



 IEEE PES STATIONARY BATTERY COMMITTEE

PES Stationary Battery Committee Meeting Minutes

Monday June 10, 2013 Kansas City, MO

General Meeting

1. Meeting Opening and Introductions

The meeting was called to order by committee Chair Leslie Varga at 8:00 a.m. on Monday, June 10th.

As of June 10th, 2013, there were currently 54 members of the SBC. There were 62 people attending the general session, 35 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 (Jim McDowall, Curtis and Leslie gave a brief overview and the website address, as sign in for this general meeting is available there as well).

Chris Searles, Ed Rogers, and Ed Rafter organized the Kansas City meeting. Ed Rogers covered housekeeping items, and Leslie introduced the hotel general manager (John Cassell), who gave out some local information. Chris gave out information on the name tags, as well as the room rates vs. conference fees.

The minutes from January 2013 Tucson meeting were approved.

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	No current activity.
484	Vented Lead Acid Installation	LaMarca	2002-R2008	May start considering a PAR in the soon.



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PAR # / WG	Subject	Chair	Last Issued	Status
485	Lead Acid Sizing	Fletcher	2010	No action. Possibly start thinking about a revision in summer of 2014.
535	Nuclear Battery Qualification	Beavers	2006	Document was balloted, and there are some negatives to address (ballot resolution group will meet this week. There will be a recirculation and finish up by end of year)
NWG	Nuclear Working Group	LaMarca		Not a document. Bob Beavers gave a brief update.
946	DC Systems Design	Nasrat	2004	PAR expires 2015, and document expires 2018. Expanding the document to address all of our main user communities. Will break into sub-groups. NEMA PE5 work is somewhat related – IEEE working with NEMA on cooperation and transfer of copyright.
1106	Ni-Cd Install, Maint, and Testing	McDowall	2005-R2011)	Open PAR, submitted, but not yet approved. PAR expires for this and 1115 in 2017
1115	Ni-Cd Sizing	McDowall	2005-R2011)	Par submitted, not yet approved.
1184	UPS Battery	Patel	2011	Will be splitting up the selection side and move to 1189. No meeting this time.
1187	VRLA Installation	Polenz	2002	Will be addressing recirculation ballot comments before end of year.
1188	VRLA Maint and Testing	Cantor	2004-R2010	Reaffirmed in 2010. Open PAR for Amendment A (that expires in 2014) that Bill and Pete DeMar are working on and should be out for ballot in a few months.
1189	Battery (VRLA) Selection	Marrero	2007	PAR was submitted by WG chair June 2011, and it expires 2016. Scope is widely expanded to include all battery type selection.
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.



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PAR # / WG	Subject	Chair	Last Issued	Status
1491	Battery Monitoring	Lambert	2012	No action. Having a meeting this time to see if a PAR needs to be considered.
1578	Spill Containment	McCluer	2007-R2012	Working on a PAR to start in 2014. Want a 2-hour session in Winter 2014.
1625	Portable Computer Batteries	Layton	2008	No Action. These chairs need to report to us (Leslie can ask them for reports via email and they are required to respond).
1635	Ventilation Document	Clark	2012	Published Oct 2012. Steve willing to give up chairmanship.
1657	Technician Qualification	Ashton	2009	Might open up to add DC arc flash/blast safety
1660	Battery Cycling	Corey	2008	No action. Discussion on whether to let it expire. Malia will get us sales records of all documents.
1679	Emerging Battery Technologies	McDowall	2010	No action.
1679.1	Emerging Technologies	Nispel		Working on subsidiary document. PAR ends at the end of 2015. Working on it this session.
1679.2		Chatwin		WG meeting this session scheduled. PAR expires 2015.
1725	Cell Phone Battery	Howard	2011	These chairs need to report to us (Leslie can ask them for reports via email and they are required to respond).
1881	SBC Glossary	McCluer		PAR expires 2016. Meeting this week.
Codes WG	Mostly NFPA Codes	McCluer		NFPA 111: Several web calls upcoming and have been ongoing. NFPA 70 (NEC): We have several proposals and Steve will be attending NFPA meetings this week. NFPA 70E: Ongoing work on several issues, including those talked about in "new business" session.
SDS task force	formerly MSDS	Polenz		not a document – presentation given in general meeting's "new business" session



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3. Coordination Reports

ATIS report by Curtis Ashton – Has energy efficiency and power standards for telecom (including a VRLA battery standard. Contact Curtis for more info.

