

IEEE Standards Coordinating Committee 22 - Power Quality

Annual Report to the Standards Board

February 25, 2002

David B. Vannoy, Chair
Tom Key, Vice-Chair, International
Mark M. McGranaghan, Vice-Chair, Power Engineering Society
Mark Halpin, Vice-Chair, Industrial Applications Society
William A. Moncrief, Secretary

Committee Scope

The Committee is responsible for coordinating IEEE activities related to the quality of electric power as it affects equipment, users, utilities, power and communications systems. This scope also includes the development of guides, recommended practices, standards, common definition of terms and phenomena. The SCC will identify needed standards within the area of power quality, and locate sponsors within IEEE to undertake the development of such standards, including designation of appropriate Working Groups or Subcommittees to serve as the sponsor for a project.

The SCC will serve as liaison, as directed by the Standards Board, to any standards developing bodies of record who are preparing power quality standards, and is responsible for making certain that all interested standards developing bodies are aware of SCC22 activities and given the opportunity to participate.

(Approved February 15, 1990)

Membership

SCC22, working through its steering subcommittee, reviewed its membership for interest, participation, and activity. As a result of that effort, 25 members were re-affirmed, and one inactive member was dropped from the roll, and one new member was added for a total of 26. The existing slate of officers was reaffirmed in the January 2002 meeting. The present membership maintains the required balance and interest categories, while ensuring that SCC22 actions represent the desires of the entire body.

Membership List - Members and Officers

ID	Last	First	Company	E-Mail	SA	Category	Rep	Member#
1	Bergeron	Roger	Hydro-Quebec	bergeron@ireq.ca	Y		1159.1	476135
2	Burke	James	ABB	jim.j.burke@us.abb.com	Y		1250	5252408
3	Collins	Randy	Clemson Univ	randy.collins@ces.clemson.edu	Y	C	1159	2044055
4	Conrad	Larry	Cinergy Corp	l.conrad@ieee.org	Y		1453	6431027
5	Ehrlich	Russ	Enerwise Global Technologies	russ.ehrlich@enerwise.com	Y		1564	40261457
6	Gentile	Tom	US National Grid	thomas.gentile@us.ngrid.com	Y		519	6793269
7	Gunther	Erich	Electrotek Concepts	erich@electrotek.com	Y		1159.3	8466922
8	Halpin	Mark	Mississippi State Univ	halpin@ece.msstate.edu	Y	O	V Chair IAS	648899
9	Key	Thomas	EPRI-PEAC	t.key@ieee.org	Y	O	V Chair INTL	5964861
10	Khera	Prem	3M	ppkhera@mmm.com	Y			2127157
11	Koepfinger	Joseph	Joseph L Koepfinger, P.E.	joseph.l.koepfinger@msn.com	Y			3429602
12	Kreiss	David	Kreiss Johnson	dkreiss@kit.com	Y			1569938
13	Lowenstein	Michael	Harmonics Limited	mzl@harmonicslimited.com	Y			8548588
14	Martzloff	Francois	NIST	Martzloff@eeel.nist.gov	Y			3181526
15	McEachern	Alexander	PSL	Alex@PowerStandards.com	Y	C	1159.1	2435022
16	McGranaghan	Mark	Electrotek Concepts	markm@electrotek.com	Y	O	V Chair PES	7261639
17	Melhorn	Chris	EPRI-PEAC	c.melhorn@ieee.org	Y		1100	8902991
18	Moncrief	William	EPRI	bmoncrief@ieee.org	Y	O	Secretary	6949283
19	Morgan	Larry	Duke Power	rlmorgan@duke-energy.com	Y	C	1159.2	1081157
20	Peele	G. Scott	Carolina Power & Light	scott.peele@pgnmail.com	Y	C	1159.3	40163001
21	Ray	Larry	Square D Company	rayl@squared.com	Y	O	Past Chair	1452648
22	Sabin	Dan	Electrotek Concepts	dsabin@electrotek.com	Y		1409	3121373
23	Sheehan	Mike	Puget Sound Energy	msheeh@puget.com	Y		1564	6366587
24	Unruh	Timothy	CMS	t.d.unruh@ieee.org	Y	C	Terminology	8587255
25	Vannoy	David	Enerwise Global Technologies	dave.vannoy@enerwise.com	Y	O	Chair	1713288
26	Ward	Daniel	Virginia Power	d.ward@ieee.org	Y		1495	6308415

Categories: O-SCC22 Officer
C-SCC22 Working Group Convener

Activity Report

Objectives and Goals - 2002

1. Vigorously pursue the general objectives defined in the Scope.
2. Review Membership roster to ensure active participation of membership. Drop inactive members and add contributing parties to membership status.
3. With the T&D Committee, successfully ballot P519.1.
4. Coordinate successful ballot of P1159.3.
5. Coordinate the successful ballot of P1346.1 and .3.
6. Coordinate with the PES Technical Council and the T&D Committee on the revision of the T&D Committee Scope to include Power Quality.
7. Continue to actively pursue the IEC 77A category D liaison relationship.
8. Create Master Plan for Power Quality Standards Development.
9. Continue to sponsor the Power Quality Interest Group in conjunction with the three meetings of SCC22 .

