

Minutes of the IEEE SURGE PROTECTIVE DEVICES COMMITTEE

October 14, 1998
The Westin Cincinnati, Cincinnati Ohio

The meeting was called to order at 4:00 PM by Chairman Gerald Lee

1.0 Introductions: All in attendance were self-introduced. In attendance were:

Ed Taylor	Consultant	M		Arnie Vitols	ABB	M
Tom Rozek	Detroit Edison	G		Bengt Johnnerfelt	ABB	M
Jeff Williams	Duke Energy	M		Eva Tarasiewicz	Ontario Hydro	M
Jim Wilson	Ameren Services	M		Hans Steinhoff	Joslyn Electronics	M
H. Wolfgang Ortel	Joslyn Electronics	M		Carl E Lindquist	San-O Industrial Corp.	G
Joe Ink	Oneac Corp	G		Gary Goedde	Cooper Power Systems	M
Tom Hartman	Cooper Power Systems	G		Chris Constance	Northern Technologies	G
Volker Hinrichson	Siemens	G		Jon Woodworth	Cooper Power Systems	Secretary
Ken Nolan	Alabama Power Co.	M		Tom Compton	Duke Power Co.	M
Franois Martzloff	NIST	M		Marcel Fortin	Hydro Quebec Labs	G
Pat Howard	Lucent Technologies	G		Paul Schaffer	Gulf Power	G
Fred Basso	Basso Associates	G		Tom Conrad	LEA International	G
Joe Osterhout	Consultant	M		Reigh Walling	GE Power Systems	M
Gerald Lee	BPA	Chair		Dennis Lenk	Ohio Brass Co	VChair
Don Worden	MGC Electronics, Inc	M		Willy Kapp	Joslyn Electronics Sys.	M
M= Member	G=Guest					

2.0 Acceptance of Charlotte Meeting Minutes: The minutes were accepted as written.

3.0 Subcommittee Reports

3.1 A & S Subcommittee - G. Lee

- SPDC Membership and appointments: Jim Case, Gary Goedde, and Wolfgang Ortel were appointed members of the SPDC.
- Fellow Nominations: It was proposed by John Posey that the most recently appointed IEEE Fellow be the Chair of the Fellow Nominating Committee. All agreed. Joe Osterhout is the most recent appointment and was asked to head this committee. He agreed.
- Tom Hartman was appointed the SPDC Web site supervisor and J Woodworth and Tom Hartman will submit Web page protocol at the next meeting for approval by the A&S.
- Tim Royster, Warren Boxleitner, Peter Noehrer, Sal Mendoza, Gordon Black, and Kurt Wattlelet have all resigned from SPDC and all subcommittees.
- Subcommittee 3.5 was dissolved and responsibilities will be merged into the new High Voltage Surge Protective Devices subcommittee chaired by Jeff Kester.

3.1.1 Standards Coordinator -John Posey

Ten coordination requests from other PES Committees have been received since the last report. Coordination was requested on P-833, Recommended Practice for the Protection of Electric Equipment in Nuclear Power Generating Stations from Water Hazards.

C62.22-1997 was published July 17, 1998 and is available at \$62.00/\$50.00. Another new publication of interest is P693, *Recommended Practices for Seismic Design of Substations* at \$67.00/\$54.00. We provided coordination input for the section on surge arresters.

The attached report provides the status of our projects. In addition, the completion date for PC62.43 has been extended until March, 1999 and a balloting group formed for this project.

The previous report identified the following projects requiring attention: PC62.11, PC62.35, PC62.36, PC62.42, PC62.43, PC62.62, PC62.92 pt2 and PC62.92 pt3. Deadlines are approaching on these projects. Failure to complete a revision or new project by four years from the PAR approval will cause the PAR to be withdrawn. Also, failure to revise or reaffirm a standard with five years from the publication date will cause the standard to be administratively withdrawn.

There are now 2214 individual and seven corporate members of IEEE-SA. Individual dues for 1999 remain at \$10.00 and will be listed on your next annual IEEE membership dues statement.

Some standard drafts fail to gain Standards Board approval due to need for extensive editing. Please send your initial and all subsequent drafts to the IEEE editor to avoid this problem. This will also expedite publication of your standard after Standards Board approval.

