



IEEE

PES STATIONARY BATTERY COMMITTEE

PES Stationary Battery Committee Meeting Minutes
Monday, January 21, 2008; Richardson, TX

January 21, 2008

1. *Introductions*

Robert Fletcher called the meeting to order at 08:00.

There are 60 members of the committee and 39 members were in attendance. There were 55 total attendees.

The PES Stationary Battery Committee thanks Steve McClure for organizing the meeting.

Each attendee introduced themselves.

The minutes from the June 2007 meeting were approved unanimously.



 IEEE PES STATIONARY BATTERY COMMITTEE

2. *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	2002	The document is under revision. Two sessions are scheduled for this week.
484	Vented Lead Acid Installation	LaMarca	2002	There is one interpretation request for IEEE 484 which will be addressed at this meeting. IEEE 484 reaffirmation ballot was completed. There were three negative ballots which will be discussed this week. A PAR may be opened depending on the results of the negative ballot discussion.
485	Lead Acid Sizing	Fletcher	1997- R2003	The revision is ready to go to ballot. The ballot should take place in the next two or three months.
535	Nuclear Battery Qualification	R. Beavers	2006	Published. No further action at this time.
1106	NiCad Install, Maint, and Testing	McDowall	2005	No action
1115	NiCad Sizing	McDowall	2000 – R2005 – 1115a- 2007	Reaffirmed in 2005. The amendment has been approved (1115a). No further action at this time
1184	UPS Battery	Patel	2006	No action
1187	VRLA Installation	Jump	2002	PAR opened. Two meetings scheduled this week.
1188	VRLA Maint and Testing	Cantor	2005	There is a session this week to discuss the possibility of opening a PAR.
1189	VRLA Selection	Marrero	2007	Published. No further action at this time.
1375	Battery Protection	Epstein	1998 – R2003	Considering PAR or reaffirmation.
1491	Battery Monitoring	Cotton	2005	Two sessions scheduled this week.
1578	Spill Containment	Taylor	2007	Published. No further action at this time.



IEEE

PES STATIONARY BATTERY COMMITTEE

1625	Portable Computer Batteries	Layton	2004	A revised document has been balloted. The committee is currently resolving ballot negatives.
1635	Ventilation Document	Clark	Draft	Is in pre ballot. There are unresolved issues between IEEE and ASHRE which have held up balloting for nearly a year. The chair of 1635 is sending a letter to IEEE-SA requesting that the aforementioned issues be resolved within 60 days or the document will be dropped by the IEEE affiliated working group and full control will be given to ASHRE.
1657	Technician Qualification	Ashton	Draft	A working group session is scheduled this week. The document is expected to be balloted after this meeting or next.
1660	Battery Cycling	Corey	Draft	A ballot concluded last week. Resolving comments and negatives this meeting.
1679	Emerging Battery Technologies	McDowell	Draft	Balloting expected this year on the parent document.
1725	Cell Phone Battery	Howard	2006	Attempting international adoption.
1825	Digital Camera and Camcorder Batteries	Baronas	Draft	There are internal discussions in the working group concerning withdrawing the PAR and rolling the information into one of the other documents.

Samuel Norman recognized the IEEE senior members on the committee. Mr. Norman is coordinating an effort to get more PES-SB members elevated to the senior grade. The requirements for the senior grade are ten years of professional experience and at least five years of significant experience.

Membership requirements were discussed. To be a member/participate of a working group, no IEEE or SA membership is required. PES-SB members must be IEEE and PES members. To vote on standards, you must be an SA member. Working group chairs must be members of PES-SB

3. *Interpretations report.*

There is an interpretation request for IEEE 484. The IEEE 484 working group will be addressing



IEEE PES STATIONARY BATTERY COMMITTEE

the interpretation request during their session this week.

4. *Coordination*

PES (Bob Fletcher). There will be two super sessions at the PES yearly meeting this year. Nuclear power and emerging technologies will be the subjects for the super sessions. There is no PES-SB participation planned.

