



Minutes of Automated Component Handling Committee (ACH)

27 September 2007 Holiday Inn Riverwalk San Antonio, TX

ACH Committee's scope:

Develop and maintain engineering standards and publications for tape, reels, magazines, trays, etc. for handling components in production. Also, provide technical input to US national positions on related international standards issues and proposals.

Attendees:

First	Last	Company
James	Adams	3M
Michael	Ferrell	3M
Ray	Bloom	Advantek
Ralph	Justus	ECA/EIA
Rick	Prescott	Electro-Comp
Teri	Arguelles	Jabil
Gonzalo	Herrera	Jabil
Gabriela	Szopa	Jabil
Derek	Wyatt	Keaco, Inc.
Bill	Aldeen	Nu-Way Electronics
Henry	Sipes	Samtec, Inc.
Joe	Biernacki	Stackpole
Albert	Escusa	T.I.
Steven	Kummerl	T.I.
Doug	Romm	T.I.
Bill	Hall	Taylorreel
Scott	Carter	Tek Pak, Inc.
Ted	Coler	Vishay
Doug	Laven	V-Tek, Inc.

1. Call to Order

The meeting was called to order at 8:00 am.

2. Membership & Attendance – Introductions

Introductions were made by the attendees, and a quorum was present.

Member Organizations Present	San Antonio	San Diego	Reno	Ft. Lauderdale	Memphis	New Orleans
3M	Y	Y	N	Y	N	Y
Advantek, Inc.	Y	Y	Y	Y	N	N
Jabil Circuit, Inc.	Y	Y	Y	Y	^Y	n/a
Keaco, Inc.	Y	Y	Y	N	Y	Y
Nu-Way Electronics	Y	Y	N	Y	Y	Y
Samtec	Y	Y	Y	N	Y	Y
Stackpole	^Y	Y				
Taylorreel	Y	Y	Y	Y	Y	Y
Tek Pak, Inc.	Y	Y	Y	Y	Y	Y
Texas Instruments	Y	Y				
Vishay	Y	N	Y	Y	Y	Y
V-Tek, Inc.	Y	Y	Y	Y	N	N

^ Indicates activated as member of committee

Member Organizations Absent	San Antonio	San Diego	Reno	Ft. Lauderdale	Memphis	New Orleans
AVX	N	Y	N	Y	N	N
EDG Taping Equipment	N*	N*	N*	N	N	Y
Fuji America Corp	N	Y	N	^Y	n/a	n/a
Hover-Davis	N*	N*	N*	N	N	Y
IBM	N*	N	^Y	n/a	n/a	n/a
KEMET Electronics	N*	N	Y	^Y	n/a	n/a
Presidio	N	Y	N	N	^Y	n/a
Samsung Electro-Mechanics	N*	N	Y	^Y		
Tempo Electronics	N	Y	Y	^Y	n/a	n/a
Yageo/Phycomp	N*	N*	N*	N	N	Y

* Indicates not used in determination of quorum due to record of non-attendance or withdrawal

Other Organizations Present	San Antonio	San Diego	Reno	Ft. Lauderdale	Memphis	New Orleans
ECA/EIA	Y	Y	Y	Y	Y	Y
Electro-Comp	Y					
Intel	N	Y	N	Y		
KOA	N	Y	N			

3. Approval of Agenda

A motion was made to accept the meeting agenda by Mr. Bill Aldeen and seconded by Mr. Henry Sipes. The motion carried with no objections.

4. Approval of April 19, 2007 minutes

Due to the late posting of the minutes, Mr. Carter asked to table the approval of the minutes until after lunch so that enough time for review would be available. Motion to approve the minutes was made by Mr. Aldeen and seconded by Mr. Sipes. Motion was passed with no opposition and no abstentions.

5. Correspondence

Mr. Ralph Justus, Vice President of ECA made a presentation of the all Committee Chairs. He reported the work established by the Standards and Technology Policy Council, regarding EIA re-alignment, STPC scope, the approval of EP-20-B, update on the EIA ANSI Audit, and the Spring Summit March 31 to April 43 2008 in Louisville, KY. It was also mentioned that any information or committee suggestions need to be sent via e-mail to Mr. Justus or Ms. Cecelia Yates with clear instruction on the intent of the submitted information.