IEEE can provide a protected site for Working Groups to post and edit drafts. Of about 800 authorized projects, project sponsors for 360 are using the web instead of printing hard copies. The Standards Department is moving toward electronic submission of the draft for editing and Standards Board approval followed by electronic publication. Working Groups are encouraged to discontinue use of hard copies and become more time and cost efficient by using either floppy disc or posting their drafts on the website. Please poll Working Group members and establish a date to convert to electronic drafts (probably using Word 6).

The Standards Board has removed the requirement that 75% of ballots must be returned. Those returned will be counted to determine approval. IEEE Balloting Services is preparing to offer electronic balloting on standards by year end.

The blue PAR form dated 1/96 will not be accepted after November 1, 1998. Instead, the only acceptable PAR forms are those that can be obtained from the web. After February 5, 1999 the submitted PAR form cannot contain any handwritten text, must be either typewritten, printed and then pasted on the form, or submitted electronically using the downloaded form from the web. The purpose is to support electronic approval of the PAR by NesCom without waiting for a quarterly meeting. RevCom will also begin to review standards electronically reducing the required 20 hard copies needed for approval to four copies (two to be sent to ANSI). These efforts will reduce the time from submission to publication.

Status of Active Standards Projects is posted on Web site
List of SPD Liaisons is posted on the Web site

3.1.2 Awards -Richard Odenberg
No Report

3.2 Bibliography -Rao Thallam
No Report

3.3 High Voltage Surge Protective Devices – Jeff Kester

The meeting was attended by 10 members and 4 guests:

Members: T. Compton, S. Brewer, S. Hensley, G. Lee, J. Woodworth, R. Walling, T. Rozek, J. Williams, J. Wilson, E. Taylor, E. Tarasiewicz, D. Lenk, J. Osterhout, J. DuPont, K. Nolan, A. Vitols, T. Hartman, B. Johnnerfelt

Guests: Volker Hinrichsen, Marcel Fortin, Paul Schaffer

Meeting called to order Wednesday 10-14-98 at 2:15

18 members & 3 guests

Spring 1998 meeting minutes approved

Working group meetings were held for

3.3.11 continuous revision of C62.11

Tom Hartman

3.3.13 High Voltage Characterization & testing

Ken Nolan

3.4.8 Protection & insulation coord. of transformers

Eva Tarasiewicz

3.4.13 Surge protection of Generating plants (acting chair)

Steve Brewer

3.4.14 High Voltage Application Guide

Ray Walling

Working group 3.4.9 Surge Voltage protective equipment on Ac rotating machines (C62.21) Dave Jackson, did not meet

Key Points from review of working group minutes include:

3.3.11

- Standard PC62.11-1997/d4 is out for ballot it's second time and is expected to be accepted.
- Aspects of design test section 8 of the new standard draft were reviewed for necessity, validity, and potential assimilation of similar tests from IEC 99.4. This will be a continuing effort.

3.3.13

- The group reviewed and discussed the progress of TF1 - TF6
- Group is reviewing and considering tests from IEC 99.4
- A great deal of discussion centered on proposals to develop standardized methods of establishing energy capabilities of arresters

3.4.8

- This group has been working with the transformer subcommittee and has come to agreement on a insulation withstand curve for oil filled transformers.
- The WG will submit a PAR to create a supplemental update for C62.22 including this information. They expect completion by spring 2000

3.4.13

- The wg meet and decided to disband. The OPD/ASPD subcommittee will submit a par to reaffirm this document prior to its expiration 9/2002

3.4.14

- The wg reviewed the existing C62.22 document outline and proposed format revisions for next draft.
- Task forces were eliminated/combined as necessary to support future agenda.
- Discussion focused on expanding energy consideration sections and inclusion of Transmission Line arresters.
- The group decided to work at establishing improved liaison ties with T&D wg's involved with modeling efforts

3.4.16

- The wg reviewed a utility survey of separation effects. They will be summarizing results in minutes, as well as providing feedback to participating utilities.

There were several general discussions on merits in the changing methods of operation being mandated within IEEE as pertaining to electronic communication and speed of standards revisions.

