas Colette will move into the chair position.

A clarification was requested as to the purpose of the TF. The acting chair repeated the purpose and added the history of the task force.

Discussion on previous work by the TF indicated a survey was completed and ready for distribution to users, CB manufacturers, and shunt reactor manufacturers. It was proposed that the latest electronic copy of the survey and other supporting material is obtained from the previous TF Chair and reviewed by the TF one more time before distribution.

Next steps

- Obtain latest electronic version of the survey and supporting documentation from previous TF Chair.
- Submit to the TF members and guest for review and comment.
- Discuss distribution of the survey during the next meeting during Fall 2022.

Adjournment

TF Acting Chair adjourned the meeting at 8:30 AM.

**IEEE PES Switchgear Committee
HVCB Task Force to Study
Shunt Reactor Switching Endurance**

**Hilton Orlando Bonnet Creek
April 13, 2022**

Agenda

1. Call to Order
2. Introduction of Members and Guests
3. Review of Copyright Policy and Patent slides
 - Call for Patents
 - If anyone is aware of any Patent Claims that might be Essential Patent Claims please make that known to the Working Group at this time.
4. Review of TF Membership
5. Review and Approval of Agenda
6. Review and Approval of Minutes from April 21st, 2021
7. Current Status of Task Force
8. Next Steps
9. Adjournment

Call to Order

Recap of Initial Meeting for Reference (October 11, 2017)

- Concerns identified for electrical switching endurance based on field experience for inductive load (shunt reactor) switching.
- The TF was formed with the intention to develop a PES Technical Report or provide recommendations for breaker or reactor testing.
- It was decided by the TF that a user and manufacturer survey would be useful for attaining failure data, a list of criteria used for specifying reactor switching breakers, and numbers of various ratings of reactor switching devices/shunt reactors sold etc.

Agenda

1. Call to Order
2. Introduction of Members and Guests
3. Review of Copyright Policy and Patent slides
 - Call for Patents
 - If anyone is aware of any Patent Claims that might be Essential Patent Claims please make that known to the Working Group at this time.
4. Review of TF Membership
5. Review and Approval of Agenda
6. Review and Approval of Minutes from April 21st, 2021
7. Current Status of Task Force
8. Next Steps
9. Adjournment

Agenda

1. Call to Order
2. Introduction of Members and Guests
3. Review of Copyright Policy and Patent slides
 - Call for Patents
 - If anyone is aware of any Patent Claims that might be Essential Patent Claims please make that known to the Working Group at this time.
4. Review of TF Membership
5. Review and Approval of Agenda
6. Review and Approval of Minutes from April 21st, 2021
7. Current Status of Task Force
8. Next Steps
9. Adjournment

IEEE SA COPYRIGHT POLICY

By participating in this activity, you agree to comply with the IEEE Code of Ethics, all applicable laws, and all IEEE policies and procedures including, but not limited to, the IEEE SA Copyright Policy.

- Previously Published material (copyright assertion indicated) shall not be presented/submitted to the Working Group nor incorporated into a Working Group draft unless permission is granted.
- Prior to presentation or submission, you shall notify the Working Group Chair of previously Published material and should assist the Chair in obtaining copyright permission acceptable to IEEE SA.
- For material that is not previously Published, IEEE is automatically granted a license to use any material that is presented or submitted.

IEEE SA COPYRIGHT POLICY

- The IEEE SA Copyright Policy is described in the IEEE SA Standards Board Bylaws and IEEE SA Standards Board Operations Manual
 - IEEE SA Copyright Policy, see
 - Clause 7 of the IEEE SA Standards Board Bylaws
<https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7>
 - Clause 6.1 of the IEEE SA Standards Board Operations Manual
<https://standards.ieee.org/about/policies/opman/sect6.html>
- IEEE SA Copyright Permission
 - <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/permissionltrs.zip>
- IEEE SA Copyright FAQs
 - <http://standards.ieee.org/faqs/copyrights.html/>
- IEEE SA Best Practices for IEEE Standards Development
 - http://standards.ieee.org/develop/policies/best_practices_for_ieee_standards_development_051215.pdf
- Distribution of Draft Standards (see 6.1.3 of the SASB Operations Manual)
 - <https://standards.ieee.org/about/policies/opman/sect6.html>

PARTICIPANTS HAVE A DUTY TO INFORM THE IEEE

- Participants shall inform the IEEE (or cause the IEEE to be informed) of the identity of each holder of any potential Essential Patent Claims of which they are personally aware if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
- Participants should inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims

**Early identification of holders of potential
Essential Patent Claims is encouraged**

WAYS TO INFORM IEEE

- **Cause an LOA to be submitted to the IEEE SA (patcom@ieee.org); or**
- **Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or**
- **Speak up now and respond to this Call for Potentially Essential Patents**

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

OTHER GUIDELINES FOR IEEE WORKING GROUP MEETINGS

- All IEEE SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
 - Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
 - Don't discuss specific license rates, terms, or conditions.
 - Relative costs of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.
 - **Technical considerations remain the primary focus.**
 - Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
 - Don't discuss the status or substance of ongoing or threatened litigation.
 - Don't be silent if inappropriate topics are discussed. Formally object to the discussion immediately.