6. Sub-Committee & Working Group Reports

6.1 Snapshot of current projects and documents

Mr. Carter reported on the status of the current projects and documents with no discussion.

6.2 Update on disposition of EIA-481-A, EIA-481-1, EIA-481-2, EIA-481-3, EIA-783, and EIA-784

Mr. Carter mentioned that it is not clear that all the predecessor documents have been folded into 481-C, as well as possible confusion regarding superseding documents on the IHS/Global website. To be investigated.

6.3 Update on archival of ACH-2000

To be investigated.

6.4 Update on archival of EIA-726 (PN-5128) and EIA-763 (PN-5129)

It was also reported that on the IHS/Global website the above mentioned documents are still active standards. Mr. Carter to contact Mr. Justus for clarification.

6.6 Update on Polarized Component Orientation Bulletin

Per Mr. Carter, this bulletin release will be tabled due to the recommendation that it may not be necessary to implement.

6.7 Update on ballot to reaffirm EIA-296 (PN-5131)

Mr. Carter suggested that this committee re-ballot EIA-296. Mr. Justus will take the action to reaffirm this standard. PN-5131 needs to be confirmed that it is a current PN, Mr. Justus will look into this matter and report back to the group.

6.8 Update on publication of EIA-704

Mr. Carter has contacted Cecelia Yates and confirmed that the balloting has been done and will be submitted to HIS/Global for distribution.

Open discussion,

Mr. Steven Kummerl of TI asked if committee members could request a copy of a Standard. Per Mr. Justus, they are available to members if it is relative to a new Standard or if the member is actively working on a Standard.

6.9 EIA-468 Task Force (PN-5132)

Mr. Bill Aldeen presented a hardcopy report to the group regarding the EIA-486-B Radial Taping Standard committee's work to date. Mr. Aldeen reviewed the credentials of the committee members. Mr. Aldeen also discussed the principles and objectives of the committee, which included the taping styles for high speed and non-high speed insertion equipment, informative elements of the current EIA, IEC and Japan Standards, and the significant enhancements in the proposed Standard. The next step for the committee will be to reach a consensus on the draft Standard at the September 2007 ACH meeting, so balloting can be completed within 4 weeks after this meeting. Plans to evaluate the ballots at the Spring 2008 meeting for approval of the Standard for publication.

Mr. Doug Romm asked if the Standard would address details such as the proper taping orientation of a TO92 device. Mr. Aldeen reported that the Standard does address this particular detail in 4.14 of the document. This discussion led to comments by the group regarding adding a pin 1 reference to the Standard.

A copy of Mr. Aldeen's report will be added to the meeting minutes. Mr. Carter requested that this Standard has ANSI approval. This will be done in the comment resolution meeting by the committee. Mr. Aldeen moved to except the Standard as written with the noted changes and put it out to ballot, this motion was seconded by Mr. Bill Hall. Motion carried unanimously.

6.10 Small Width/Pitch Task Force (PN 5081)—Discussion of IEC TC40/WG36 proposal for 4-mm wide x 1-mm pitch tapes

Mr. Carter reported that this committee was to wait for the minutes of the IEC TC40/WG36 group, so it could proceed with this discussion point. Mr. Carter will contact Mr. Paul Friedrich of the TC40/WG36 regarding any updates. 6.10 tabled until the next meeting.

6.11 ACH Application Guide--Status Report

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Mr. Sipes reported that the guide is in an outline format that is posted on the Web site located at www.ec-central.org. It is available for members to download, update and resubmit sent to Mr. Sipes, so he can re-post any changes.

6.12 Editing Committee—Recommendations for improved orientation guidelines in EIA-481-C— Gonzalo Herrera, Doug Romm, Michael Griffith, and Henry Sipes

Mr. Herrera presented a report of the objectives of the EIA-481 editing committee. A draft document with changes for a proposed EIA-481-D Standard were discussed. Sections 4.14.c, orienting feature, 14.4.d, edge length difference regarding the square of the device, 4.14.f, “Orientation Guide for Commonly Used Devices”, were the main areas of editing for the group.

Mr. Aldeen opened the discussion regarding the definition of ‘square’ and the wording found in the Standard, which led to a group discussion to clarify the language found in the current Standard.

