



IEEE PES STATIONARY BATTERY COMMITTEE

PES Stationary Battery Committee Meeting Minutes

Monday January 12, 2015 New Orleans, LA

General Meeting

1. Meeting Opening and Introductions

The meeting was called to order by committee Chair Rick Tressler at 8:00 AM (Local Time) on Monday, January 12, 2015.

As of January 12, 2015, there were currently 60 members of the SBC. There were 57 people attending the general session, 39 of which were voting members (membership) of the Committee.

Welcome to all attendees, members and guest.

David Franklin from Enercon organized the SBC Winter 2015 New Orleans meeting. David welcomed the committee members and guest and provided housekeeping and local area information.

Rick Tressler thanked Lesley Varga (Past Chair) for her service on the SBC Executive Committee. Rick Tressler introduced the new incoming SBC Executive Committee which is currently: Rick Tressler (Chair), Curtis Ashton (Vice Chair) and Kurt Uhlir (Secretary).

The attendee list was sent around. Introductions by all attending were given. Attendance will also be taken via IMAT, similar to the working group meetings (Rick Tressler gave a brief overview and the website address, as sign-in for this general meeting is available there, listed as MCATT under PE/SB WM2015). <https://imat.ieee.org/my-site/home>.

Michael Kipness, Program Manager – Technical Program Development from the IEEE Standards Association (SA) was present and was introduced as SBC's new SA staff liaison effective this Winter 2015 SBC meeting. Michael is replacing Malia Zaman. Rick Tressler provided the committee with contact information for Michael Kipness.

The minutes from the Summer 2014 Newport, RI meeting were approved.



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2. Document status:

Standards and Working Group Status

Jim McDowall and the working group chairs provided an update on the various standards.

PAR #/ WG	Subject	Chair	Last Issued	Status
450	Vented Lead Acid Maint and Testing	Clark	2010	Revision PAR will need to be opened. Not a full document review. Meeting Monday 1/12/15 1:00 PM to 3:00 PM.
484	Vented Lead Acid Installation	LaMarca	2002-R2008	WG will not meet on Wednesday 1/14/15 from 8:00 AM to 10:00 AM as shown on schedule. Active PAR expires 2017. Document expires 2018. Will need new WG Chair. (Per Jim McDowall).
485	Lead Acid Sizing	Fletcher	2010	Approved 2010. Document expires 2020. No activity. (Per Jim McDowall.)
535	Nuclear Battery Qualification	Beavers	2013	Approved 2013. No activity. (Per Jim McDowall).
946	DC Systems Design	Nasrat	2004	PAR expires 2015. Document expires 2018 Resubmit PAR for new title and scope and request a 2 year extension. Haissam Nasrat asked for a volunteer for Secretary. Richard Hutchinson accepted the role of Secretary. Meeting Monday 1/12/15 1:00 PM to 5:00 PM and Wednesday 1/14/15 8:00 AM to 10:00 AM.
1106	Ni-Cd Install, Maint, and Testing	Pryer	2005-R2011)	Document has gone through initial balloting. Comment resolution needs to be completed and completion of re-circulation. (per Jim McDowall). Meeting Tuesday 1/13/15 3:00 PM to 5:00 PM. (Agenda schedule change)
1115	Ni-Cd Sizing	McDowall	2005-R2011)	Approved 2014. No activity.
1184	UPS Battery	Patel	2011	Waiting on completion of 1189 before opening a PAR. Document expires 2021. (Per Jim McDowall).
1187	VRLA Installation	Polenz	2013	Document approved 2013. No activity.



