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IEEE PES STATIONARY BATTERY COMMITTEE

## **PES Stationary Battery Committee (SBC) Meeting Minutes**

**Monday June 1, 2015 Quebec City, QE**

### **General Meeting**

#### **1. Meeting Opening and Introductions**

The meeting was called to order by committee Chair Rick Tressler at 8:07 AM (Local Time) on Monday, June 1, 2015.

As of June 1, 2015, there were currently 62 members of the SBC.

There were 60 people attending the general session, 36 of which are voting members (membership) of the Committee.

Welcome to all attendees, members and guest.

Yves Lavoie from Primax organized the SBC Summer 2015 Quebec City meeting. Yves welcomed the committee members and guest and provided housekeeping and local area information.

Rick Tressler introduced the 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>.

Bill Ash, Strategic Program Manager from the IEEE Standards Association (SA) was present and was introduced. Bill was attending the meeting in the absence of Michael Kipness (SA staff liaison to SBC). Bill provided his e-mail address [w.ash@ieee.org](mailto:w.ash@ieee.org) for anyone whom may want to contact him.

The minutes from the Winter 2015 New Orleans, LA 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	Wallis	2010	Revision PAR will need to be opened. Not a full document review. Document expires 2020.
484	Vented Lead Acid Installation	LaMarca	2002-R2008	WG will meet on Monday 6/1/15 from 1:00 PM to 5:00 PM as shown on schedule. WG is in comment resolution for this meeting. Active PAR expires 2017. Document expires 2018.
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. Document expires 2023. (Per Jim McDowall.)
946	DC Systems Design	Nasrat	2004	PAR expires 2015. A request for PAR extension (2017 expiration) will be submitted by August 2015. Document expires 2018. WG will meet Monday 6/1/15 from 1:00 PM to 5:00 PM and Tuesday 6/2/15 from 8:00 AM to 12:00 PM.
1106	Ni-Cd Install, Maint, and Testing		2005-R2011)	Active PAR. Ballot recirculation is complete. Needs to be sent to RevCom.
1115	Ni-Cd Sizing	McDowall	2005-R2011)	Approved 2014. No activity. Document expires 2024.
1184	UPS Battery	Patel	2006 - R2011	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. Document expires 2023.
1188	VRLA Maint and Testing	Cantor	2004-R2010	Reaffirmed in 2010, amendment approved in 2014. Document expires 2020. (Per Jim McDowall.)



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PAR #/ WG	Subject	Chair	Last Issued	Status
1189	Battery (VRLA) Selection	Marrero	2007	PAR expires 2016. Document expires 2018. Extension of PAR will be requested. WG will meet Tuesday 6/2/15 1:00 PM to 5:00 PM and Wednesday 6/3/15 8:00 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. Need new chair to replace Kurt Uhlir.
1491	Battery Monitoring	Lambert	2012	Open PAR expires 2018. Changing from Guide to recommended Practice. Document expires 2022. WG will meet Tuesday 6/2/15 8:00 AM to 12:00 PM.
1578	Spill Containment	Polenz	2007- R2012	PAR expires 2018. Document expires 2018. No extension request can be made. WG is in comment resolution for this meeting. WG will meet Tuesday 6/2/15 1:00 PM to 5:00 PM. WG is looking for vice chair and secretary.
1625	Portable Computer Batteries	Layton	2008	SBC sponsors, however no activities at the SBC meetings. Document expires 2018. Corporate document (per Jim McDowall).
1635	Ventilation Document	Clark	2012	Document approved 2012. Will submit PAR for corrigenda. ASHRAE is involved. WG will meet Thursday 6/4/15 8:00 AM to 9:45 AM.
1657	Technician Qualification	Ashton	2009	PAR for amendement expires 2018. Document expire 2019. Ballot comments have been sent to SA and going out for recirculation. No activities scheduled for this meeting.
1660	Battery Cycling	Corey	2008	Document expires 2018. No support in SBC to maintain the document. Need to talk to Michael Kipness (SA) regarding offering document to SCC21. (Per Jim McDowall).



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PAR #/ WG	Subject	Chair	Last Issued	Status
1679	Emerging Battery Technologies	McDowall	2010	Approved 2010. Document expires 2020. No activity this meeting. May begin revision process Winter 2016 meeting.
1679.1	Emerging Technologies	Nispel		PAR expires 2015. Need PAR extension request. WG will meet Wednesday 6/3/15 1:00 PM to 5:00 PM. (per Jim McDowall, Vice Chair).
1679.2	Sodium Batteries	Chatwin/ Miraldi (Co-Chairs)		PAR expires 2015. WG will meet Thursday 6/4/15 8:00 AM to 11:30 AM.
1725	Cell Phone Battery	Howard	2011	No report, No activities. Corporate document. Document expires 2021. (Per Jim McDowall).
P1881	SBC Glossary	Carmel		PAR expires 2016. WG will meet Thursday 6/4/15 9:45 AM to 11:30 AM.
P2405	Utility Battery Chargers	Salander		PAR expires 2017. WG will meet Wednesday 6/3/15 8:00 AM to 12:00 PM.
Codes WG	Mostly NFPA Codes	Cantor		NEC 2017 out for public comments. No activities scheduled for this meeting.
SDS task force	formerly MSDS	Polenz		No activities scheduled for this meeting.
NWG	Nuclear Working Group	Salgia		WG scheduled to meet Wednesday 6/3/15 1:00 PM to 5:00 PM.



