IEEE P519A
Meeting 7/13/98
San Diego
Minutes

1. Introductions.

Approximately 40 attendees. Email contact information provided. List of current membership will be available on the web site.
http://grouper.ieee.org/groups/harmonic/p519a/

Members should send updated email contact information to Mark McGranaghan as this is the primary method of correspondence (as well as the web site).
markm@electrotek.com or m.mcgranaghan@ieee.org

2. Member Activities Review

3. International Standards Activities

Guidelines for harmonic levels on the power system and harmonic limits for individual customers and equipment continue to be very important international topics.

- IEC 1000-3-6 has been completed providing guidelines for assessing harmonic levels from customers connected to medium voltage and high voltage systems.
- EN 50160 specifies maximum harmonic levels for the power system.
- Argentina has developed harmonic limits for both the system and individual customers with mandatory monitoring of harmonic levels.
- Japanese guidelines for control of harmonics from consumers with a high voltage supply were completed in 1994.
- South Africa has used 1000-3-6 as a starting point for system harmonic limits. They have developed a standard that includes aspects of IEC Standards and IEEE 519 – NRS 048.

4. Related Standards Activities

- P1159 continues to work on monitoring guidelines, including monitoring of harmonic distortion levels.
- Alan Ludbrook has organized a committee to begin work on revising IEEE 519. Mark Halpin will be a co-chairman of this committee representing PES. Information can be obtained at the following web site:
  http://www.nas.net/~ludbrook/ieee519.html

- The Interharmonics Task Force developed a position paper related to interharmonics. This is a subject that may be worth including in the next revision of IEEE 519.
  http://www.pqnet.electrotek.com/pqnet/main/tech/intharm/intharm.htm
- There is an international task force working on guidelines for power quality monitoring. IEC 1000-4-7 provides the methodology for measuring harmonic distortion levels but the new task force will address practical implementation of the IEC 1000-4-7 guidelines for system harmonic monitoring.
- A task force of the Capacitor Subcommittee is developing guidelines for designing harmonic filters.
- Task Force on Single Phase Harmonic Limits had lively discussions on the application of IEC 1000-3-2 and harmonic limits specified in that standard.

5. Current Status

Draft 6 to be finished before the next meeting. Email notification will be provided and members should download the file and review this latest draft.

6. Balloting

We are developing a balloting committee that will be used to ballot the document after receiving comments from members of this Task Force. The balloting committee will represent at least the following groups:

P519A Task Force
Harmonics Working Group
Task Force on Single Phase Harmonic Limits
SCC 22 – Power Quality Standards Coordinating Committee
P1159 – Power Quality Monitoring
IAS Harmonics Working Group
IAS Power Quality Subcommittee
IAS Industrial Power Converter Committee
Filter Design Working Group/Capacitor Subcommittee
P1433 Power Quality Definitions

There was a comment that we should officially send a copy to other groups for review:

NEMA Lighting
ASHRAE
ITI (information technology)
EIA (electronics)
TIA (telecommunications)
ARI (American Refrigeration)

Contact information is needed for these groups.

7. Tutorial

Tutorial based on the "Guide for Applying Harmonic Limits on the Power System" is supported by the Working Group. Outline and description needs to be developed for submission to the Education Committee.

8. IEEE 519-1992

Allan Ludbrook has obtained a PAR for the revision of IEEE 519 under the sponsorship of the Industry Application Society/Industrial Power Converter Committee.

IEEE 519-1992 was developed with cosponsorship from the IAS (Static Power Converter Committee) and the PES (Harmonics Working Group). The revision will be developed in a similar manner.

Mark Halpin will be the co-chairman representing PES (Harmonics Working Group).

9. Next Meeting

We will have a meeting at the Winter Power Meeting to review the final document and to discuss implementation of the Tutorial.