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IEEE PES STATIONARY BATTERY COMMITTEE

## **PES Stationary Battery Committee Meeting Minutes**

**Monday June 16, 2014 Newport RI**

### **General Meeting**

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

The meeting was called to order by committee Chair Lesley Varga at 8:00 a.m. on Monday, June 16<sup>th</sup>.

As of June 16<sup>th</sup>, 2014, there were currently 65 members of the SBC.

There were 61 people attending the general session, 38 of which were voting members of the Committee.

Welcome to all attendees, members and visitors. 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 (Lesley gave a brief overview and the website address, as sign-in for this general meeting is available there, listed as MCATT under PE/SB SM2014).

Dan Lambert organized the Newport meeting and gave some housekeeping information. He advertised the \$40 cruise on Tuesday evening – see Dan if you are interested, and haven't yet responded to get the tickets. The clambake didn't make the minimum numbers, so you have to make arrangements for that individually if you'd like to sample that fare. In order to meet the price point for the hotel, we don't have meals served at the meeting (get them at nearby places), but we do have break goodies.

Lesley listed the contact information for Malia Zaman, our IEEE staff liaison.

The minutes from the January 2014 La Jolla 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	Minor corrigenda may be needed, and Steve will work on starting that next meeting (needs a half session)
484	Vented Lead Acid Installation	LaMarca	2002-R2008	Revision vote was made, and comments will be covered this week. Will need a new chair (see NWG notes below).
485	Lead Acid Sizing	Fletcher	2010	No action (reported by José Marrero).
535	Nuclear Battery Qualification	Beavers	2013	Just reissued last October
NWG	Nuclear Working Group	LaMarca		Will need a new chair as Jeff has retired. They will meet this week with Jeff though.
946	DC Systems Design	Nasrat	2004	PAR expires 2015. Haissam noted that they hope to speed up progress on half-finished document by splitting into sub-groups. He also said (with input from Tania) that the NRC is interested in testing on short-circuit testing of batteries with chargers (not necessarily for inclusion in the document, but for purposes of the NRC). Approach Haissam if interested.
1106	Ni-Cd Install, Maint, and Testing	Pryer	2005-R2011)	Ready for ballot, and it will be coming out soon (as reported by Jim, since Shawn was not here)
1115	Ni-Cd Sizing	McDowall	2005-R2011)	Revision ballot approved, and off to RevCom
1184	UPS Battery	Patel	2011	Jim noted that work will probably start on this after 1189 finished up
1187	VRLA Installation	Polenz	2013	Just reissued.
1188	VRLA Maint and Testing	Cantor	2004-R2010	Reaffirmed in 2010, but amendment approved last year by RevCom (but not quite yet issued



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1189	Battery (VRLA) Selection	Marrero	2007	PAR expires 2016. Plodding away
1375	Battery Protection	Uhlir	1998- R2003	Open PAR to the end of 2012 expired, but document won't expire until 2018. This will probably become a 946.1 document.
1491	Battery Monitoring	Lambert	2012	Open PAR that will expire in 2018. Meeting this week.
1578	Spill Containment	McCluer	2007- R2012	Working on a PAR at this meeting (meeting this week).
1625	Portable Computer Batteries	Layton	2008	No Action.
1635	Ventilation Document	Clark	2012	A corrigenda or amendment work will start at this meeting and next to work on user comments and technical error. Because it is a joint document with ASHRAE, they need to reconstitute their committee.
1657	Technician Qualification	Ashton	2009	Adding amendment for safety comments mostly in Chapter 5 and Annex C. Will probably just send out for revision ballot in 2018.
1660	Battery Cycling	Corey	2008	No action. Discussion on whether to let it expire (will probably do so). Perhaps SCC21 might want to take the document on?
1679	Emerging Battery Technologies	McDowall	2010	No action.
1679.1	Emerging Technologies	Nispel		PAR ends at the end of 2015. Working on it this session.
1679.2	Sodium Batteries	Chatwin		WG meeting this session scheduled. PAR expires 2015.
1725	Cell Phone Battery	Howard	2011	No report (corporate standard)
P1881	SBC Glossary	McCluer		PAR expires 2016. Meeting this week.



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PAR # / WG	Subject	Chair	Last Issued	Status
P2405	Utility Battery Chargers	Salander		Conference call was held between meetings, and lots of comments to work on came out of the conference call.
Codes WG	Mostly NFPA Codes	McCluer		Worked on NFPA 72 since last meeting (done). Next activity will be NEC 2017 submissions, which we'll be working on this week.
SDS task force	formerly MSDS	Polenz		Meeting this week to make recommendations on required items for SDS. Will have presentation on the legal aspects of our SDS activities

**3. Coordination Reports**

**ATIS report** by Curtis Ashton – Has energy efficiency and power standards for telecom (under STEP subcommittee), including 380 VDC, and copper theft. Contact Curtis for more info.

