

ALMA International

Component Standards Sub-Committee Meeting Agenda

2005 Winter Symposium

Mission Statement: To establish standard nomenclature, dimensions and tolerances, and methods of measurement, ~~and~~ inspection, and qualification for loudspeaker components.

Sub-committee members and email addresses

- Distribute 2004 member/email list and add/change as appropriate.

Changes incorporated into 2005 member/email list.

Document numbering system discussion

- Currently documents are numbered with their 2-letter abbreviations followed by a sequential 3-digit number. For example the Dimensioning/Tolerancing Guidelines for Spiders is document number DG-004.

The sub-committee agreed to this system.

Document revision level discussion

- Currently revisions are indicated by date (consistent with other standards) on approved documents and by "DRAFT" on unapproved documents.

The sub-committee agreed to this system. Further, a draft plan was requested. The plan is to update DRAFT documents on the website every quarter.

Nomenclature Prints (NP's) updates

- Paddrings, whizzers, and grill cloth – Neal Baitcher and Greg Seidel

Dimensioning/Tolerancing Guidelines (DG's) updates

- Paddrings, whizzers, and grill cloth – Neal Baitcher and Greg Seidel

Measurement Guidelines (MG's) updates

- Paddrings, whizzers, and grill cloth – Neal Baitcher and Greg Seidel

- Format discussion

The sub-committee agreed that the measurement device reference needs to be clarified to indicate that these are minimum equipment requirements. Stu Lumsden volunteered to provide the sub-committee (c/o Brian Sterling) general measurement equipment guidelines and/or references.

Work Instructions (WI's)-Test Methods (TM's) updates

The sub-committee agreed that Work Instructions (WI's) should be called Test Methods (TM's)

- Spiders -- George Wise and Brian Sterling
- Voice Coils -- Jeff Guelzow
- Domes/Diaphragms (tweeter) – John Stewart and Myra Stewart
- Paddrings, Dust Caps, and Grill Cloth -- Greg Seidel
- Whizzers -- Neal Baitcher
- Diaphragms – George Wise
- Preconditioning and measurement conditions -- Neal Baitcher and Brian Sterling

Brian Sterling summarized existing standards and prepared a recommendation for the sub-committee. There was insufficient time to discuss this, so it is now proposed to the sub-committee for comment.

- ~~Component~~-Suspension Stiffness (static/quasi-static) – Brian Sterling and Bob True
- ~~Component~~-Suspension Resonance – Committee -- release as-is or modify?

The sub-committee agreed to place the current version of ALMA TM-100 on the ALMA website. Internal to the sub-committee, there is a call for comment to improve this version. Comments should be directed to Scott Weinstein, Greg Seidel, Neal Baitcher, and Brian Sterling.

- ~~Component-Suspension~~ Stiffness (dynamic) – Wolfgang Klippel and Greg Seidel

- Format discussion

The sub-committee agreed that Gage Repeatability and Reproducibility (GRR) information should be listed at the end of each TM.

It was proposed that, due to the large number of TM's required, that we first focus on completing the TM's for the critical characteristics of the currently (DRAFT) released MG's. There are currently 4 (DRAFT) released MG's with a total of 17 critical characteristics. 2 of these TM's already exist [ALMA TM-100 and TM-438 (EIA RS-438)], which leaves 15, which is manageable.

Other

- Can we post and/or link EIA RS-438 and AES 19-1992/ALMA TM-100 to our website?

Yes, the current version of ALMA TM-100 can and will be posted on the ALMA website. Dan Field will discuss the posting of EIA RS-438 with the CEA. In the meantime, we can post a link to the site where the standard can be purchased.

- Website comments – direct link on homepage to standards documents?

The sub-committee agreed that a direct link on the ALMA website homepage to the standards documents is a good idea. Brian Sterling will request this.

- Since we only meet once a year, how can we communicate more effectively and efficiently?

The sub-committee agreed that DRAFT documents can be released with the approval of the author(s) and the sub-committee chair only, while non-DRAFT documents must have sub-committee approval (i.e. at yearly meetings) for release.

There was request to document the general standards process. The resolution was to form a new committee within the Standards Committee. Founding members are Scott Weinstein, Greg Seidel, and Brian Sterling.

New Business

- Should we add a full hysteresis stiffness (force vs. displacement) test to ~~W~~TM-438?

No, the sub-committee agreed that Method B should be generalized to include the full hysteresis stiffness instead of creating a Method C.