For more details, see *IEEE SA Standards Board Operations Manual*, clause 5.3.10 and *Antitrust and Competition Policy: What You Need to Know* at <http://standards.ieee.org/develop/policies/antitrust.pdf>

PATENT-RELATED INFORMATION

The patent policy and the procedures used to execute that policy are documented in the:

- ***IEEE SA Standards Board Bylaws***
(<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>)
- ***IEEE SA Standards Board Operations Manual***
(<http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>)

Material about the patent policy is available at
<http://standards.ieee.org/about/sasb/patcom/materials.html>

**If you have questions, contact the IEEE SA
Standards Board Patent Committee
Administrator at patcom@ieee.org**

Agenda

1. Call to Order
2. Introduction of Members and Guests
3. Review of Copyright Policy and Patent slides
 - Call for Patents
 - If anyone is aware of any Patent Claims that might be Essential Patent Claims please make that known to the Working Group at this time.
4. Review of TF Membership
5. Review and Approval of Agenda
6. Review and Approval of Minutes from April 21st, 2021
7. Current Status of Task Force
8. Next Steps
9. Adjournment

Current Task Force Membership (24 Members)

Last name	First name	Company name	Role
Alexander	Roy	RWA Engineering	Member
Bosma	Anne	ABB Inc.	Member
Bufi	Arben	Meiden America Switchgear	Member
Caverly	David	Trench Limited	Member
Chovanec	Andrew	GE Grid Solutions	Member
Christian	Michael	ABB Inc.	Member
Collette	Lucas	Duquesne Light	Secretary
Edwards	Ken	First Energy	Member
Frazier	Raymond	Ameren	Member
Heiermeier	Helmut	ABB	Member
Hermosillo	Victor	GE Grid Solutions	Member
Hu	Joanne	RBJ Engineering Corporation	Member
Lemmerman	David	PECO/Exelon	Member
Liu	Hua Ying	Southern California Edison	Member
Roberts	Brian	Southern States LLC	Member
Rogers	Jon	Siemens Energy, Inc	Member
Schuetz	Carl	American Transmission Company (ATC)	Member
Sharma	Devki	Entergy	Member
Shinde	Sushil	ABB Inc.	Chair
Skidmore	Michael	AEP	Member
Weeks	Casey	Siemens Energy	Member
Weisker	Jan	Siemens Energy	Member
York	Richard	MEPPI	Member
Zhang	Will	Hitachi	Member

Agenda

1. Call to Order
2. Introduction of Members and Guests
3. Review of Copyright Policy and Patent slides
 - Call for Patents
 - If anyone is aware of any Patent Claims that might be Essential Patent Claims please make that known to the Working Group at this time.
4. Review of TF Membership
5. Review and Approval of Agenda
6. Review and Approval of Minutes from April 21st, 2021
7. Current Status of Task Force
8. Next Steps
9. Adjournment

Agenda

1. Call to Order
2. Introduction of Members and Guests
3. Review of Copyright Policy and Patent slides
 - Call for Patents
 - If anyone is aware of any Patent Claims that might be Essential Patent Claims please make that known to the Working Group at this time.
4. Review of TF Membership
5. Review and Approval of Agenda
6. Review and Approval of Minutes from April 21st, 2021
7. Current Status of Task Force
8. Next Steps
9. Adjournment

Agenda

1. Call to Order
2. Introduction of Members and Guests
3. Review of Copyright Policy and Patent slides
 - Call for Patents
 - If anyone is aware of any Patent Claims that might be Essential Patent Claims please make that known to the Working Group at this time.
4. Review of TF Membership
5. Review and Approval of Agenda
6. Review and Approval of Minutes from April 21st, 2021
7. Current Status of Task Force
8. Next Steps
9. Adjournment

Current Status of Task Force

- Volunteers needed for Secretary or Chair
- Survey and guidance document created and ready to distribute.
 - Need to track down latest files

Agenda

1. Call to Order
2. Introduction of Members and Guests
3. Review of Copyright Policy and Patent slides
 - Call for Patents
 - If anyone is aware of any Patent Claims that might be Essential Patent Claims please make that known to the Working Group at this time.
4. Review of TF Membership
5. Review and Approval of Agenda
6. Review and Approval of Minutes from April 21st, 2021
7. Current Status of Task Force
8. Next Steps
9. Adjournment

Next Steps

- The following is based on MOM from our last meeting:
 - Release the survey
 - Follow-up with the target end users
 - Data collection & analysis
 - Work on the TF report (Chair to follow up with volunteers from previous meetings)
- Open discussion on the best way to proceed

Agenda

1. Call to Order
2. Introduction of Members and Guests
3. Review of Copyright Policy and Patent slides
 - Call for Patents
 - If anyone is aware of any Patent Claims that might be Essential Patent Claims please make that known to the Working Group at this time.
4. Review of TF Membership
5. Review and Approval of Agenda
6. Review and Approval of Minutes from April 21st, 2021
7. Current Status of Task Force
8. Next Steps
9. Adjournment