

Solid Dielectric Task Force

April 29, 2013 – Galveston, TX



Chair: Francois Soulard

Vise Chair: Chris Ambrose

Secretary: Frank DeCesaro

Meeting Minutes

1. Call to order and introduction:

The meeting was called to order at 10:19 AM by Chair Francois Soulard. The roster was distributed and all attendees introduced.

2. Roster Check:

There were 10 members and 20 guests present for the meeting. An introduction of attendees, with affiliation, was conducted. Sign-up sheets were routed to the group. The list of members and guests is on the AMS system.

3. Previous Meeting Minutes

- Francois Soulard welcomed the members and guests. He provided a general summary of what the group has been working on.
- Frank Muench moved to accept minutes and Chris Ambrose seconded.

4. Project Status and Timeline:

- Technical Brochure to be completed before Fall meeting (see schedule below)

5. Meeting Highlights

- Recommendation to RODE on Wednesday for future actions. Francois Soulard will circulate the document via thumb drive at today's meeting and asks the taskforce to review and make comments back to him before the Wednesday afternoon RODES meeting. He plans on presenting:
 - PowerPoint presentation including recommendations for the SDTF
 - 2nd recommendation is to dissolve the Solid Dielectrics taskforce or extend with a new scope or reform with a new group.
 - Francois Soulard recommends that we proceed with a new scope. He feels the taskforce has gone relatively long.
 - Tim Royster asked if we should consider requesting a PAR and create a working group.
 - Chris Ambrose feels that it is advantageous to have the taskforce present its recommendation to RODES and provide a recommended scope for a working group.
 - Nenad Uzelac stated that we have spent 5 years on this and we should publish it in some form. Finalize as it is now. Then if recommendation for future works we can look at the other items being discussed today.
 - Edgar Dullni Stated that the input from users on experience with Solid Dielectrics is lacking. Extend scope into application and some experience.

- Francois Soulard presented the scope as written in Montreal in October of 2005.
- The group has summarized the discussion on this as:

The Solid Dielectrics Task Force recommends to RODE that it's deliverable be presented as a technical report. This will present information that can be used as a reference for future development of guides or standards.

This taskforce would then modify the existing document into a presentable form. Each chapter leader will send their sections to Francois Soulard who will distribute it by sections in Word format. The combined document will then be sent to the taskforce members with instructions of who should review which section.

The taskforce further recommends that RODE would report out to ADSCOM. If necessary this taskforce can make the presentation.

One recommendation that could come from this group is that a working group could be established to investigate or create a technical guide or standard that would describe the requirements in the testing application and manufacture of solid dielectrics switchgear in its various forms.

- Section Leaders:
 - Section 1 – Francois Soulard
 - Section 2 - Nenad Uzelac, William Walter
 - Section 3 - Larry Putman and Tim Royster
 - Section 4 - Chris Ambrose and Frank Muench
 - Sections 5 and 6 - Gerard Schoonenberg, James Swank, and Tim Taylor
- Francois Soulard will assign people to review specific sections
- Volunteers to review sections:
 - Section 3 – Materials – Andrew Swisher and Jonathon Deverick
 - Section 4 Environmental – Frank Muench, Chris Ambrose, Andrew Swisher
 - Section 5 Solid dielectric materials and components – Gerard Schoonenberg and Edgar Dullni
 - Section 6 Standards – Antone Bonner
 - Section 7 References – Andy Seccombe
 - Section 8 Conclusion and recommendations – Francois Soulard
 - Section 9 Annexes
 - 9.1 Solid dielectric failure mechanism approach
 - 9.2 Reference to CAN/CSA-C411.5-10
 - 9.3 IEEE Std 386 art. 7.12 Accelerated sealing life test
 - 9.4 IEC 62271-201 : AC insulation-enclosed switchgear and controlgear
 - 9.5 Current carrying tests and application of switchgear
 - 9.6 Thermal cycle withstand test from IEEE Std 386
 - 9.7 Tests in several product standards

- 9.8 Proposed Test Listing for Solid Dielectric Switchgear

6. Assignments and Target dates:

- **UPDATE the technical Report**
 - The Chapter leads to update the chapters – **May 30th**
 - Francois to compile the chapters and write the conclusion **June 15th**
 - Francois to create a PDF document (with numbered lines) and send it to the Working Group
- **COMMENT on the Technical Report – July 15th**
 - Francois to assign each team member to review 1 section. This will provide focus and we are likely to get more meaningful comments. Some people already volunteered and guess propose to help. Of course, each member can provide comments to any part of brochure, but this 1 section is the least that is expected.
 - Team members are asked to use the Attached (or similar) format for comments.
- **COMPILE comments:**
 - Francois to compile comments and send the comment list to Chapter leads **July 30th**
 - Chapter leads to review & accept and/or REJECT comment. **August 15**
 - Francois (or someone you delegate) to edit the Technical Report. **August 30th**
- **DISTRIBUTE this technical report to RODE**

7. Next meeting:

- F2013 - September, 2013 San Antonio, TX

8. Meeting adjourned at 12.08 PM

Submitted by:

Francois Soulard
Solid Dielectric Task force chair
May 15, 2013

Membership:

Members	Last Name	First name	Affiliation	Spring 2013
Chair	Soulard	François	Hydro-Quebec	X
Vice-Chair	Ambrose	Chris	Federal Pacific	X
Secretary	DeCesaro	Frank P.	Cooper Power Systems	X