**NFPA report** by Steve McCluer and Bill Cantor (member of SCC18) – NFPA 70E got plenty of good input from some of our members and our Codes WG, and 2015 edition will be coming out with those changes. Bill is the alternate for NFPA 70B (electrical maintenance) and for CMP13 on the NEC. Because the Codes WG harmonizes with SCC18, we need to give them 4 extra weeks to review our proposals.

**NERC PRC-005-2** – Chris Searles reported PRC-005-3 will take its place but the only updates in that one are not battery-related (only protective relays).

**Battcon** – Rick Tressler reported that 2015 Battcon will be Tues-Thurs May 12-14 in Orlando (plus May 11 paid training sessions). Details are at [www.battcon.com](http://www.battcon.com), including an ever-standing call for papers.

**INTELEC** – Steve Vechy – Telecom Energy Conference. Vancouver September 28 – Oct 2. Details at [www.intelec.org](http://www.intelec.org).

**NewNEB (NE Battery) Conference** – Chris Searles – Oct 27-28, 2014. Now sponsored by IEEE. Focus on utility DC power (multi-track: utility users group, plus commercial track), with NERC as the biggest thing. Will be on Long Island. P2405 session to follow on October 29<sup>th</sup>. Registration can be as low as \$200, depending on which company you are coming from. Details at [www.newneb.com](http://www.newneb.com).



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**InfoBatt** – Zbig Noworolski – Will be September 14-16 at Niagara Falls. There are no papers, but there are presentations. Speakers don’t pay (some spots are still open). Details at [www.infobatt.com](http://www.infobatt.com).

**PES General Meeting** – July 27-31, 2014 in Washington DC. SBC will sponsor two sessions (on Wednesday). Details at [www.pes-gm.org](http://www.pes-gm.org).

**IEEE 650 (UPS, Inverters, Battery Chargers for Nuclear)** – Haissam noted that there is nothing new since his last report.

**4. Site Selection Committee**

**Next Meeting - Winter 2016** – David Franklin of Enercon is hosting the meeting at the JW Marriott (\$199/night) in the French Quarter of New Orleans (Jan 11-15). Go to <http://www.ewh.ieee.org/cmte/PES-SBC/meetings.html> to book and for information that will be posted in a few weeks. Parking is \$36 per night. Need to bring projectors and pay for our own meals. David will work on setting up a night at the House of Blues.

Yves LaVoie showed us Quebec City and Montreal options for next summer’s mtg. Quebec City (week of June 12-19) would be \$159/night + mtg fees averaging about \$25/night, in a hotel in the walled city. In Montreal (week of May 30 – June 5), we’d be meeting in the Engineering college and staying at the Marriott (\$169/night, + \$23 for parking). Average airfare from an average of US Cities is about \$525 (Quebec City a little more). Quebec city won the voting hands down.

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 2015	Enercon New Orleans, LA	David Franklin January 11-15 2015
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 or July 2016
Winter 2017	NRC San Juan PR	Tania Martinez January 2017
Summer 2017	TVA Chattanooga, TN	Tom Carpenter June 2017



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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. Help for those Writing/Updating/Editing Standards

IEEE-SA templates must be used for writing our documents per Jim McDowall, and Lesley noted that there are training videos available for how to use it.

A 15 minute break was taken at 9:39 am local time, and the meeting was reconvened at 10:07 am.

### 6. Sunday Technical Sessions

A discussion was held for the Sunday Technical Sessions at the next meeting on Sunday January 11, 2015 in New Orleans. Prior to the vote, Steve McCluer presented a potential topic on battery derating. The following topics were selected by vote of the attendees:

Topic #1 – DC system failure modes – Allen Byrne, Chair

Topic #2 – Li-ion Safety and Chemistries and Potential Use in Substations – Jim McDowall, Chair

### 7. Membership

New members Gloria Bull, Chris Belcher, Dan Martin, Murad Daana, and Richard Hutchins were recognized. Jim McDowall noted that the secretary needs to keep the list updated in the manage committees portion of the website. Lesley went over how membership is acquired, and she covered membership outreach efforts at Battcon and they'll be doing some outreach at the PES general meeting as well.

### 8. New Business

**SBC Logo** – David Franklin asked if we could have our own logo, and Lesley will ask Malia.

**NY City Dept of Bldgs Mtg** – Plenty of volunteers to attend, and Troy Chatwin attended for us and will report on it at the wrap-up mtg on Thursday.

