

Minutes of 1658 Standards Committee Meeting in Colorado Springs, Colorado USA – June 15, 2006

Minutes Prepared by: Solomon Max – 2006-June 21 (2006-17-July)

IEEE Standard for Terminology and Test Methods for Digital-to-Analog Converters

Attendance: (Some arrived at different times during the day)

Bob Graham	Sandia National Labs, Albuquerque, NM USA
Sol Max	LTX Corporation, Westwood, MA USA (Secretary)
Fang Xu	Teradyne, Boston, MA USA
Tom Linnenbrink	Hittite, Colorado Springs, CO USA
Jerry Blair	Bechtel Nevada, Las Vegas, NV USA

Agenda: Thursday June 15, 2006

9:00 AM

1. Introductions - All
2. Review minutes of previous meeting
3. Review of status of the draft
4. Review of status of assignments per minutes of previous meetings: - Sol Max
5. Other business, future plans, more recruitments needed, etc. - All
6. Detailed review of draft – All
7. Break for Lunch - All
8. Detailed review of draft, continued - All
9. Review action items – Max
10. Discuss future meetings, conferences, ITC2006?
11. Adjourn

Meeting was called to order at 9:00 AM

Minutes from the previous meeting were reviewed and accepted.

The following table lists the assignments that had been made at the February 16, 2006 meeting in Gaithersburg, MD. The table has been modified in the third column to add a comment as to the current status of that assignment.

Sections	Assigned to	Comments
4.1, 4.3	Robert Graham	Test methods, Test setup, Static testing, Dynamic testing, Taking a record, Analog inputs <i>Will be done by August 1, 2006</i>
4.6, 4.9	Rich Liggiero	Linearity, Multichannel DAC parameters <i>Documents sent - not yet in standard format</i>
2, 3, 4.8	Francisco Alegria	Normative references, Definitions & symbols, Step response parameters <i>Done on 6 - June - 2006</i>
4.7	Niclas Björzell	Noise, Signal-to-Noise-ratio-And-Distortion, etc. <i>Next Meeting</i>
4.5	Eulalia Balestrieri	Gain and offset <i>The standard is probably now OK after latest revisions</i>
4.4, 4.45	Solomon Max	Analog output, Dynamic range <i>Done on 1 - June - 2006</i>

Sections 4.4 to 4.45 were reviewed. Some changes were made. There was discussion on the topology block diagrams. Tom Linnenbrink questioned the use of Analog Return as an input. The recommendation was made that the modified document be inserted into the draft. The figure will be reviewed at a later meeting.

It was recommended that after the 1057 draft is complete at the end of July, the latest relevant changes be included as a part of P1658.

It was recommended that the latest modified standard as done by Francisco Alegria be used as the new baseline. This new revision is included in the private section of the web site along with the modified sections 4.4 and 4.5. The web site includes:

1. A .doc format with the changes not yet accepted.
2. A .doc format with changes accepted.
3. A .pdf format with the changes accepted.

It was recommended that the sine-fit section be moved to an appendix, since sine-fit is not very relevant to DAC testing.

It was recommended that aperture uncertainty be deleted.

It is hoped that more assignments can be formalized after the next meeting, and when relevant sections from 1057 are merged into the DAC standard.