D. Lenk stressed the importance of timely disposition of paper review assignments.

Approved subcommittee and working group membership requests:

Volker Hinrichson - Siemens	3.3/3.4, 3.3.11, 3.3.13, 3.4.14
Paul Schaffer - Gulf Power Co	3.3/3.4, 3.3.11, 3.3.13
Devin VanZandt - GE	3.3.11
Lawrence Vogt - FP&L	3.3.11

Meeting Time Requirments:

Tom Hartman	3.3.11	4 Hours
Ken Nolan	3.3.13	4 Hours
Eva Tarasiewicz	3.4.8	2 Hours
Dave Jackson	3.4.9	2 Hours
Reigh Walling	3.4.14	4 Hours
Jim Wilson	3.4.16	2 Hours

Adjournment: The meeting adjourned at 3:16 pm EDT

**3.6 Low Voltage Surge Protective Devices -Don Worden
IEEE-SPD 3.6 Sub-Committee Meeting**

Meeting held on Wednesday, October 14, 1998 at the WESTIN Hotel in Cincinnati, Ohio

Presiding Officer and Secretary

Chairman:	Don Worden
Acting Secretary:	Frank Waterer

Attendees

Fred Basso	Basso Associates
Tom Conrad	LEA International
Chris Constance	Northern Technologies
Bill Curry	Raychem Corporation
Bob Davidson	UL
Joe Enk	ONEAC Corporation
Gary Goedde	Cooper Power Systems
Pat Howard	LUCENT Technologies
Phil Jones	ERICO
Willy Kapp	Joslyn Electronic Systems
Carl Lindquist	San-O Industrial Corporation
Francois Martzloff	NIST
Mick Maytum	Power Innovations, Ltd.
H.W. Oertel	Joslyn Electronic Systems
Hans Steinhoff	Joslyn Electronic Systems
Dan Turner	Siecor
Frank Waterer	Square D Company
Don Worden	MCG Electronics

Call to Order, Chair's Remarks

Frank Waterer was introduced as new secretary of SPD 3.6 Sub-Committee to replace Hans Steinhoff.

Approval of Minutes of Previous Meeting:

Motion to accept the minutes of the last meeting in May 1998 in Charlotte, N.C. Motion was seconded and approved by the attendees.

Technical Topics

Reports of Related Standards Activities:

Chairman reminded the committee that PARs have a life of four (4) years and Standards have a life of five (5) years.

Reports of related standards activities discussed IEC activities presently occurring in Houston, Texas. Francois Martzloff reported that Richard Odenburg will report the activities of TC81 at a later date. Francois Martzloff commented that several working groups were awaiting the report by Richard Odenburg with comments from Joe Koepfinger.

Old Business:

Chairman commissioned all working group chairmen to check roster of the membership of their respective members

New Business:

Chairman announced to attendees that Bob Davidson has informed the chairman that he will not be able to continue working as chairman of WG 3.6.3 due to current professional demands. Chairman of 3.6 requested that an existing Working Group Chairmen consider chairing WG3.6.3 to work on a test specification and application guide for all SPDs. Bob will complete existing projects but not continue after current projects are completed.

Chairman requested time requirements at the next SPD WG Meeting in May 1999 from each WG Chairman.

Chairman requested that each working group have a vice-chairman and or secretary. The purpose of this policy will be for the working groups to be able to continue in the event that a working group chairman is not able to attend the activities of the working group or can not continue in required duties.

SPD 3.6 minutes will be distributed via E-MAIL if the working group chairmen have an E-MAIL address.. If a working group chairman does not have an E-MAIL address then the minutes will be sent via FAX.

Chairman announced that IEEE requested the E-MAIL addressed of all SPD Working Group Chairs. There was much discussion on this topic.

Working Group Reports

WG 3.6.1

- No action in 3.6.1.
- Both documents covered by this Working Group were reaffirmed with no negative votes.
- C62.31 was reaffirmed on March 19, 1998
- C62.32 was reaffirmed on December 9, 1997
- Comments received from Working Group members will be considered during the next revision process.
- No meeting time, reformation of working group members are needed for the Spring meeting.

WG 3.6.2

- Richard Odengurg did not attend. Members did not meet. Chairman read report from Richard Odenburg to the attendees.
- PAR has been submitted for Application Guide for the Thyristor Diode SPD. The task force is in the final stages of completion of the application guide. This should occur before the end of 1998. Working Group will ballot. When the PAR is approved and the documents is agrees to by the Working Group members, the chair will ask the Standard Coordinator for a balloting committee.

- PAR is being prepared and submitted to Standards Coordinator for revision of the C62.35.
- Next meeting will be in Spring 1999.

