

IEEE P1159.1

Meeting Minutes

Columbus, Ohio
Tuesday, January 30, 2001

The IEEE P1159.1 meeting convened at 1:52 PM on Tuesday, January 30, 2001 in conjunction with the IEEE P1159 Working Group meeting. Alex McEachern chaired the meeting.

Administrative Topics

Introductions were skipped, as they had been conducted during the P1159 Working Group Meeting. Dan Sabin volunteered to be the new secretary, replacing the previous secretary, Murray Slater. The chair reported a recent conversation he had with Don Volzka, President of IEEE PES, in which Volzka expressed a perceived worldwide need for a standard for power quality monitoring requirements.

Discussion of IEC 61000-4-30

The chair reported that he had distributed a draft of IEC 61000-4-30, *Testing and Measurement Techniques – Power Quality Methods*, to a limited number of task force members before the meeting. This was possible because of recently received permission to distribute the draft outside of its IEC working group. The draft can be e-mailed or postal mailed to P1159.1 task force members for review, but cannot be posted to a web site. He said that he would distribute the draft to all task force members as soon as possible after the meeting. The distribution of the draft is a follow-up of a previous meeting's decision to base our work on 61000-4-30.

The P1159.1 chair intended to use the task force meeting to review the status of the draft and to briefly review its contents. He pointed out that the current IEC 61000-4-30 does not provide all of the measurement collection requirements that will be needed by IEEE P1159.2. Although IEC 61000-4-30 provides methods for rms collection, it is not tuned to provide methods for collecting waveforms, which is the chief focus of IEEE P1159.2. The chair's view was that this shortcoming could be overcome if the P1159.1 task force adopted the IEC draft but augmented it with a section on waveform measurement collection. He thought that there was a good opportunity for the sections of the new P1159.1 that addressed waveform sampling to be submitted to the IEC working group authoring 61000-4-30 for inclusion in a future draft.

The task force then had a lengthy open discussion on the pros and cons of accepting the 61000-4-30 draft. One problem expressed was that some task force members felt uncomfortable in committing to accept the draft without first reviewing the draft at length.

In addition, the chair of the IEEE P1159.2 Task Force chair, Larry Morgan, who was present at the meeting, was extremely concerned with the proposed approach of adopting 61000-4-30. His concern was that the emphasis on rms voltage characterization would further its use as the predominant industry-wide characterization method of voltage sags. In addition, the P1159.2 chair felt that the IEC draft presented methods of characterization of voltage sags that would

conflict with the methods presented in P1159.2 and were out of the scope of the project authorization request (PAR) for P1159.1. Finally, he was not pleased with the fact that the present IEC draft did not discuss waveform sampling. Waveform characterization techniques (e.g., missing voltage, points of initiation and recovery, dc rectifier bus voltage, etc.) are the methods presented in the current draft of IEEE P1159.2.

Some task force members were also concerned that if the P1159.1 task force committed to the approach of adopting 61000-4-30, the PAR for the group would need to be revised and resubmitted.

Action Items

1. The chair will distribute IEC 61000-4-30 to members immediately after the meeting.
2. The chair will form a review group via email to identify the conflicts of IEC 61000-4-30 with the P1159.1 PAR and with the characterization of P1159.2. Volunteers for reviewing this document were Jeff Yeo, Greg Olson, Rich Bingham, Math Bollen, and Roger Bergeron.
3. The chair will build a list of the proposed changes and additions to 61000-4-30 that would be necessary to complete the characterization tasks of IEEE P1159.2. This action item was deferred until Action Item 2 is completed.

The P1159.1 meeting was adjourned at 2:42 PM.

Resolution during Follow-Up Meetings

The discussions on the issues raised during the IEEE P1159.1 meeting were continued during the P1159.2 meeting. The outcome of this lengthy debate was that the P1159.1 and P1159.2 projects would be combined into a single project. This new project would also be a companion to IEEE Std 1159-1995 and would therefore be labeled P1159.x. The actual value for x is yet to be determined; it will probably be determined by the IEEE power quality standards coordinating committee (SCC-22) or by the IEEE New Standards Committee. The task force members present of P1159.1 and P1159.2 both agreed that this proposed new recommended practice would be developed by the July 2001 and would combine elements of the existing document written for P1159.2 with old drafts of P1159.1 and parts of IEC 61000-4-30.

This plan was discussed at length during the SCC 22 meeting, which took place on Wednesday morning, January 31, 2001. During this meeting, the SCC 22 members voted to allow the chair of the P1159 Working Group, Randy Collins, to begin the work necessary to complete the new P1159.x document. Initial work will be to discuss with IEEE NesComm the procedures necessary for withdrawing the PARs for P1159.1 and P1159.2 and drafting a new PAR for the new P1159.x project. Also, as part of the accelerated pace of the project, heavy use of e-mail will be used to include members in discussions.

Minutes Submitted by Daniel Sabin, IEEE P1159.1 Secretary