M	Baskin	Jeffy	Federal Pacific	X
M	Befus	Craig	BC Hydro	E
M	Bonner	Antone	Cooper Power Systems	X
M	Chen	Steven	Chenhouse North America	X
M	Geiger	Jeff	T&B	X
M	Heinrich	Christian	Siemens	X
M	Jankowich	Edward	Jankowich Consulting LLC	X
M	Labianco	Michael	G&W Electric	A
M	Muench	Frank	Cooper Power Systems	X
M	Parker	Don	Alabama Power	A
M	Putman	Larry	Powell Industries	X
M	Royster	Tim	Dominion Virginia Power	X
M	Schoonenberg	Gerard	Eaton	E
M	Taylor	Tim	Thomas & Betts	E
M	Uzelac	Nenad	G&W Electric	X
M	Walter	Bill	We Energies	X
M	Yerges	Alan	Cooper-Power	A

X- present,

E-excused,

A-absent

Attendance

Role	First Name	Last Name	Company	State	Country	04/29/2013
Chair	Francois	Soulard	Hydro-Quebec	QC	Canada	X
Vice-Chair	Chris	Ambrose	Federal Pacific (Div. of Electro-Mechanical Corp.)	TN	USA	X
Secretary	Frank	DeCesaro	Cooper Power Systems	WI	USA	X
Member	Jerry	Baskin	Federal Pacific	TN	USA	X
Member	Craig	Befus	Xcel Energy	CO	USA	
Member	Antone	Bonner	Eaton	WI	USA	X
Member	Steven	Chen	Chenhouse North America	PA	USA	X
Member	Jeffrey	Gieger	Thomas & Betts	PA	USA	
Member	Christian	Heinrich	Siemens AG	Other	Germany	
Member	Edward	Jankowich	Jankowich Consulting LLC	FL	USA	X
Member	Michael	LaBianco	G&W Electric Company	IL	USA	
Member	Frank	Muench	Cooper Power Systems	WI	USA	X
Member	Donald	Parker	Alabama Power Company	AL	USA	
Member	Larry	Putman	Powell Electrical Systems Inc.	TX	USA	X
Member	Timothy	Royster	Dominion Virginia Power	VA	USA	X
Member	Gerard	Schoonenberg	Eaton	Other	Netherlands	
Member	Tim	Taylor	Thomas & Betts	NJ	USA	
Member	Nenad	Uzelac	G&W Electric	IL	USA	
Member	Nenad	Uzelac	G&W Electric	IL	USA	X
Member	William	Walter	We-Energies	WI	USA	X
Member	Alan	Yerges	Cooper Power Systems	WI	USA	
Guest	John Paul	Adigwu	Southern California Edison	CA	USA	
Guest	Peter	Agliata	Hubbell Power Systems	AL	USA	
Guest	Enoch	Baidoo	Trayer Engineering Corporation	CA	USA	
Guest	Ganesh	Balasubramanian	Eaton Corporation	NY	USA	X
Guest	Robert	Behl	ABB	FL	USA	
Guest	Christopher	Borck	Cooper Power Systems	WI	USA	X
Guest	Samuel	Chang	Pacific Gas & Electric Co	CA	USA	
Guest	Larry	Davis	Reuel Inc	NC	USA	X
Guest	Jonathan	Deverick	Dominion Power	VA	USA	X
Guest	Edgar	Dullni	ABB	Other	Germany	X
Guest	Lawrence	Farr	Eaton Electrical	NC	USA	
Guest	Mark	Feltis	Schweitzer Engineering Laboratories, Inc	WA	USA	
Guest	Douglas	Fitchett	American Electric Power Co	OH	USA	
Guest	Paul	Found	BC Hydro	BC	Canada	X
Guest	Dan	Gardner	Thomas & Betts	NJ	USA	
Guest	Peter	Glaesman	Reuel, Inc.	NC	USA	X
Guest	William	Glennon	Schweitzer Engineering Labs	WA	USA	
Guest	Jodi	Haasz	IEEE	NJ	USA	
Guest	Reid	Herzog	OG&E	OK	USA	X
Guest	Harold	Hirz	Thomas and Betts	OH	USA	X
Guest	Jingxuan (Joanne)	Hu	RBJ Engineering Corporation	MB	Canada	
Guest	Arthur	Jur	Eaton Corporation	SC	USA	
Guest	Brendan	Kirkpatrick	Southern California Edison	CA	USA	X
Guest	Frank	Lambert	Georgia Tech / NEETRAC	GA	USA	X
Guest	Kenneth	Lee	Thomas & Betts Corporation	AZ	USA	
Guest	Chris	Lettow	S&C Electric Company	IL	USA	X
Guest	Wangpei	Li	Eaton	NY	USA	
Guest	Donald	Martin	G&W Electric Co.	IL	USA	X
Guest	Steven	Meiners	GE	CT	USA	
Guest	Robert	Murphy	Trayer Engineering Corporation	CA	USA	
Guest	Alan	Peterson	Utility Service Corporation	AL	USA	X
Guest	Sachin	Puranik	Hubbell Power Systems	AL	USA	
Guest	Carl	Schuetz	American Transmission Company (ATC)	WI	USA	
Guest	Andy	Seccombe	Schneider Electric	Other	Australia	X
Guest	Robert	Smith	Eaton Corporation	NY	USA	X
Guest	James	Swank	Cooper Power Systems	WI	USA	X
Guest	Andrew	Swisher	Southern California Edison	CA	USA	X