WG 3.6.3

- The ballot on re-affirming C62.42-1992 resulted in two negative votes which will be resolved by editorial revisions. Comments on C62.42-199x will be addressed by appropriate changes to draft 8.
- Carl Lindquist volunteered to review the reference lists to update any changes involving issue/release dates.
- Mick Maytum volunteered to review IES documents for the latest stroke rise time information and send this to the chairman for inclusion in the Electrical Environment section.
- Except for balloting draft 8 and resolving any negative comments, the activities of the working group are completed. The members and interested parties will be advised whether or not a meeting will be held in the Spring.

WC 3.6.4

- Discussed Draft 1 of the “Trilogy” submitted by Francois Martzloff.
- Wants eight (8) hours for the next meeting.
- Francois Martzloff offered special thanks to all contributors for the development of the first draft.
- Francois Martzloff made request of 3.6 Chairman to determine if “1000 VAC or less” is required to be included in the title of each document in the Trilogy. Chairman to check with John Posey.
- Chairman requested proposed title description from Francois Martzloff in advance to take to John Posey.

WG 3.6.6

- Matt Wakeham did not attend do to impending surgery.
- Doug Dorr volunteered to act as secretary for the working group. Doug functioned as acting chairman in Matt Wakeham’s absence.
- Frank Waterer to head task force of six working group members and interested parties to complete PC32.72
- IEC 61643-2 did not pass. New ballot at end of next year. Concerns were voiced that the IEC document was not user friendly and not structured for North American Power Distribution Systems.
- Frank Waterer provided summary of action plan of the task force.
- Four (4) hours requested during the next meeting.

WG 3.6.7

- Met in two sessions on October 13, 1998 to work on C62.36.
- Working Group continued to complete revisions to C62.36. Submitted material was reviewed and member comments were addressed.
- Will require six (6) hours during the next meeting.

WG 3.6.8

- Warren Boxleitner has left SPD.
- No activity occurring in this working group at present.
- Chairman questioned if standards are still necessary in the electrostatic discharge arena.

WG 3.6.9

- Lots of handouts. Lots of homework.
- Much discussion within working group on the short circuit current withstand rating of devices.
- Will address on North American Standards with only reference to IEC in the annex

- Francois Martzloff commented on the independent conclusion of members that the IEC Standard not be accepted as part of the North American Standard but instead wants IEC Standards referenced in trilogy.
- Requested four (4) hours during the next meeting.
- Old business included chairman requesting working group members to be members of PES & SA.

4.0 Special Activities -Dennis Lenk

The SPDC A&S Subcommittee sponsored a well attended Monday luncheon meeting, hosted by Jon Woodworth and assisted by John Posey. This session was targeted to Subcommittee and working group chairmen with the goal of "How to write a standard and get it done in your lifetime". Each participant of the session received a copy of the IEEE Standards Companion. A follow-up Special Session is tentatively scheduled for the Spring 1999 SPDC meeting in St Petersburg, Fl. This meeting will focus on WEB access and electronic interfacing with the Web.

At the Fall 1998 SPDC meeting luncheon, Greg Wagoner and Wally Creer, from Magnetek, made a presentation on the lightning and switching surge requirements of distributed generation. Their presentation was entitled "Application of Power Electronics in Distributed Generation and Power Quality Products".

For the Spring 1999 luncheon, we are looking at contacting Dr. Martin Uman from the University of Florida in Gainesville to make a presentation on lightning. Alternately, because of the current high interest in defining energy capability of MOVs, it was suggested that Dr. Bartkowiak or Mike Comber be requested to present their recent high interest paper "Failure Modes and Energy Capability of ZnO Varistors" to the Wednesday luncheon attendees.

For membership information, the SPDC has been requested by the IEEE PES to sponsor special paper or panel sessions on current topics of interest. These special sessions would normally occur at the PES Winter or Summer Power Meetings. Proceedings from these special conference sessions would be printed in Conference Proceedings which will be available at the conference. To implement this, members are asked to input suggested topics of interest to Gerald Lee or Dennis Lenk.

The SPDC is planning to co-host a line arrester panel session at the Spring 1999 T&D Show in New Orleans. This program will be similar to the well-attended line arrester session held at the 1998 WPM in Tampa.