NERC PRC-005-2 – Chris Searles reported that it is finalized and you can find it on the difficult to navigate website. 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 on Battcon 2013. 2014 BattCon May 5-7 in Boca Raton. Details are at www.battcon.com.

INTELEC - Curtis Ashton – Telecom Energy Conference. Hamburg, Germany in October 2013. Details at www.intelec.org. Call for papers is out. There is also a disaster recovery workshop this summer (July 16-17) in New Jersey (see link on Intelec website). 2014 will be in Vancouver.

NewNEB (NE Battery) Conference – Chris Searles – Oct 7-8, 2013. Now sponsored by IEEE. Focus on utility DC power. Will be on Long Island.

InfoBatt – Yves LaVoie – Will be in Sept. 15 week at Niagara Falls.

PES General Meeting – July 21-25, 2013 in Vancouver. Lesley Varga, SBC Chair, will be attending. Details at www.pes-gm.org.

4. Site Selection Committee

Next Meeting - Winter 2014 – Wayne Johnson gave an overview of the winter 2014 meeting to be held January 5-9 at the La Jolla (near San Diego) Marriott. All-inclusive rate around \$149-\$159? 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.

Dan reported that the choice in Rhode Island for the summer 2014 meeting is between \$155/night Providence airport hotel, or Newport hotel for similar price (can be shuttled from airport – don't need rental car). Informal vote in meeting was for Newport instead of Providence.

Allen proposed that deep-pocketed companies sponsor meetings and pick up tab for everything besides hotel rooms (about \$3,000 - \$4,000, typically), which was typical several years ago for these meetings. He also proposed that hotels be near airports for cost containment. He wants parking to be free too. Food should be within walking distance and affordable in his opinion. \$150 room night ceiling was proposed by him. If we (instead of sponsor) have to pay for everything, break it out from hotel rate.



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Wayne addressed some of the concerns (which are valid) going forward.
 The following companies and/or individuals have indicated that they would like to sponsor/organize a meeting, Please find below the list of preliminary meeting locations:

Date	Location	Sponsor
Winter 2014	ICCNEXERGY San Diego, CA	Bansi Patel January 2014
Summer 2014	APC Rhode Island	Dan Lambert June 2014
Winter 2015	Nuclear Logistics & TVA? Corpus Christi, TX? or Enercon New Orleans, LA	Steve Clark & Archie Bell? January 2015 or David Franklin (can interchange either of these with Winter 2016)
Summer 2015	Alber Columbus, OH	Rick Tressler June 2015
Winter 2016	Quality Standby Services Atlanta, GA	Lesley Varga January 2016
Summer 2016	downtown Montreal or Quebec City (latter could be too \$\$\$)?	Yves LaVoie June 2016

Please keep in mind that locations are subject to change based on prevailing conditions at each sponsors 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 next meeting on Sunday January 5, 2014 in La Jolla. The following topics were selected by vote of the attendees.

Topic #1 – Charging Schemes – Bruce Fountain, Chair

Topic #2 – Long Runtimes for Standby Batteries for Disasters – Steve Clark, Chair

A break was taken at 9:39 am

The general meeting resumed at 10:09



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6. New Business

Recognition – Steve Clark recognized Steve McCluer and Curtis Ashton for their contributions to IEEE 1635 / ASHRAE 21.

Improving SDS For the User – Curtis Ashton presented work of the SDS Task Group on how to improve SDS sheets. The presentation will be posted on the IEEE PES SBC website. We (brought up by Steve McCluer and Rob Schmitt) also talked about how to control the electric shock hazard from putting water on battery fires (misting attachments on the hoses, string segmenting disconnects, etc.), and on the NFPA 704 health hazard rating of 3 (possibly reducing it). The SDS Group will take up these two new issues, as well as continue work on the 5 covered in the presentation. Manufacturers are encouraged to refer to the presentation in order to improve their SDSs as they transition from the MSDS. Mike Nispel is going to try to get us some hooks into the BCI Group that is working on the SDS transition. Legal liability in “softening” language was brought up, but good examples were provided of good SDS statements in existing battery manufacturer’s MSDSs to assuage the legal departments.