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PAR #/ WG	Subject	Chair	Last Issued	Status
1188	VRLA Maint and Testing	Cantor	2004-R2010	Reaffirmed in 2010, amendment approved in 2014. (Per Jim McDowall).
1189	Battery (VRLA) Selection	Marrero	2007	PAR expires 2016. Document expires 2018. Work continues. Meeting Tuesday 1/13/15 8:00 AM to 12:00 PM and Wednesday 1/14/15 10:00 AM to 12:00 PM.
1375	Battery Protection	Uhlir	1998-R2003	Re-affirmed 2003. Document expires 2018. Looking to harmonize document with 946 as 946.1.
1491	Battery Monitoring	Lambert	2012	Open PAR expires 2018. Document expires 2022. Meeting Wednesday 1/14/15 1:00 PM to 5:00 PM.
1578	Spill Containment	McCluer	2007-R2012	PAR issued 8/20/14. PAR expires 2018. Document expires 2018. No extension request can be made. Meeting Thursday 1/15/15 8:00 AM to 11:30 AM. Steve McCluer retiring as Chair at conclusion of this meeting. John Polenz will become new Chair.
1625	Portable Computer Batteries	Layton	2008	SBC sponsors, however no activities at the SBC meetings. Document expires 2018. (per Jim McDowall).
1635	Ventilation Document	Clark	2012	Document approved 2012. Will submit PAR in 2015 for corrigenda. ASHRAE is involved. Meeting Monday 1/12/15 3:00 PM to 5:00 PM.
1657	Technician Qualification	Ashton	2009	PAR for amendment expires 2018. Document expire 2019. WG will not meet on Wednesday 1/14/15 from 10:00 AM to 12:00 AM as shown on schedule.
1660	Battery Cycling	Corey	2008	Document expires 2018. No support in SBC to maintain the document. Possibly offer the document to SCC21. (Per Jim McDowall).
1679	Emerging Battery Technologies	McDowall	2010	Approved 2010. Document expires 2020. No activity.



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PAR #/ WG	Subject	Chair	Last Issued	Status
1679.1	Emerging Technologies	Nispel		PAR expires 2015. Need extension request on PAR. Meeting Tuesday 1/13/15 1:00 PM to 3:00 PM. Agenda schedule shows 1:00 PM to 5:00 PM. (per Jim McDowall, Vice Chair).
1679.2	Sodium Batteries	Chatwin		PAR expires 2015. Meeting Wednesday 1/14/15 8:00 AM to 12:00 PM. (per Jim McDowall).
1725	Cell Phone Battery	Howard	2011	No report, No activities. (corporate standard) (Per Jim McDowall).
P1881	SBC Glossary	McCluer		PAR expires 2016. Meeting Tuesday 1/13/15 8:00 AM to 10:00 AM. Steve McCluer retiring as Chair at conclusion of this meeting. Michael Carmel will become new Chair. Chris Belcher Vice Chair.
P2405	Utility Battery Chargers	Salander		PAR expires 2017. Meeting Tuesday 1/13/15 1:00 PM to 5:00 PM.
Codes WG	Mostly NFPA Codes	McCluer		Activity will be NEC 2017 submissions. Meeting Tuesday 1/13/15 10:00 AM to 12:00PM. Steve McCluer retiring as Chair at conclusion of this meeting. Bill Cantor will become new Chair.
SDS task force	formerly MSDS	Polenz		Meeting Thursday 1/15/15 8:00 AM to 11:30 AM.
NWG	Nuclear Working Group	Salgia		Sal Salgia has taken over as Chair from Jeff LaMarca (retired). Joe Stevens- Vice Chair. Meeting Wednesday 1/14/15 1:00 PM to 5:00 PM.



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3. Coordination Reports

ATIS (T1-E1) report by Curtis Ashton – Currently has one (1) –battery standard. Contact Curtis Ashton for more information.

NFPA report by Steve McCluer – NEC Article 480 revisions- A task group has been formed by NFPA to consolidate all battery related requirements into one article called Stored Electrical Energy Systems. Bill Cantor is representing SBC at the NEC meeting that is meeting Week of January 12, 2015. Draft is expected to be circulated Summer 2015 for comments.

NFPA 70E was published 2014. Deadline for public comment is June 2015 for next edition.

NFPA 70B – Electrical Equipment Safety, next edition is expected to be published in 2016.

With Steve McCluer’s impending retirement, Bill Cantor will assume responsibilities for NFPA coordination.

NERC PRC-005-2 – Rick Tressler and Kurt Uhlir reported PRC-005-03, Protection Systems and Automatic Reclosing Maintenance has now been implemented. PRC-005-04 has been filed and is pending regulatory approval. PRC-005-04 added sudden pressure relaying maintenance and is titled Protection Systems, Automatic Reclosing and Sudden Pressure relaying Maintenance. The battery testing requirements from PRC-005-02 are the same in PRC-005-03 and PRC-005-04.