5.0 IEC Activities -J.L. Koepfinger No Report

6.0 ASC C62 Activities -J.L. Koepfinger No Report

7.0 Liaison Reports

Capacitor Subcommittee of T&D Committee Cliff Erven

The capacitor subcommittee and working groups normally meet twice each year, at the Winter and Summer Meetings of the IEEE Power Engineering Society. Although I do not normally attend their meetings, I do obtain regular mailings of minutes and participate as a corresponding member in some of the working group activities, relating to both shunt and series capacitors. I was able to attend the IEEE Summer Meeting in San Diego so this report is based on my observations from meetings attended, and any further correspondence from working group chairs.

Capacitor Subcommittee Web Page

Information on the subcommittee and working groups, including working group chairs, can now be accessed on the Capacitor Subcommittee Web page, either from the Power Engineering Society home page, or directly at <http://www.electrotek.com/ieee/capsub/capsub.htm>

Series Capacitor Working Group

Chair: Stan Miske, General Electric Company
Tel: 518-385-5447 Fax 518-385-5703

IEEE Std 824 -1994 - IEEE Standard for Series Capacitors in Power Systems

The main topic for discussion was Draft 1 of IEEE 824 (revision). Insulation levels for platform-to-ground Insulators based on other International Standards are being incorporated in the revision. This document is of interest to SPD because of the application of metal oxide surge arresters to protect the series capacitors from overvoltages during fault conditions. A new Thyristor Controlled Series Capacitor Working Group has been formed.

Shunt Capacitor Working Group

Chair: Ignacio Ares, Florida Power & Light
Tel: 407-845-4843 Fax: 407-845-4844 E-mail: ignacioares@email.fpl.com

IEEE Std 18-1992 - Standard for Shunt Power Capacitors

The Working Group is revising IEEE Std 18. Requirements for fuseless and internally fused capacitors is being considered. Draft 3a was discussed at the meeting following balloting within the working group. Draft 4 has been circulated for discussion.

Shunt Capacitor Application Guide Working Group

Chair: Antone Bonner, Cooper Power Systems
Tel: 414-835-1520 Fax: 414-835-1544 E-mail: abonner@cooperpower.com

IEEE Std 1036-1992 - IEEE Guide for Application of Shunt Power Capacitors

Draft 7 of revision discussed at meeting. The working group is currently adding guidelines for the application of fuseless and internally fused capacitor banks.

8.0 PES Technical Council Activities -G Lee

Recognition of Hal Gold

Chair Lambert made special recognition of the long and meritorious service of Hal Gold and extended to him the thanks of the Technical Council upon his retiring as Editor of the *Transactions*.

Technical Council officers starting 1999

The officers of the Technical Council starting January 1, 1999 are
Harry Jones - Chair and PES Vice President
Technical Activities
Jim Harlow - Vice Chair
Bruce Dietzman - Secretary

Report of San Diego meeting

Attendance at the meeting, to this point, is about 1500 registrants. It was noted that, de facto, we have gone to a five day meeting, there having been some 18 meetings of Working Groups and others on Sunday. This may require a more formal recognition in the future.

Winter 1999 - New York

The Winter Meeting for 1999 will be in New York starting January 31. Stan Horowitz is the meeting Technical Program Chair and all Technical Committee Program Chairs are designated. The program format for this meeting is well defined.

Summer 1999 - Edmonton

Bob Dent spoke on the effort of the Executive Committee to solicit more support for PES meetings, they having not attracted a lot of support from industry, manufacturers or utilities. The problem may be a matter of relevance - are we hitting the topics which are of interest to these people? Very possibly the needs could be best answered by experts assembled from several technical committees. Steve Lambert emphasized that this does not absolve the Technical Committees from also planning their own sessions, as they see fit. Example: The Transformers Committee may plan a session on synthetic steels, ie. a topic completely divorced from the specific topics indicated above.

Winter 2000 - Singapore

Don Russell reported that the Singapore meeting group is very excited about holding the meeting. The meeting will be very different from the traditional Power meetings. We will need to decide just what the Technical Council and the committees will be doing.

Standards Making

Steve Lambert explained that there is the perception that PES does not produce standards in a timely fashion, or that some topics which are the rightful domain of PES are not being covered at all. He observed that there is a significant difference in the level of corporate support for standards from, most notably, companies with a vested interest in computer standards. This has led to the creation of a Task Force chaired by Jim Harlow to explore these points and report. The Task Force met in San Diego. Some of the points considered include:

Do we agree with the perception? If yes, what can we do about it? If no, what can we offer in rebuttal?