NFPA 70E Battery Hazards – Bill Cantor covered many of the things that he covered in his recent BattCon presentation about realistic physical, chemical, thermal, and electrical hazards from batteries. He especially covered a flowchart that we’ve proposed for 70E (but may not make it into the next edition) that we’d like SCC18 (the official IEEE liaison to NFPA standards) to push with the NFPA 70E committee. The 100 V limit was discussed, and it was noted that it would be nice to get the 125 VDC utility systems under the limit too, but the data is not there yet. Discussion ensued on whether short-circuit calculations required a PE or simply a qualified Engineer (the general consensus was for “qualified”, although there was disagreement). There was discussion on the proper process for getting proposals to NFPA (must go through SCC18). Discussion also ensued about posting short circuit current for cells (which is not the battery system short circuit current) on the SDS (the discussion moved more towards referencing separate website documents because SDS are too general for specific models). 3 proposals were made to issue the IEEE PES SBC positions on hazard from batteries to SCC18 in the next 2 weeks before the next NFPA 70E meeting. Proposal #1 to Oppose the change in NFPA 70E for the DC approach boundaries from 100 V down to 50 V: Vote was unanimous to oppose that change in NFPA 70E. Proposal #2 to Include the flowchart on battery hazards as an Annex to 70E: Vote was nearly unanimous with only 1 negative. Proposal #3 to Oppose the request to add a rule of thumb on battery cell short circuit current (the committee supports getting that data from the battery manufacturer since rules of thumb are inaccurate for certain battery types – especially for the new 946, then having a “qualified” Engineer calculate the system [not the cell] short circuit current for posting [the NEC requires posting this value]).

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



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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.

The General Membership meeting was suspended at 11:45 am until approximately 11:00 a.m. Thursday, June 13th.

Tuesday, June 11th

Working Group meetings continued.

Wednesday, June 12th

Working Group meetings continued.

Thursday, June 13th

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 13th:

Rick Tressler reconvened the general meeting at 11:16 a.m. He thanked Chris Searles, Ed Rogers, and Ed Rafter for hosting and organizing the meeting and additional activities.

Rick 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 San Diego 2014 will be forthcoming and is subject to change.

Working Group Chair reports & Sessions needed for the winter 2014 meeting:

Standard/PAR#	Status - End of This Meeting	Sessions Needed	Session Duration (Hours)
450	No PAR to be opened	0	0
484		1	4
485	N/A	0	0
535	No meetings needed next time – good progress this time	0	0



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Standard/PAR#	Status - End of This Meeting	Sessions Needed	Session Duration (Hours)
946	Work advanced. Many assignments given, and more to come. Last ballot comments will try to be addressed in this version.	2	6
1106	Progressed.	1	2
1115	Progressed. Needs to be different time than 946.	1	2
1184	Bansi asked members still interested to contact him	1	4
1187	Reviewed comments and will send out for recirc again.	0	0
1188	No action	1	4
1189	2 good productive meetings. Ditched present document and started over from scratch. Needs to be different time than 946.	2	8
1375	No action		
1491	New PAR will be opened. Going to change from a guide to recommended practice (doesn't mean that monitoring is recommended, but that it is recommended for users of battery monitoring systems.	1	4
1578	No action		
1635	Published – no action		
1657	No action	1	2
1660	No action		
1679.1	Made some progress. Possibly will do web conferences. Sequence sessions with 1679.2 if possible	1	4
1679.2	Good progress. Some items will move to 1679 parent document. Will change title and scope to limit it a little (PAR will be revised). Session request as early as possible in week.	1	4
Nuclear WG	Status given: VRLA presentation, extended duty cycles, Fukushima	1	4
1881	Progress.	1	4



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Standard/PAR#	Status - End of This Meeting	Sessions Needed	Session Duration (Hours)
SDS WG	White Paper being developed. Letters Going out to get buy-in and possible help.	1	4
Codes WG	No meeting here – all meetings by web		
PE5 WG	Worked on scope and PAR (IEEE staff working with NEMA). Will meet in-between at the new NE Battery Conf in October. Prefer a 4-hour session, but can live with a 2-hr session.	1	2



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Standard/PAR#	Status - End of This Meeting	Sessions Needed	Session Duration (Hours)
NEMA PE5	Art/Haissam writing PAR & need members (email Haissam). Art & Yves will contact North American charger mfgs. Art will talk to NEMA. PE5 only applies to non-nuke utility chargers (IEEE 650 for nukes)	1	2

Motion to adjourn the meeting was made by Dan Lambert. Motion seconded by Yves LaVoie.
Meeting adjourned by Rick Tressler at 11:34 a.m.