Battcon – Rick Tressler reported that 2015 Battcon will be Tues-Thurs May 12-14, 2015 in Orlando, FL at the Hilton Bonnet Creek Hotel (plus May 11 paid training sessions). Details are at www.battcon.com, including an ever-standing call for papers.

INTELEC – Steve Vechy – Telecom Energy Conference. Steve reported that the next INTELEC conference is scheduled for October 18 -22, 2015 in Osaka, Japan at the Swissotel. There is currently a call for papers with an abstract submission deadline of 2/20/2015. The 2016 conference is scheduled for October 23 – 27, 2016 in Austin, TX. Details at www.intelec.org.

NewNEB (NE Battery) Conference – Art Salander reported that the first conference held October 2014 on Long Island was a success. The next conference is scheduled for October 27 -28, 2015 in Lehigh Valley, PA at the Holiday Inn Conference Center. NewNEB is actively looking for papers and “teachers” for the October 2015 conference. Details at www.newneb.com.

InfoBatt – Zbig Noworolski reported that the next Canadian Electrical Power Symposium, InfoBatt, is scheduled for February 28 – March 1, 2016 in Toronto, Ontario at the Hilton Garden Inn. InfoBatt is looking for those who would like to submit a paper for presentation. Details at www.infobatt.com.



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IEEE 650 (Qualification of Class 1E Static Battery Chargers and Inverters and UPS Systems for Nuclear Generating Stations) sponsored by PE/NPE - – Haissam Nasrat reported that the PAR expires in 2015.

Haissam also discussed **1714 Working Group (WG)** – UPS and UPS Systems sponsored by IAS/Petroleum & Chemical Industry Committee (PCI). This WG needs members. If interested please contact Haissam Nasrat or Yves Lavoie.

SCC 18 (IEEE representation to NFPA codes and standards) - Steve McCluer reported that Bill Cantor sits on SCC-18 representing the SBC.

4. Site Selection Committee

Next Meeting - Summer 2015 – Yves Lavoie of Primax is hosting/organizing the meeting in Quebec City, Quebec May 31 – June 4, 2015 at the Hotel Clarendon. Room rates will be \$142 (Cdn) per night before tax for a regular room (1 Queen or 2 Doubles), \$162(Cdn) per night before tax for a corporate room (1 Queen or 1 King). Sunday and Thursday meeting room fees will be \$10 (Cdn) per day tax included and Monday – Wednesday meeting room fees will be \$20 (Cdn) per day tax included. To make reservations you must fill a form that will be posted on the SBC website. Go to <http://www.ewh.ieee.org/cmt/PES-SBC/meetings.html> . This form will need to be e-mailed to the hotel to book your reservation. The form may also be faxed or attendees may contact the hotel by phone to make the reservation. Reservations must be pre-paid. **Group code will be: Primax Technologies 391451.** .

Winter 2016 Meeting- Lesley Varga reported progress being made in selecting a hotel location in the Atlanta, GA area. Lesley is looking at Midtown Atlanta, GA Tech Conference Center and Buckhead.

Summer 2016 Meeting - Raj Dhiman of LaMarche presented three (3) - locations in the Chicagoland area for the Summer 2016 meeting, June 12 -16, 2016 (tentative): Downtown Chicago (InterContinental Hotel), Rosemont (O'Hare Airport) aLoft Hotel, and Evanston (North Suburban). The committee voted as follows: (11) – votes for Downtown Chicago, (30) - votes for Rosemont and (13) – votes for Evanston. Raj will continue to work on the Rosemont location as our first choice and Evanston as second choice.

Winter 2017 Meeting – Tania Martinez-Navedo reported that a hotel near the airport in San Juan, PR would be a preference.

Wayne Johnson requested volunteers to host/organize the Winter 2018 meeting and Summer 2018 meeting. Any volunteers with interest should contact Wayne Johnson.