- What about the apparent dwindling of support from the utilities? (It had been reported earlier that the input from the Advisory Council is that standards is not, of itself, a sufficient reason to send someone to a meeting.) How does this play against a committee which does not meet at Winter or Summer meetings and in which the major emphasis is standards? (Committees which account for perhaps 75% or more of the PES standards do not meet at WM and SM).
- The IEEE Standards Association and the \$10.00 fee.
- The PES imposed rule limiting WG meetings to 2 hours at the WNI and SM.
- Training.

A report is planned for the end of August.

Editorial Boards/*Transactions* Editors

Don Russell reported broad support for the new *Transactions* editors structure and electronic publishing. The three *Transactions* editors who will report to Bill Schwartz as Vice President of Technical Information Services, will be named very soon. Each technical committee must name a representative to serve on its Editorial Board (many have already done so) by the end of July. It is preferred that the technical committee representatives designated to the Editorial Board not be those who would do this as an additional responsibility as a committee officer and would cycle out of the position in, usually, two years. Rather, it is hoped to have someone who will be appointed for an indefinite term so as to provide continuity to the Boards.

Electronic Publishing

Mel Olken made a presentation regarding the plan to go to electronic publishing, starting January, 1999. This involves two different programs: 1) the paper review process and 2) electronic ready manuscript submissions. His PowerPoint presentation materials accompany these minutes as <elecpub.ppt>

A motion was made by Harry Jones: *Move the Technical Council endorse the electronic review and publication process as explained by Mel (Olken), and that (Chair Lambert) take to the Governing Board that sense of approval and support.* The motion passed by voice vote without dissension.

Standards Association Update

There have been reports that not all persons who should have received membership applications did receive them. With ballots now going out there is a box which asks for the balloter's SA membership number, or enclosed is an application for membership to the SA.

Chair Lambert distributed a listing of each balloting pool membership to each committee chair. He recommends that a future committee meeting notice include the application with a note that SA membership is required in order to vote on standards approvals.

SCC 36

SCC 36 has been formed. A major portion of this involves the Utility Communications Architecture (UCA) protocol. The request for PES representatives was answered by about eight volunteers.

Tom Garrity spoke that the PES Technical Council should take a serious look at what projects it wants to sponsor. The activities of SCC 36 are very much in the purview of the Technical Council. TC57 (Power Systems Control and Communications Standards) of IEC has very many PES members. We (perhaps a, group from Substations, PS Communications and PS Relaying) could take over this, drawing upon the work of IEC TC57. Jack Thorson, Chair of the U. S. committee to TC57 is reported to be very receptive to the idea of a co-sponsorship through a mechanism now in place in IEC for such coordinated activities. Tom strongly encourages us to be involved; otherwise the work will proceed in TC57 and IEEE will receive no recognition as having participated.

T&D Conference - Walt Ros

The planning is moving well for the T&D Conference, April 11-17, 1999 in New Orleans. Over 130,000 ft² of exhibition space has been sold; 340 Abstracts of papers have been received, 60% from outside of the U. S.

The Transformers Committee will meet in conjunction with the T&D Conference. Other technical committees which do not meet at the Winter or Summer meeting may consider doing so for the next meeting, September 2001, in Atlanta.

IEC Dues - Bob Dempsey

Members of IEC TAGs are receiving bills which must be paid for the person to participate. This has happened since ANSI, which was the national supporter for IEC representatives is no longer providing the fee. If we are going to push for participation in international standards we will need some means to support the funding required. Bob feels that this should come from IEEE and PES. It is estimated that about one-half of present IEC participants will terminate their association because of this.

Gerald Lee proposed that we should be pursuing a new IEEE recognition status within IEC; not going through our national committees. Don Russell stated he would look into this.

Registration Fees for Panel Participants - Bruce Dietzman

We have invited non-IEEE/PES members to participate in panels, for only one day, and then required that they pay the non-member meeting registration fee. This might be remedied by a "guest" status or a "daily" registration. Don Russell stated he would look into this.

