



**Power Engineering Society
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General Systems Subcommittee
HARMONICS WORKING GROUP**

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Probabilistic Aspects of Harmonics – Chair

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Harmonic Limits for Single-Phase Equipment Chair

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Summer IEEE-PES Meeting – 17 July 1998

San Diego, California

1. Chairman Tom Gentile called the meeting to order at 4:00 PM with more than 30 members and guests present.

2. **Introduction** - Tom reviewed the schedule for the week and circulated the mailing list. All members are requested to provide an e-mail address for future mailings. The reading of the minutes of the last meeting was dispensed with, adopted by unanimous vote.

3. Task forces sponsored by the Harmonics Working Group reported:

3.1 **519 A Task Force** – Mark McGranaghan reported for Task Force P519A. The draft document has received comments from interested parties, and those comments were incorporated. A new draft is on the website and will presented to the standards board for consideration in September. Members are advised to get recommended changes in by Aug 20.

Mark invited all present 519A members to join the new joint task force to revise standard 519.

3.2 **Standard 519** – Mark Halpin reported on the new joint task force updating standard 519. Alan Ludbrook submitted the amendment to the par, and the effort is now a joint task force of the IAS and PES.

Alan proposed that the committee hold virtual meetings, and has a small email list. He will add to that list. Alan also proposed changing the scope of the document to include specific equipment harmonic standards. Those present at the 519A meeting thought that was a bigger undertaking than previously planned.

Under the new scheme, Alan will be the chair of the meetings that take place via e-mail, and Mark will chair meetings at PES meetings. Mark will also chair meetings at IAS meetings in Alan's absence.

Mark suggested that the new STD 519 committees begin work right away.

Tom Gentile cautioned that the persons meeting by e-mail and the persons meeting in person need to work together.

Paulo Ribero and Mark Halpin discussed and explained that it was not the intention to have two different committees, rather, the membership and including those that cannot attend meetings in person can expand participation.

**IEEE
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**LV Active Harmonic
Filters Task Force
Chair**

Chuck Gougler
Fremont, CA.

3. **Harmonic Modeling & Simulation Task Force** – Dr. Paulo Ribero reported for Dr. Wilsun Xu. A tutorial is scheduled for Wednesday, and the group is soliciting papers or panel discussion members on: Characteristics of Modeling Sources, Network Equivalents, Validating Simulation Cases, Development of a Four Transformation Harmonic Test System, Modeling Linear Loads, and Multiple Harmonic Sources.

3.3 **Probabilistic Aspects of Harmonics** – Yahia Baghzouz reported that the committee is still looking for real system, practical data. The committee will proceed with the work based on the theoretical data and conclude their efforts this week.

3.4 **Task Force on Interharmonics** – Erich Gunther reported that the group had published the summary paper, which was their original goal. He suggested that a new task for the group would be to write a chapter for the new STD 519. Erich will send e-mails to Alan Ludbrook and Mark Halpin with suggestions.

3.5 **Harmonic Limits for Single-Phase Equipment** - Jim Howell reported that the planned panel discussion had been cancelled. The San Diego committee could not confirm time and dates for the speakers in time.

4. **Liaison Reports** Include: Alex Emanuel reported that ICHQP VIII will be held in Athens, Greece October 14-16, 1998. ICHQP VIII is sponsored by IEEE Power Engineering Society and co-sponsored by the IEEE Greece Section, IEEE Greek Power Chapter, National Technical University of Athens, and the Public Power Corporation of Greece. They received 290 papers, accepted 200. The 2000 conference will be in Orlando, with Alex Domijan as Chairman. ICHPQS X will be scheduled for Rio de Janeiro in 2002. The 2004 conference will be held in North America, and the committee would welcome host proposals.

Mark Halpin reported that the IAS Harmonics Working Group had a good turnout, and will present their tutorial at the IAS meeting in October.

Don Ruthman reported that the IAS Power Quality Working Group met and had good attendance. No color books or standards are in progress at this time.

Don reported for Brian Prokuda stated that the LV Filters WG and the HV Filters WG met, and each is working on a draft to be ready in January.

Gil Hensley reported that the next meeting of the P1433 committee will probably produce a paper, and that STD 1159 will be the defining document.

Mark McGranaghan reported that SCC22 Had discussed the new STD 519 committee and agreed to the addition of Mark Halpin as co-chair.

Erich Gunther reported that CIGRE/CIREN WG 3605 on voltage quality had some interest in IEEE's interharmonic work. Reports will be posted to the website.

IEEE Power Engineering Society	<p>5. Future Panel Sessions - Panel Sessions for the Summer Meeting in 1998 were postponed to the Winter meeting, 1999. The new reporting guidelines require that the information presented at panel sessions be formally captured, so a brief summary of the session and all of the speakers is required, along with the topic, title, and a list of speakers. This new requirement caught our organizers unaware. Sessions moved to Winter are:</p> <p>a. "Mitigation of Harmonic Equipment" - Tom Key</p> <p>b. "Large Scale Measurement Survey from other Countries" – Dan Sabin & E. Gunther</p> <p>Suggestions for additional topics were Active Filters and Standard 519 & Interharmonics. Tom Gentile reminded panel session organizers to start early.</p> <p>Chuck Gougler asked if there was an active filter task force. After presenting a convincing case, Chuck was appointed Chairman of the new Active Filter Task Force. Interested persons may contact Chuck at CGOUG@aol.com.</p>
	<p>6. Technical Presentations #1), Tom Key, Knoxville, TN "Technology of Low Voltage Harmonic Filters."</p> <p>#2) Erich Gunther, Knoxville, TN "Large Harmonic Monitoring Surveys Worldwide."</p>
	<p>7. Other Business – Tom Gentile adjourned the meeting at 5:50 PM. For additional information on any Working Group or Task Force projects, feel free to contact:</p>

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