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### 3. Coordination Reports

**ATIS (T1-E1) report** by Curtis Ashton – Meets three (3) – times per year. Next meeting is in August 2015 in Washington DC. ATIS requires membership and an individual must have permission to attend meeting as a visitor. Contact Curtis Ashton for more information or go to [atis.org](http://atis.org).

**NFPA – No report.**

**NERC PRC-005-2** – Chris Searles, (SBC NERC Task Force Chair) reported that the PRC-005 drafting team is working on PRC-005-06. Chris discussed the current requirements of Tables 1-4(a), 1-4(b) and 1-4(f) of PRC-005 that demonstrate that the battery will “perform as manufactured”. A motion was made by Kurt Uhler have Chris Searles draft a SAR and submit to NERC on behalf of the SBC requesting changes to Tables 1.4(a), 1.4(b), and 1.4(f) to comply with the requirement to prove the batteries will "perform as manufactured." The motion was seconded by Steve Clark. The SBC voted 31 in favor and 1 not in favor of the motion. Chris Searles will draft the SAR and issue to the SBC NERC Task Force for comments prior to issuing to NERC.

**Battcon** – Rick Tressler reported that 2016 Battcon will be Tues-Thurs May 10-12, 2015 in Boca Raton , FL at the Boca Raton Resort and Club (plus Monday May 9, 2015 paid training sessions). Details are at [www.battcon.com](http://www.battcon.com), including an ever-standing call for papers.

**INTELEC** – Telecom Energy Conference. Curtis Ashton reported that the next INTELEC conference is scheduled for October 18 -22, 2015 in Osaka, Japan at the Swissotel. The 2016 conference is scheduled for October 23 – 27, 2016 in Austin, TX. Details at [www.intelec.org](http://www.intelec.org).

**NewNEB (NE Battery) Conference** – Art Salander reported that NewNEB is being reorganized and that the 2015 conference has been canceled.

**InfoBatt** – Zbig Noworolski reported that the next Canadian Energy Symposium, InfoBatt, is scheduled for January 17 - 19 2016 in Toronto, Ontario. InfoBatt is looking for those who would like to submit a paper for presentation. Details at [www.infobatt.com](http://www.infobatt.com).

**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 and a PAR extension will be requested.

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



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**4. Site Selection Committee**

**Next Meeting Winter 2016 – Chris Searles** is hosting/organizing the meeting in Memphis, TN January 10 -14, 2016 at the Sheraton Memphis Downtown. The SBC meeting will be co-located with the PES JTCM. There will be meeting room fees associated with the meeting in Memphis.

Summer 2016 Meeting - Raj Dhiman of LaMarche is hosting/organizing the meeting in Chicago tentatively scheduled June 12 -16, 2016 at the aLoft Hotel in Rosemont, IL near O’Hare Airport.

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

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:

<b>Date</b>	<b>Location</b>	<b>Sponsor</b>
Winter 2016	Memphis, TN – Sheraton Memphis Downtown	Chris Searles January 10 – 14, 2016
Summer 2016	Chicago, IL – aLoft Hotel (Rosemont, IL)	Raj Dhiman - LaMarche June 12 – 16 2016 (tentative)
Winter 2017	San Juan PR	Tania Martinez – Navedo - NRC January 2017
Summer 2017	Chattanooga, TN	Tom Carpenter - TVA 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 Winter 2016 Meeting on Sunday January 10, 2016 in Memphis, TN. Committee voting for the Sunday Technical Sessions resulted in the following agenda for the Winter 2016 Meeting:

Topic #1 – Proper Charging (including recovering from over-discharge)  
 Chair: Rick Tressler, Presenters: Yves Lavoie, Dan Lambert, Steve Clark, Ramesh Desai



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Topic #2 – Partial State of Charge Operation

Chair: David Franklin, Presenters: Curtis Ashton, Jim McDowall, East Penn Manufacturing representative.

### 6. Membership, Recognitions and Awards

New members Dale Paul of Toshiba America Nuclear Energy, Steven Belisle of BAE Batteries USA and Jim Midolo of HBL Batteries were recognized. Note: Jim Midolo was officially a new member at the Winter 2015 meeting in New Orleans.

Membership details and requirements can be found at <http://www.ewh.ieee.org/cmte/PES-SBC/index.html>. Once on the site, click “Membership” link.