Page Limits for Technical Papers - George Gross

Is it time to eliminate or relax the page limit criteria for *Transactions* papers? This in view of the fact that we're recently not attaining our page limit criteria and that we're moving to electronic publishing where *Transactions* will be mostly distributed in electronic format. It was explained that we are now back on target for page count and the costs of publication do not decrease, cost is still on a per page basis, even with electronic publishing. There will be no change made in the procedure at this time.

Tutorials

Chair Lambert stated the rules regarding tutorial sessions, which apparently have not been followed in some cases. Those tutorials for which there is a fee must be sponsored by the Education Committee, even though the particular technical committee prepares and presents it. Free, perhaps "mini-tutorials", are the purview of the technical committee.

PICA Conference

George Gross reported that the Power Industry Computer Applications Conference will next take place in Santa Clara, CA May 18-20,1999.

9.0 PES Technical Sessions -D Lenk

The Surge Protective Devices Committee sponsored a technical paper presentation session at the Summer PES meeting in San Diego. The following five papers were scheduled for presentation. Only two of the papers were presented.

- 1."Application of High Withstanding Zinc Oxide Elements to SF6 Gas Insulated Surge Arresters for 22 kV to 765 kV Power Systems" by Shirakawa, et al. (Presented)
- 2."Calculation of Lightning Current parameters" by Heidler, et al.
- 3."Watts Loss of Polymer Housed Surge Arresters in a Simulated Florida Environment" by Miller, et al.
- 4."A Comparison Between the DC Leakage Currents of Polymer Housed Metal Oxide Arresters in Very Humid Ambient Conditions and in Water Immersion Tests" by Lahti, et al. (Presented)
5. "A Simplified Model for Zinc Oxide Surge Arresters" by Pincetti et al.

A 6th paper entitled "Numerical Simulation of Gas Discharge Protectors-A Review" by Larsson et al. Was approved but not scheduled for presentation.

A paper session is scheduled for the 1999 WPM to be held in New York. Both Transactions and Conference Papers will be presented at this session.

Two Conference Papers have been submitted for presentation at the T&D Conference scheduled April 11-16, 1999, in New Orleans.

SPD members are reminded that there have been significant changes implemented by the PES Technical Council regarding the implementation of a Conference Paper status document, which can be presented at various PES Conferences. The conference papers for each conference will be preprinted and made available at each conference. In addition, all panel session presentations will also be included as part of this Conference proceeding. To make this work, all conference paper and panel session presentations need to be made available to PES so that this bound document can be preprinted. See Liaison Report 7.15 for further discussion.

10.0 Old Business

- a. **P1313.2 Ballot:** This document will be balloted in the next few months. G Lee agreed to get it circulated through the SPD.
- b. **Operations Manual:** Has been approved by PES. It will be updated to include term limits of subcommittee chairs as mandated by IEEE.

11.0 New Business

- a. **Paperless Minutes and Meeting Notices of SPDC** It was agreed that all future minutes of this meeting will be just posted on the WEB page and an Email notice of such. For this meeting a note will be sent by mail to those not having a registered email address with SPD. It was also agreed that the Spring Meeting notice would be a short note via email and regular mail to go to the WEB page for details.
- b. **PES TC** has created a program Chair, and appointed Gerald Lee to the position.
- c. **IEEE Delegation to ASC C62.** Tom Rosak has been appointed to this delegation.
- d. Francois Martzloff requested that he be excused as liaison of SC28 and in its place become the liaison to TC81. It was approved by the A&S.
- e. **Working Group Meeting Cancellations:** It was agreed by the A&S that cancellations of working group or subcommittee meetings are to be a last resort and that the groups vice-chair should proceed with the meeting. All WG chairs and Subcommittee chairs must submit the name of a vice chair at the next SPDC meeting.

12.0 SPDC Meeting Schedule -J Woodworth

May 10-13, 1999	St. Petersburg, Fl. Tradewinds	(est \$120 + 11% tax)
Sept 27-30, 1999	Costa Mesa, Ca. Westin South Coast Plaza	(est.\$130 + tax)
May 15-17, 2000	Charlotte, NC Executive Park Hilton	(est \$120 + 12% tax)
October 1-4, 2000	Cincinnati OH The Westin Cincinnati	

As part of the next SPDC Meeting Schedule, the secretary would also show when the associated meetings are scheduled. (ANSI, IEC-TAG, IEC WG, NEMA etc)

The SPDC meeting was adjourned at 5:55pm

Jonathan J Woodworth
Secretary, SPDC