

Meeting Minutes
IEEE P1100 Working Group
Recommended Practice for Powering and Grounding Electronic Equipment

Monday October 1, 2001, Columbian Room
Hyatt Regency, Chicago, IL

Approval of Previous Meeting Minutes

Bob Schuerger noted a correction of the previous minutes; section 7.0 delete “May.” A motion was made by Bob Schuerger and seconded by Larry Guzy to accept the minutes with that correction. The motion passed unanimously.

Old Business

Chris Melhorn distributed the information on the website address and password. He also discussed the status of which chapters had posted information.

Chapters 1, 2 and 3 – no update.

Chapter 4 – Latest outline and revision has been posted as of last week. A review of the changes in the outline since the May meeting was given. A question was raised as to when to change from rev. 0 to rev. 1. Since each draft has been posted for a significant period, it is not an issue to formally make a change from rev. 0 to rev. 1 until the document has been sent for balloting. It was suggested to save the document as rev. 0 and then make correction in a new document to provide trackability. Also, an overall outline showing how the chapter was reorganized and where information was moved to would be helpful.

An issue was raised concerning coordination of chapter materials, since there have been so few chapter chairmen in attendance in the last couple of meetings, and many of the chapters do not have a draft posted yet.

Action items: Contact each chapter chairman and get a current version of each chapter to post on the web. Revisions to be provided by Nov. 15, 2001.

Have each chapter chairman arrange to attend the next meeting, or have a representative attend, so that chapter coordination can be addressed at the next meeting.

Chapter chairmen are to provide the latest version of their chapter two weeks before the next meeting.

An issue was raised concerning formatting of the document. Noelle Humenick is the project manager from the IEEE for the Emerald Book. She will assist in addressing formatting issues. Figures should be provided in one of the following formats: “.tif” “.eps” or “.wmf” Noelle can be reached at: n.humenick@ieee.org

Chapter 5, 6, and 7 no report. Chapter 7 text is posted on the website.

Chapter 8 – Outline on website, but no text.

A question was raised by Bob Schuerger on how the Emerald Book was going to address the issue of harmonic canceling transformers vs. harmonic blocking filters. Chris stated he had some information on EMI/EMF measurements he can provide.

Chapter 9 – no report.

Chapter 10 – A draft was distributed. It was noted that the title on the draft is “Industrial Wiring and Grounding” instead of “Industrial Equipment” as listed previously. This is a significant change that needs to be addressed by the Working Group as a whole, as the intent of creating a new chapter was to address process control equipment, machine tool equipment, etc. that have computers distributed over a large industrial facility.

From a cursory review of the draft, it appears to contain a great deal of excellent information, but some of the information should be moved to other chapters. For example, the first two sections overlap Chapter 4 “Fundamentals,” and the measurement information of section 14 should be inserted into Chapter 5 “Instrumentation.”

Action items: Contact chapter chairman and discuss the issue with him. Solicit comments from the Working Group on the draft provided. Resolve the issues of chapter title and which chapter the information provided belongs in.

Chapter 11 – no report. Several comments were made that the format should be changed to follow a flow of problem, technical data about problem, then the solution. It was also suggested that references be given to the case studies throughout the book when appropriate. (See case study ...)

Melvin Sanders brought up the issue of the magnitude of third harmonic currents in the neutral and using $\sqrt{3}$ as the maximum amount that it can exceed the phase currents. He stated that he was involved in the original discussions, and the information they were working from at the time was an EPRI study. The neutral current numbers from the study were close to $\sqrt{3}$, but not exactly $\sqrt{3}$. They rounded the number up to $\sqrt{3}$, as an easily recognizable figure. Also, it was only intended for branch circuits, not between the panel and transformer.

Action item: Bob Schuerger to work with Melvin directly when writing that section for Chapter 4 so it accurately describes the development and basis for using it. The Working Group will review it and address what the “recommended practice” will be (or remain as is).

PAR is for a 2004 edition of the Emerald Book, so deadlines are as follows:

May 2002 – comprehensive drafts of all chapters available. Chapter chairmen (or representative) at the meeting to resolve all coordination issues and outstanding action items.

Oct 2002 – Final review and acceptance of the draft by the Working Group to go out for balloting.

Nov./Dec. 2002 – Draft sent out for balloting.

May 2003 – Address comments from balloting and resolve issues.

Oct 2003 – Acceptance of final version by the Working Group and re-balloting if necessary.