### 7. New Business

**SBC Annual Report** – Rick Tressler reported that the SBC annual report was filed on 1/7/2015.

**PES Restructure Proposal** – Rick Tressler led the discussion on the recent PES – Technical Council proposal. The SBC will become a subcommittee under the Energy Storage and Stationary Battery Committee (ESSB). Other subcommittees pertaining to energy storage and distributed generation will be encouraged move under ESSB.

Bill Ash, representing IEEE-SA reported that he reached out to SCC-21 Standards Coordinating Committee on Fuel Cells, Photovoltaics, Dispersed Generation, and Energy Storage. SCC-21 was not planning on moving under ESSB. Bill stated that SBC as a subcommittee under ESSB would remain as document sponsor of our current documents. ESSB will be required to develop a scope.

Chris Searles will begin to seek volunteers to assist in developing a scope for ESSB.

Organization and Procedures (O&P) and Policy and Procedures (P&P) for SBC will need to be revised as SBC will become a subcommittee under ESSB.

The PES Technical Council expectations are for the ESSB to be fully in place and operating as a committee by the PES General Meeting in July 2016.

**Working Group Quorums** – Rick Tressler reported the following:



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SA rules require a quorum of a working group membership to change documents during development process.

A quorum is defined as one-half of the working group members.

Membership is granted after attending two consecutive meetings and requests membership status.

Membership in a working group is maintained by consistently attending meetings, in person or electronically, i.e. teleconferences, web-based meetings, etc.

A member who misses two consecutive meetings or two consecutive letter ballots may have their membership revoked.

Membership is reinstated when the member attends two consecutive meetings and requests membership.

Working group officers must maintain accurate membership rosters.

Working group members are expected to participate at a level such that membership is maintained.

Failure to attend meetings can result in loss of membership in a working group.

### **Working Group Meeting Attendance**

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.

**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](mailto:kurt@standbypowersys.com).





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### **SBC WG Meeting Agenda Changes - None**

The SBC General Meeting was recessed by Rick Tressler at 11:57 AM (Local Time) until approximately 11:30 AM (Local Time) on Thursday, June 4, 2015.

#### **Monday, June 1, 2015 (Afternoon)**

Working Group meetings commenced.

#### **Tuesday, June 2, 2015**

Working Group meetings continued.

#### **Wednesday, June 3, 2015**

Working Group meetings continued.

#### **Thursday, June 4, 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 June 4, 2015:**

Rick Tressler reconvened the General Meeting at 11:32 AM (Local Time). Rick thanked Yves Lavoie 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 Winter 2016 Meeting in Memphis, TN will be forthcoming and is subject to change.



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Working Group Chair reports & Sessions required for the SBC winter 2016 meeting:

<b>Standard/PAR#</b>	<b>Status - End of This Meeting</b>	<b>Sessions Needed</b>	<b>Session Duration (Hours)</b>
450	Revision PAR will need to be opened. Not a full document review. Request not to schedule 450 WG coincidentally with Nuclear WG at Winter 2016 meeting.	1	2
484	No report	1	4
485	No report	1	4
535	No report	0	0
946	Telecom and Utility sections completed. Request not to schedule 946 WG coincidentally with Nuclear WG at Winter 2016 meeting.	2	4
1106	Ballot recirculation is complete. Needs to be sent 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	Need to extend PAR.	2	4
1375	No activity.	0	0
1491	Work continues on open PAR. JoinMe meeting will be scheduled before winter 2016 meeting.	1 1	4 2
1578	Comment resolution. Doug Frazier is new Vice Chair.	1	4
1635	Will submit PAR request for corrigenda before Winter 2016 meeting.	1	4
1657	No activity	0	0
1660	Document expires 2018. No support in SBC to maintain the document. Need to talk to Michael Kipness (SA) regarding offering document to SCC21. (Per Jim McDowall).	0	0
1679	No activity this meeting. May begin revision process Winter 2016 meeting?	0	0
1679.1	Will submit request for PAR extension	1	4



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Standard/PAR#	Status - End of This Meeting	Sessions Needed	Session Duration (Hours)
1679.2	Will submit request for PAR extension. Expect final draft by Winter 2016 meeting. Request was made to not schedule WG on Thursday of next meeting (Winter 2016) if possible.	1	4
P1881	Expect document to go to ballot. Comment resolution expected for Winter 2016 meeting.	1	2
P2405	Work continues.	2	4
Codes WG	No report	0	0
Nuclear WG	Requests that WG not meet coincidental with 450 WG and 946 WG at winter 2016 meeting.	1	4
SDS WG	No activities	0	0

A request was made to possibly move the smaller WGs to earlier in the week when scheduling for the Winter 2016 meeting. Rick Tressler will take this under advisement.

Chris Searles reminded the SBC membership of our next meeting (Winter 2016), scheduled for January 10 – 14, 2016 in Memphis, TN. Chris will send all hotel registration details and information to Kurt Uhlir (Secretary) for posting to the SBC website.

A motion to adjourn the meeting was made and seconded. Meeting adjourned by Rick Tressler at 11:48 AM (Local Time).