2001 Performance

Objective	Status
Vigorously pursue the general objectives defined in the scope.	SCC22 Operating Guidelines were revised to bring into conformance with revisions to the Model Operating Procedures. SCC22 was added to the IEEE SA Balloting web site. A PAR sentry was appointed to review new PAR submittals for SCC22 coordination.
With the T&D Committee, form a ballot group for P519a and successfully ballot.	The SCC22 Balloting Pool was revised. An extension to the P519.1 par was approved.
Coordinate successful ballot of 1159.1, .2, and .3.	Std 1159 was reaffirmed. A new PAR was approved for 1159.1 combining the work previously included in 1159.1 and .2. 1159.1 and 1159.2 work is being incorporated with IEC61000-4-30. 1159.3 was sent to IEEE Standards for balloting in August 2001.
Complete standards on equipment compatibility for battery chargers, adjustable-speed drives, under Std 1346-1998.	Copyright clearances for these standards have been obtained. Documents were submitted to IEEE Standards for formatting and balloting.
Establish web site for Power Quality Terminology	Power Quality Terminology will be posted on the SCC22 web site.
Initiate action to establish liaisons with additional Working Groups, Societies and Organizations actively pursuing Power Quality Standards.	Ongoing discussions were held with the PES Governing Board and the PES Technical Council regarding the creation of a Power Quality Committee within PES. PES proposed to act as the Host Society for all Power Quality work within IEEE. This agreement included PES, IAS, PELS and IES. The final disposition of this proposal is still under discussion. See more detailed discussion below.

Proposal for PES to act as a Host Society for an IEEE Power Quality Committee

At the 2001 Winter meeting held in Columbus, Don Volzka, PES President, visited the SCC22 Steering Committee meeting to express his interest and encouragement in the Power Quality Standards development efforts.

Subsequent to the Columbus meeting, Don drafted a proposed agreement to designate PES as a Host Society for all Power Quality standards development within IEEE. The parties to this agreement were to be the following:

IEEE Standards Coordinating Committee 22
 IEEE Industry Applications Society
 IEEE Industrial Electronics Society
 IEEE Power Electronics Society
 IEEE Power Engineering Society

A Scope was developed for a newly created Power Quality Committee within the PES Technical Committee structure. SCC22 was asked to provide input and concurrence to the scope prior to its presentation for approval. A discussion regarding the details of this agreement was held at the PES Summer Meeting in Vancouver Canada. This discussion included the SCC22 officers and PES

personnel. After a number of iterations, with the approval of SCC22, and the presidents of the four IEEE Societies mentioned above, the following scope was presented to the PES Technical Committees for concurrence:

Power Engineering Society Power Quality Committee

SCOPE: Treatment of all matters in which the dominant factors are the terminology, definition, system requirements, measurement techniques and quantification of quality of power at all levels of the power system. Power quality is specifically understood to include, but may not be limited to, matters of voltage supply disturbances and voltage and current harmonics. Maintenance of liaison and collaboration as required with other committees of PES and societies and entities of IEEE. Conduct or coordinate symposia as appropriate related to such matters.*

** At the time of formation of the PES Power Quality Committee, the scopes of the IEEE Standards Coordinating Committee 22 plus various working entities within four IEEE Societies (Power Engineering, Industry Applications, Industrial Electronics and Power Electronics) duplicate matters in the Scope, above. Those active functions may choose to continue in their present organizational structure liaising with the PQ Committee, or may choose to move organizationally to the Power Quality committee. All new PQ related work will be the domain of this committee.*

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Discussion of this proposal took place at the 2002 PES Winter Meeting in New York. The outcome of this debate was a request that the PES T&D Committee and SCC22 work on a proposal to include Power Quality standards development in the Scope of the T&D Committee. It is anticipated that this work will be completed in time for discussion at the PES Annual Meeting in Chicago.

Expected to Ballot in 2002

P1159.3 Recommended Practice for the Transfer of Power Quality Data

P519.1 Application Guide to IEEE Std 519-1992

IEEE Staff Support Needs

- ❖ General advice and counsel on procedures and protocols.
- ❖ WWW postings, and electronic transfers of drafts, minutes, and meeting announcements.
- ❖ Timely administration of ballots; assistance with SA certification of potential ballot members.
- ❖ Liaison to attend meetings and participate in administrative matters.

Meeting Schedule

Conference	Date	Place	Attendance/SCC-22 Members
PES Winter Meeting	January 2001	Columbus	33 / 13
PES Summer Meeting	July 2001	Vancouver	25 / 14
IAS Fall Meeting	October 2001	Chicago	0 / 2
PES Winter Meeting	January 2002	New York	28 / 14
PES Summer Meeting	July 2002	Chicago	
IAS Fall Meeting	October 2000	Pittsburgh	