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The following companies and/or individuals have indicated that they would like to sponsor/organize a meeting, Please find below the list of preliminary upcoming meeting locations:

Date	Location	Sponsor
Summer 2015	Primax Quebec City	Yves LaVoie June 14-18 2015
Winter 2016	QSS Atlanta (Buckhead or GA Tech)	Lesley Varga January 2016
Summer 2016	LaMarche Chicago (Rosemont or City)	Raj Dhiman June 12 – 16 2016 (tentative)
Winter 2017	NRC San Juan PR	Tania Martinez January 2017
Summer 2017	TVA Chattanooga, TN	Tom Carpenter June 2017
Winter 2018	TBD	TBD
Summer 2018	TBD	TBD

Please keep in mind that locations are subject to change based on prevailing conditions at each sponsor’s company. This list serves as a guideline and can be changed with sufficient notice to the group.

5. Sunday Technical Sessions

A discussion was held for the Sunday Technical Sessions at the Summer 2015 Meeting on Sunday May 31, 2015 in Quebec City. Committee voting for the Sunday Technical Sessions resulted in the following agenda for the Summer 2015 Meeting:

- Topic #1 – Discharge Testing (Partial Discharge, Service test Low Voltage Cells, etc.) – David Franklin, Chair
- Topic #2 – Distributed Energy Storage (Smart Grid) – Mike George, Chair

6. Membership, Recognitions and Awards

New member David Franklin of Enercon was recognized.

Rick Tressler reported that there will be a membership outreach table at Battcon, May 12 – 14, 2015 to attract new membership into the SBC.

Membership details and requirements can be found at <http://www.ewh.ieee.org/cmte/PES->



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SBC/index.html. Once on the site, click “Membership” link.

Samuel Norman, SBC Awards Coordinator discussed a desire to elevate IEEE members of the SBC to Senior Member status.

Samuel Norman recognized the following members of SBC:

Steve Clark was recognized for recently becoming a Registered Professional Engineer (PE).

Lesley Varga was recognized for her past six years of service on the SBC Executive Committee.

Paul Hectors was recognized for his service in the SBC and for his role of maintaining the SBC website.

7. New Business

PES Restructure Proposal - Rick Tressler lead the discussion on the IEEE – Power and Energy Society (PES) restructure proposal of the Technical Committees (TC). This proposal forms a new committee, Energy Storage and Stationary Battery (ESSB) in which SBC would fall under and report to as a subcommittee or working group. The Distributed Generation and Energy Storage Subcommittee that now falls under and reports to the Energy Development and Power Generation Technical Committee (ED&PGC) would also be moved under ESSB as a subcommittee or working group. This proposal is being made by PES in an attempt to have one (1) – committee that addresses and is responsible for all things energy storage including stationary batteries. SBC membership was polled via e-mail in November – December 2014 asking for each members vote and comments on the proposal.

Results of the e-mail poll performed in November and December 2014 of the SBC membership are as follows:

Received response from 58 of the 59 SBC members as of November 2104 (98% response).

(41), or 71% of membership, Disapproved of merging under the proposed ESSB TC.

(13), or 22% of membership, Approved of merging under the proposed ESSB TC.

(4), or 7% of membership Abstained.

Majority of membership expressed concern during the polling process and during this meeting (SBC Winter 2015 General Meeting) that the PES has not provided sufficient information on the restructuring proposal to make an informed decision.



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As the SBC Winter 2015 meeting is taking place, the PES Joint Technical Committee Meeting (JTCM) is also taking place in Garden Grove, CA to further discuss the PES restructure proposal. In order to have due representation at the JTCM, the SBC Executive Committee asked Chris Searles to attend. The SBC Executive Committee expects Chris Searles, upon his return, to provide an update at the Closing Meeting on what transpired at the JTCM.

IEEE 1660 – (IEEE Guide for Application and Management of Stationary Batteries Used in Cycling Service) – Rick Tressler indicated that SBC has no members to maintain and support this document. A discussion was held within the committee members of the pros and cons of SBC continuing support and ownership of this document. The option of offering the document to SCC-21, Standard Coordinating Committee on Fuel Cells, Photovoltaics, Dispersed Generation, and Energy Storage was discussed.

Michael Kipness is to find out how many copies of IEEE Std. 1660 have been sold to date to gauge an interest in this Guide.

Rick Tressler called for a motion to have the SBC vote on SBC continuing ownership of IEEE Std. 1660. Steve Clark made the motion. Curtis Ashton seconded the motion. The decision will be the majority of the quorum. Jim McDowall mentioned that the document expires in 2018 and modified the motion as follows: Vote to release the document from SBC at the end of 2018 at which time the document expires. The modified motion was seconded.