Original EIA-481-C statement

A component is described as square if the bounding rectangle around the outer extends of the component (including body and terminations) contains edges with equal lengths; i.e.
 $A_0 = B_0$

481-D draft

A component is described as square if the bounding rectangle around the outer extents of the component (including body and terminations) contains edges with equal nominal lengths with a +/- 0.3 mm tolerance.

-or-

A component is described as square if the bounding rectangle around the outer extents of the component (including body and terminations) contains edges with a difference no greater than 0.3 mm between the nominal length and width.

Mr. Herrera motioned that the proposed changes be implemented into EIA-481-C, for a EIA-481-D release that will go out to ECA and ANSI balloting before the next meeting. The motion was seconded by Mr.Sipes. Motion passed with no opposition and no abstentions.

6.13 Advanced Cover Tape Proposal-Mr. Farrell, Mr. Adams, Mr. Bloom, and Mr. Biernacki

Mr. Adams submitted additions to the language in section 4.11 of 481-C. Peel is defined as the separation of the full width of the cover tape from the carrier tape or the removal of the center portion of the cover tape from the carrier tape to enable component removal from the cavity. A recommendation to Committee in the form of a memo from 3M was also presented to the group by Mr. Adams

A motion to adopt additional language to be introduced into 481-C was made by Mr. Farrell. Seconded by Mr. Bloom.

The motion was passed with no opposition and no abstentions.

Mr. Carter presented a report from the April 22, 2004 Tampa ACH minutes regarding the measuring of camber in carrier tape. He reminded everyone that the committee voted to add sections 4.3 d and 4.3 e to 481. The new drawing labeled Figure X in the draft copy will replace the existing camber drawing as well. Mr. Farrell warned the group that some might interpret this wording as a Spec. It was discussed to replace the word 'generated' with 'experienced' in 4.3 e. Mr. Herrera will add the Camber portion from Mr. Carter and the Advance Cover Tape wording from Mr. Farrell via email. These changes will be included to the work done by Editorial committee to the proposed 481-D.

7. Guest Presentation

There was no guest presentation.

8. New Business

8.1 Method of measurement for "wavy tape" -Mr. Sipes and Mr. Carey

Mr. Sipes reported that he was able to create a method to show wavy tape. Mr. Farrell mentioned that the sample tape is actually a deformed pocket. Mr. Carter asked to have the topic tabled until the Spring 2008 meeting. If there is no further activity on this topic, the task group will be disbanded.

8.2 Author names on ACH standards.

Mr. Carter suggested all the active ACH members and committee members be named as authors. Mr. Justus mentioned he would bring it to the attention of the General council. Mr. Justus is concerned about legal ramifications versus recognition.

9. Old Business

9.1 Update on tape splicing results/guidelines

Mr. David of Carey of Intel was not present, and there was no update provided. This will be tabled until the meeting.

9.2 Marketing and new membership update--Status of brochures

Mr. Aldeen presented the objectives of the Marketing group with the additions of the new logo. Mr. Aldeen requested Mr. Justus to post this brochure on the ECA web site.

Mr. Hall raised the concern of an easier way to access the ACH information from the ECA website. He suggested www.ach.org as one possibility to make information more accessible. Mr. Justus will review the ach.org suggestion as well as other methods with the ECA office.

Mr. Justus will work a EIA-481 and and/or EIA-468 workshop into the existing time frame of the scheduled 2008 Spring meeting.

Mr. Carter asked the group if there were any other marketing ideas, i.e. new members or ways to get guest speakers. Some member expressed a concern of not getting our work conveyed to other working groups. Mr. Justus proposed the ACH group holding a workshop to help get information out to the other committees. Mr. Justus impressed upon this group to stay with the co-meeting approach we currently have with EIA.

10. Future Meeting

The next full meeting of the ACH committee will occur in conjunction with the ECA Spring Engineering Summit, March 31- April 3, 2008, Louisville, KY. The ACH committee meeting will be held on Thursday, April 3, 2008.

Meeting details:

The Brown Hotel
335 West Broadway
Louisville, KY 40202
502-583-1234 or 1-888-888-5252

Mention you're with ECA to receive a discounted room rate.

11. Adjournment

Motion to adjourn was made by Mr. Romm, seconded by Mr. Farrell. The motion carried with no objections.

This meeting was conducted in accordance with the EIA Legal Guidelines and the Manual of Organization and Procedures.

Scott Carter
Chairman

Doug Laven
Secretary