**SBC – Working Group Policies and Procedures Manual** – Lesley had an electronic vote with Adcom for the WG P&P, utilizing the PES template: it was overwhelmingly approved by us. It is posted on our website, and has been forwarded to IEEE AudCom for final approval. In addition, she is going to ask for an email vote to create a standards subcommittee consisting of the WG chairs, and vice-chairs. This will confirm compliance with the SBC O&P organization chart.



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**2014 IEEE PES General Mtg SBC Special Sessions** – At the forthcoming Washington DC PES 2014 General mtg, we have “proposed” two 2-hr panel sessions: NERC PRC 005 chaired by Chris Searles, and Battery Safety and DC Systems Arc Flash / Safety Issues Codes/Regulations Evolution (chaired by Steve McCluer). Chris also submitted a paper, and his panel session will include “presentations” from him, Rick Tressler (Table 14F), and Bill Cantor (ohmic testing). Steve will cover some of the material he and others have presented in the past, and Bill, Rick, Lesley, and Chris will serve on the panel with him. Anyone can do a 1-day pass to the meeting for just the Wednesday morning sessions.

**Patent Slides** – Lesley showed the patent slides and reminded WG chairs to cover them too.

**Submitting drafts and minutes** – Lesley reminded WG chairs that drafts need to be submitted in a timely manner to Secretary Curtis Ashton. It is strongly recommended that these be provided to Curtis BEFORE the end of the week the meeting is held.

She also reminded the Chairs or a designee to be at the Thursday meeting, and provide us with WG session time needs for the winter meeting.

The General Membership meeting was suspended at 11:01 am until approximately 11:30 a.m. Thursday, June 19<sup>th</sup>. The afternoon of Monday was devoted to WG sessions.

### **Tuesday, June 17<sup>th</sup>**

Working Group meetings continued.

### **Wednesday, June 18<sup>th</sup>**

Working Group meetings continued.

### **Thursday, June 19<sup>th</sup>**

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 19<sup>th</sup>:**

Lesley reconvened the general meeting at 11:30 a.m. She thanked Dan for hosting and organizing the meeting. Dan said the hotel wants feedback if you had issues (some given at the meeting included restaurant service and WiFi, and availability of rooms for some of the nights; plus get him any other issues by email).



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Lesley reminded WG chairs to get minutes (and before and after drafts if applicable) in to Curtis Ashton as soon as possible following the meeting. The agenda for New Orleans 2015 winter will be forthcoming and is subject to change.

Working Group Chair reports & Sessions needed for the winter 2015 meeting:

<b>Standard/PAR#</b>	<b>Status - End of This Meeting</b>	<b>Sessions Needed</b>	<b>Session Duration (Hours)</b>
450	No input	1	2
484	Resolving comments to ballot	1	4
485	Initial ballot to occur soon	0	0
535	No input	1	4
946	Will need additional mtg space and projectors (total of 4) for subcommittees at New Orleans	2	6
1106		1	4
1115	Gone to ballot	0	0
1184	May need PAR, but not due until 2021. Send issues or comments by email to Bansi. 1189 changes will affect 1184	0	0
1187	No input	0	0
1188	No input	0	0
1189	Need additional meeting space for subcommittees in New Orleans	2	6
1375	No action. Will need new chair as Kurt steps into an SBC leadership role, even though this document may become 946.1	0	0
1491	There will be web meetings between now and New Orleans	2	6
1578		1	4
1635	Possibly might fit into same session as 450	1	2
1657	Should ballot, and will probably need ballot resolution	1	2
1660	No action (will probably let expire – need formal vote from main committee)	0	0
1679		0	0
1679.1	Made some progress.	1	4
1679.2	Homework was assigned and progress was made	1	4





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Standard/PAR#	Status - End of This Meeting	Sessions Needed	Session Duration (Hours)
P1881	Steve McCluer will be retiring in the next couple of years, so we have Mike Carmel and Chis Belcher as vice-chair and secretary (respectively) to be in the line of succession. Interim web mtgs will be held. Jim McDowall volunteered to be new succession secretary when Steve retires.	1	2
P2405		1	4
Codes WG	There will be interim web meetings.	1	2
Nuclear WG		1	4
SDS WG		1	4

Kurt thanked Lesley for her 6 years of service, and Steve Clark thanked Chris for several years worth of semi-annual meeting setup help.

Motion to adjourn the meeting was made and seconded. Meeting adjourned by Lesley at 11:45 a.m.