SBC membership voting was as follows:

(28) – 73.7% of quorum, In Favor of releasing IEEE Std. 1660 from SBC at the end of 2018.

(1) – 2.6% of quorum, Against releasing IEEE Std. 1660 from SBC at the end of 2018.

(9) – 23.7% of quorum, Abstained.

Standards Association (SA) Public Review Period – Rick Tressler and Michael Kipness reported on the public review period that SA is establishing beginning April 2015. This will offer a means for the public to review draft standards/ballot documents. The public must purchase the draft standards/balloting documents from IEEE in order to participate in the review process. There will be a 60 day public comment period that is concurrent with the balloting comment cycle. The public cannot vote or ballot. The public can only offer comments which must be addressed by each respective WG along with all other ballot comments.



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IEEE/SA “Join Me Pro” – Rick Tressler and Michael Kipness reported on “Join Me Pro” IEEE membership benefit that is for standards development work only. This is an online meeting and conference call service that can be used for WG online meetings. The web addresses (URL) are as follows for this service:

<https://iee-sa.centraldesktop.com/joinme/doc/31378313/w-JoinMe>

<https://iee-sa.centraldesktop.com/joinme/doc/32297589/w-JoinMeIntroductoryWebinar>

RevCom Guides For WG Chairs: Rick Tressler reported on primary areas of interest to WG Chairs. Conventions, guidelines and information for sponsors. Go to:

<http://standards.ieee.org/about/sasb/revcom/guides.html> for more information.

Disclosure of Affiliation – Rick Tressler reported on Section 5.1.2.3 of the IEEE – SA Standards Board O & M. All SBC membership and guest must disclose their **ultimate parent entity**. The ultimate parent entity is an entity that directly or indirectly, through one or more intermediaries, controls the entity identified as the individual’s affiliation.

Working Group (WG) Meeting Reminders: Rick Tressler reminded the SBC membership and WG Chairs of the following:

WG rosters must be updated thru **Myproject** at each WG meeting.

The **Patent Slides** must be presented at the start of each WG meeting. The Patent Slides were shown.

The **Instructions for WG Chairs** slide was shown and discussed.

Document drafts must be provided (and will be posted) before and after each meeting (draft will not be deleted).

WG Chairs must provide the Secretary (Kurt Uhler) the minutes and drafts of the session in a timely manner. It is strongly recommended that these be provided to Kurt Uhler **BEFORE** the end of the week the meeting is held. The minutes and drafts can be e-mailed to kurt@standbypowersys.com.

IMAT – IEEE Meeting Attendance Tool – Rick Tressler reminded the membership that there are no paper attendance sheets. Attendance records for all WG sessions are required. This includes Join Me online sessions, teleconferences and anytime collaborative development of the document occurs.

- Get a free IEEE Web Account
- Set your Myproject interest area
- Log onto IMAT at <https://imat.ieee.org/my-site/home>.
- Register your attendance by selecting the breakout session you are participating in.
- Contact Jim McDowall for further questions and to coordinate IMAT attendance tool schedule.



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SBC WG Meeting Agenda Changes-

Tuesday Afternoon **Room "B"** (St. Jerome).

1679.1 will meet 1:00-3:00 (was 4 hours per the agenda schedule).

1106 will meet 3:00-5:00 (added, not on agenda schedule).

Wednesday Morning **Room "A"** (Frontenac) 8:00-12:00.

484 and **1657** are not meeting per the agenda schedule.

946 will meet 8:00-10:00.

1189 will meet 10:00-12:00.

The SBC General Meeting was recessed by Rick Tressler at 11:58 AM (Local Time) until approximately 11:30 AM (Local Time) on Thursday, January 15, 2015.

Monday, January 12, 2015 (Afternoon)

Working Group meetings commenced.

Tuesday, January 13, 2015

Working Group meetings continued.

Wednesday, January 14, 2015

Working Group meetings continued.

Thursday, January 15, 2015 (Morning)

Working Group meetings continued until mid-morning. At which time, the full committee was reconvened to discuss progress of the working groups and sub-committees request sessions for the next meeting.

Closing Meeting on Thursday January 15, 2015:

Rick Tressler reconvened the General Meeting at 11:30 a.m. Rick thanked David Franklin for hosting and organizing the meeting.