ATIS (Alliance for Telecommunication Industry Solutions) (Curtis Ashton) There has been a problem with the larger sizes of class I, flexible cables (350, 373, 500, 535, 750, 777 MCM). Manufacturers have been squeezing down the size of these cables due to escalating copper costs and the standard lugs are not fitting properly. ASTM standards allow the manufacturers to reduce the size and still stay in compliance with the standard. ATIS is working to tighten up the standard. ATIS is also creating an energy efficiency standard for data center and telco equipment.

Telcordia - Jim McDowall reported that there is a new standard, GR-3150 (Generic Requirements for Secondary Non-Aqueous Lithium Batteries). The document was issued in May 2007.

SCC-21 –Peter McNutt SCC21 WG Report

- Standards Coordinating Committee on Fuel Cells, Photovoltaics, Dispersed Generation, and Energy Storage Approximately 10-15 members attend WG meetings.
- Renewed Documents
 - IEEE 937-2007 Recommended Practice for the Sizing of Lead-Acid Batteries for Photovoltaic (PV) Applications: 141 comments from 61 balloters
 - IEEE 1013-2000 Recommended Practice for the Installation and Maintenance of Lead-Acid Batteries in Photovoltaic (PV) Applications: 59 comments from 62 balloters
- New Documents
 - IEEE 1561-2007 Guide for Optimizing the Performance and Life of Lead-Acid Batteries in Remote Hybrid Power Systems: 89 comments from 50 balloters
 - IEEE 1562-2007 Guide for Array and Battery Sizing in Stand-Alone Photovoltaic (PV) Systems: 59 comments from 58 balloters
 - IEEE 1661-2007 Guide for Test and Evaluation of Lead-Acid Batteries Used in Photovoltaic (PV) Hybrid Power Systems: 101 comments from 57 balloters
- Documents Up For Renewal
 - IEEE 1361-2003 Guide for Selection, Charging, Test and Evaluation of Lead-Acid Batteries Used in Stand-Alone Photovoltaic (PV) Systems
 - IEEE 1526-2003 Recommended Practice For Testing the Performance of Stand Alone Photovoltaic Systems



IEEE PES STATIONARY BATTERY COMMITTEE

Battcon (Rick Tressler)

Battcon this year will occur on May 1-3, Marco Island Florida. On Sunday afternoon there will be several technical sessions. Steve McClure is looking for a panel member on codes. Curtis is looking for panel member on his 'green' (saving energy, efficiency, etc.) panel.

NEMA (Eric Schweitzer) – NEMA is gauging interest in developing standards for lithium batteries.

Codes Working Group (Steve McClure)

- o The Codes & Standards Working Group met several times via web meeting to review and discuss possible proposals for changes to:
 - NFPA-70 (NEC), Article 480 Storage batteries (Proposal deadline Oct 2008)
 - NFPA-70E, Submitted comments on 45 proposals in August 2007; coordinated w/ NEMA. Proposals were submitted as "individual" comments, not IEEE formally sanctioned.
- o Other codes on the group's radar are:
 - NFPA-1, Uniform Fire Code (UFC)
 - NFPA 111, Emergency & Standby Power Systems

MSDS TASK FORCE (Steve McClure)

No action to report

GLOSSARY WORKING GROUP (Steve McClure)

The group met 26 different times over the last 2.5 years. Yesterday reached 'Z'. The result of the working group will be an internal document that will be shared with members of PES-SB. The document is in final review and the plan is to have the document available for PES-SB members at the next meeting.

Nuclear Task Force WG – Jeff L. is new chair. Meeting this week. What is going on with new nucs. Several utilities planning nucs, will discuss. 72 hour cycles may be required in new nucs. EPRI is conducting teleconference meetings on various subjects relating to new nucs.

The following new PES SB members were announced:

Hollen Crim

Len Casella

Al Jensen



IEEE

PES STATIONARY BATTERY COMMITTEE

5. *Technical Activities*

Panel Sessions - A discussion was held on possible panel sessions for the next meeting. After voting from a broad selection of topics, the following panel session topics were chosen:

Electrical Noise - Ripple current – Zbig Noworolski - Chair

Design software (dc systems) - coordination- John Coyle - Chair

6. *Site Selection Committee*

Wayne Johnson

Summer 2008 – Chicago, IL – Kurt Uhlir June 8-12, Oakbrook or Yorktown

Winter 2009 – Fort Lauderdale, FL - Dan McMenamin

Summer 2009 - Sonoma Valley / county in California (north of San Francisco)

Winter 2010 - San Diego, CA – Bansil Patel

See the Web Site for more information & other possible future locations.

