IEEE P1159.1
Guide for Recorder and Data Acquisition Requirements for Characterization of Power Quality Events

- Meeting Minutes -

IEEE PES 1999 Summer Meeting
Edmonton, Alberta, Canada

Angus Shaw Conference Room, Sheraton Hotel
Tuesday, July 19, 1999, 2:30 to 3:30 PM

Call to Order

The meeting was called to order by the task force chair, Roger Bergeron, at 2:30 PM on July 19, 1999. The minutes from the previous meeting were approved without any amendments.

Review of Draft

The chair highlighted the latest draft of P1159.1. Larry Morgan of Duke Power raised a point on the issue of sampling rates. He hopes that P1159.1 will supply the minimum number of samples per second that are required for various phenomena (e.g., voltage sags, transient overvoltages, etc.).

Action Item: Post as much information as possible on the Internet web site. Secretary was asked to look into this.

Rich Bingham of Dranetz-BMI was concerned about the requirements on frequency recording requirements. The discussion ended with a statement that a particular frequency accuracy would be necessary to define, as is in the present document. The chair invited comments if they wanted another frequency. A suggestion was made to coordinate more directly with IEC standards on frequency. A comment was made that the task force is currently not considering IEC 4-30.

A discussion ensued around the point that since P1159.2 focuses on the waveform characteristics of voltage sags, should 1159.1 only address those characteristics as well, rather than the characteristics of flicker, unbalance, harmonics, etc? The chair felt that it would be best to include all of the characteristics so that in the future 1159.X groups would have something from which to base computations.

Discussion was also raised by Greg Rauch of Schweitzer Engineering that the audience of this document may be a manufacturer of a device that only addresses voltage sags, but ignores other quantities. For that reason, such device could sample at a rate of 16 to 32 points per cycle, and therefore would need sampling rates on the order of megahertz. His suggestion was that P1159.1 be written in a modular fashion.

Action Item: Greg Rauch will provide some input for the purpose section of 1159.2 that explains how manufacturers monitors with various sampling rates can still use the standard.

Few reports were provided by the reviewers of the draft copy of 1159.1 from the last meeting. Greg Rauch did discuss the need of a section previously that he had previously discussed. The chair requested that there be comments sent to him by email.

Discussion was raised on the presence of DC in the AC electrical environment. Larry Morgan thinks that some mention of it needs to be in the document. Larry Morgan wanted a statement to be included that the instrument should be connected in a fashion to handle AC measurements. Erich Gunther of Electrotek Concepts, Inc. commented that an instrument compliant with P1159.1 should be able to measure DC levels with some accuracy that is appropriate for an electric power system.

Action Item: Rich Bingham will send to secretary a paragraph on for the standard.

Action Item: The following task force members were identified to review the latest version of the P1159.1 draft.

1. Larry Morgan, Duke Power
2. Richard Bingham, Dranetz-BMI
3. Gil Hensley, Pacific Gas and Electric
4. John O'Neil, Commonwealth Edison
5. Dan Sabin, Electrotek Concepts, Inc.
6. Greg Rauch, Schweitzer Engineering Laboratories
7. James Wikston, Hatch Associates
8. Andy Dettloff, Detroit Edison Company
9. Scott Peele, Carolina Power and Light
10. Henry Pinto, Metrosonics
11. Marek Waclawiak, United Illuminating Company

The chair requested feedback by September 30, 1999.

Action Item: New draft posted to web.
Action Item: Ask task force by email to respond to draft.
Action Item: Send emails to individuals on the draft

The chair feels that we need to be more aggressive to finish document on time. He also thinks that the document in its draft form covers the scope of what he wants to do.

Next Meeting

As of the adjournment of the meeting, the next meeting was undetermined. However, it was likely to meet in Las Vegas in February with other SCC22 working groups.

Minutes submitted by Daniel Sabin, Electrotek Concepts, Inc.
February 21, 2000