Rick Tressler reminded WG Chairs to get minutes (and before and after drafts if applicable) to Kurt Uhler as soon as possible following the meeting. The agenda for SBC Summer 2015 Meeting in Quebec City will be forthcoming and is subject to change.



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Chris Searles provided an update to the SBC membership on the JTCM he attended representing the SBC on January 11 and 12, 2015 in Garden Grove, CA regarding the PES restructure proposal. Chris stated that it is PES' desire to establish a new committee, Energy Storage and Stationary Battery (ESSB), and move SBC under ESSB as a subcommittee or working group as well as moving the Distributed Generation and Energy Storage Subcommittee that currently falls under and reports to the Energy Development and Power Generation Committee (ED&PGC) under ESSB as a subcommittee or working group. Chris also discussed the possibility of moving SCC-21 under ESSB.

Working Group Chair reports & Sessions required for the SBC Summer 2015 meeting:

Standard/PAR#	Status - End of This Meeting	Sessions Needed	Session Duration (Hours)
450	Revision PAR will be opened, however not a full document revision. Steve Clark is stepping down as Chair. Jason Wallis will become new Chair.	0	0
484	Needs time for comment resolution	1	4
485	No report	0	0
535	No report	0	0
946	New PAR to be submitted	2	4
1106	Comment resolution. Complete recirculation before Summer 2015 meeting and submit to RevCom.	0	0
1115	No activity	0	0
1184	Waiting on completion of 1189 before opening a PAR. Document expires 2021.	0	0
1187	No activity.	0	0
1188	No activity	0	0
1189	PAR expires 2016. Document expires 2018. Work continues.	2	4
1375	No activity. Re-affirmed 2003. Document expires 2018. Will need new chair as Kurt Uhlir has assumed SBC Secretary position even with working towards harmonizing document with 946 as 946.1	0	0
1491	Work continues on open PAR	1	6
1578	Work continues on open PAR. John Polenz new Chair.	1	4
1635	Will submit PAR in 2015 for corrigenda	1	2
1657	Amendment ballot comment resolution	1	2
1660	No action. SBC membership voted to release document from SBC in 2018 when document expires.	0	0



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Standard/PAR#	Status - End of This Meeting	Sessions Needed	Session Duration (Hours)
1679	No activity	0	0
1679.1	PAR expires 2015. Need extension request on PAR	1	4
1679.2	PAR expires 2015	1	4
P1881	PAR expires 2016. Michael Carmel to become new Chair. Chris Belcher Vice Chair.	1	2
P2405	Work continues. PAR expires 2017	1	4
Codes WG	Bill Cantor to become new Chair. (Rick Tressler to e-mail Bill Cantor to find out if any time or session is needed at Summer 2015 Meeting)	0	0
Nuclear WG	Sal Salgia has taken over as Chair. Joe Stevens- Vice Chair. Next meeting to discuss changes in regulations, battery issues, OPEX.	1	4
SDS WG	SDS finalized. Steve Vechy to forward to BCI for review.	0	0

Michael Kipness discussed **Quorum**. A quorum is 50% of membership. Michael stated that if a WG does not have a quorum in a meeting, then a letter ballot is needed for any document changes. All WG Chairs need to manage WG member rosters.

Michael Kipness asked that all WG Chairs and the SBC Executive committee review the SBC Policy & Procedures (P&P) and WG Policy & Procedures (P&P). The P&Ps are posted on the SBC website.

SBC membership bid a fond farewell and happy retirement to Steve McCluer. Steve was thanked for his many years of services and contributions to the SBC, codes and standards (NFPA), and the stationary battery industry. Steve is a recognized expert and leader in industry codes and standards and his leadership and involvement in SBC will be truly missed!

Yves Lavoie reminded the SBC membership of our next meeting (Summer 2015), scheduled for May 31 – June 4, 2015 in Quebec City. Yves is hopeful that registration for the Summer 2015 meeting will open by the end of January/ beginning of February. Yves will send all hotel registration details and forms to Kurt Uhler (Secretary) for posting to the SBC website.

A motion to adjourn the meeting was made and seconded. Meeting adjourned by Rick Tressler at 12:01 PM (Local Time).