7. *New Business*

Jim McDowall recommended Jay Chamberlain for Honorary status – Approved unanimously

O&P manual – The O&P manual was collapsed to three pages by Bob Fletcher. The committee approved the changes unanimously.

Jim McDowall delivered a presentation from H. Giess, who is the chair of the IEC TC-21 subcommittee. They are looking for coordination with PES-SB. For more information:

<http://www.iec.ch/cgi-bin/procgi.pl/www/iecwww.p?wwwlang=e&wwwprog=dirdet.p&progdb=db1&committee=TC&number=21>

At this time, the meeting was recessed.

Working groups were convened for standards processing. The working groups meeting are P450, P485, P1187, P1189, P1491, P1635/200, P1657, P1679, the Nuclear Power Working Group, and the Battery Definitions Working Group.



IEEE PES STATIONARY BATTERY COMMITTEE

Tuesday, January 22nd

Working Group meetings continued.

Wednesday, January 23rd

Working Group meetings continued.

Thursday, January 24th

Working Group meetings continued.

The full committee was re-opened to discuss progress of the working groups and sub-committees.

Committee and working group progress and action items are listed in their respective minutes.

Details of the next meeting were provided:

Doubletree Chicago-Oak Brook

1909 Spring Road

Oak Brook, IL 60523

Direct 630-472-6000

At this time the meeting was adjourned.

Respectfully submitted,

William Cantor



IEEE

PES STATIONARY BATTERY COMMITTEE

Instructions for the WG Chair

- **At Each Meeting, the Working Group Chair shall:**
- **Show slides #1 and #2 of this presentation**
- **Advise the WG membership that:**
 - The IEEE's patent policy is consistent with the ANSI patent policy and is described in Clause 6 of the *IEEE-SA Standards Board Bylaws*;
 - Early disclosure of patents which may be essential for the use of standards under development is encouraged;
 - Disclosures made of such patents may not be exhaustive of all patents that may be essential for the use of standards under development, and that neither the IEEE, the WG, nor the WG Chairman ensure the accuracy or completeness of any disclosure or whether any disclosure is of a patent that, in fact, may be essential for the use of standards under development.
 - Instruct the WG Secretary to record in the minutes of the relevant WG meeting:
 - That the foregoing advice was provided and the two slides were shown;
 - That an opportunity was provided for WG members to identify or disclose patents that the WG member believes may be essential for the use of that standard;
 - Any responses that were given, specifically the patents and patent applications that were identified (if any) and by whom.



IEEE

PES STATIONARY BATTERY COMMITTEE

Slide 1

IEEE-SA Standards Board Bylaws on Patents in Standards

6. Patents

IEEE standards may include the known use of essential patents and patent applications provided the IEEE receives assurance from the patent holder or applicant with respect to patents whose infringement is, or in the case of patent applications, potential future infringement the applicant asserts will be, unavoidable in a compliant implementation of either mandatory or optional portions of the standard [essential patents]. This assurance shall be provided without coercion and prior to approval of the standard (or reaffirmation when a patent or patent application becomes known after initial approval of the standard). This assurance shall be a letter that is in the form of either:

a) A general disclaimer to the effect that the patentee will not enforce any of its present or future patent(s) whose use would be required to implement either mandatory or optional portions of the proposed IEEE standard against any person or entity complying with the standard; or

b) A statement that a license for such implementation will be made available without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination.

This assurance shall apply, at a minimum, from the date of the standard's approval to the date of the standard's withdrawal and is irrevocable during that period.

Slide 2

Inappropriate Topics for IEEE WG Meetings

- Don't discuss the validity/essentiality of patents/patent claims
- Don't discuss the cost of specific patent use
- Don't discuss licensing terms or conditions
- Don't discuss product pricing, territorial restrictions, or market share
- Don't discuss ongoing litigation or threatened litigation
- Don't be silent if inappropriate topics are discussed... do formally object.

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org or visit <http://standards.ieee.org/board/pat/index.html>.

This slide set is available at <http://standards.ieee.org/board/pat/pat-slideset.ppt>