Record of Line-item Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: North America

Global Technical Committee: HB-LED

TC Chapter Cochairs: Iain Black/Philips, Mike Feng/Silian, Chris Moore/Bay Tech-Resor, Eric Armour/Veeco

Standards Staff: Laura Nguyen

|  |  |  |
| --- | --- | --- |
|  | Scheduled in Background Statement | Actual |
| Date | 11/05/2015 | 11/05/2015 |
| Location | SEMI HQ, San Jose, Ca | SEMI HQ, San Jose, Ca |
| Reason for Change of Date and/or Location  (if changed) |  | |

**Note: See *Regulations* ¶ 9.5 Exception for allowable reason to change.**

*Document Information*

I. Document Number, Title, Lists of Line Items

|  |  |  |
| --- | --- | --- |
| **Document Number 5916** | | **Document Title**  **Line Item Revisions to HB6-0615, Test Method for Measurement of Thickness and Shape of Crystalline Sapphire Wafers by Using Optical Probes** |
| **List of Line Items** | **Line Item 1** | **Line Item Title**  **Addition of the results of an MSA with a double-side polished sapphire wafer in section 16 and in Related Information 1** |
| **Line Item 2** | **Line Item Title**  **Replace the arrow depicting the diameter of the wafer in Figure 2 by an arrow that depicts the radius** |
| **Line Item 3** | **Line Item Title**  **Replace in R1-2.1 “site size: 1 by 1 mm” by “site size: 5 by 5 mm”** |

*Line Item 1 Adjudication*

II. Tally

Standards staff to fill in.

**Voting Tally: As-cast tally after close of voting period**

**Note: A minimum of 60% of the Voting Interests that have TC Members within the global technical committee that issued the Letter Ballot must return Votes. (*Regulations* ¶ 9.7.1.1)**

**Voting Tally (with example values):**

**Note: See *Regulations* § 3.2.1 for definition of Voting Interest.**

III. Rejects

No rejects submitted

IV. Other Technical Issues

None

V. Comments

No comments submitted

VI. Editorial Changes Other than Those Voted on in § V

None

VII. Approval Conditions Check

VII. - (i). Approval Rate

**APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (*Regulations* ¶ 9.7.1.2)**

**APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations* ¶ 9.7.1.3)**

Note: If both approval conditions are not satisfied, the Document fails.

VII. – (ii) Approval Level (check one)

Note: See *Regulations* § 9.7.2 for further information.

|  |  |
| --- | --- |
| X | Globally Approved (No Ratification Ballot needed):  Line Item 1 meets the Letter Ballot approval conditions for the global technical committee. |
|  | Need a Ratification Ballot:  Line Item 1 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes. |

*Line Item 2 Adjudication*

II. Tally

Standards staff to fill in.

**Voting Tally: As-cast tally after close of voting period**

**Note: A minimum of 60% of the Voting Interests that have TC Members within the global technical committee that issued the Letter Ballot must return Votes. (*Regulations* ¶ 9.7.1.1)**

**Voting Tally (with example values):**

**Note: See *Regulations* § 3.2.1 for definition of Voting Interest.**

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: Rubicon)

Voter Reject 1 (Voter: John Ciraldo/Rubicon)

Negative 1

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Negative** | **Referenced Section/ Paragraph** | | | | **Figure 2** | | | | | | | | | |
|  | | | | | | | | | |
| **Negative Text** | | | | **It is common to define wafers by the diameter, not the radius.** | | | | | | | | | |
|  | | | | | | | | | |
| **TF input (optional)** | | | | |  | | | | | | | | | |
| **Withdrawal (check one)** | | | | | X | No Negative withdrawal made by Voter. | | | | | | | | **GO TO “Related” subsection** |
|  | Withdrawal document received by Standards staff on MM/DD/YYYY. | | | | | | | | **GO TO “Final” subsection 🡪 (A)** |
| **Related** | **Motion and Reason**  **(check one)** | | | | ~~X~~ | ‘Related’ is mutually agreed upon. **(Needs no motion.)** | | | | | | | | **GO TO “Persuasive” subsection** |
|  | Negative is not related. **(Needs ≥2/3 votes to pass.)** | | | | | | | | |
|  | Reason | | | | XXXX | | | | |
| **Motion by/**  **2nd by** | | | | **Name (Company)/Name (Company)** | | | | | | | | | |
| **Discussion** | | | |  | | | | | | | | | |
| **Result of Vote (check one)** | | | | XX **Y**-XX **N**; Motion passed/failed. | | | | | | | | | |
|  | [Negative is not related.] < 2/3 | | | | | | | | **GO TO “Persuasive” subsection** |
|  | 2/3 ≤ [Negative is not related.] | | | | | | | | **GO TO “Final” subsection 🡪** **(B)** |
| **Persuasive** | **Motion and Reason**  **(check one)** | | | |  | Negative is related and persuasive. **(Needs >1/3 votes to pass.)** | | | | | | | | |
| X | Negative is related and not persuasive. **(Needs ≥2/3 votes to pass.)** | | | | | | | | |
|  | Reason | | | | The document does not define the names of wafers, it is just a test method.  The item on ballot is a correction of a mathematically wrong labelling.  Figure 2 illustrates the position of the measurement points and Eqs. 2 and 3.  It does not define any naming convention for sapphire wafers, or conflict with an existing one.  All the correction does is calling the radius of the FQA of a wafer “radius”.  In fact, Fig. 2 does not indicate the diameter or radius of the wafer. | | | | |
| **Motion by/**  **2nd by** | | | | Steve Martell (Sonoscan)/Bevan Wu (BW & Associates) | | | | | | | | | |
| **Discussion** | | | | None | | | | | | | | | |
| **Result of Vote (check one)** | | | | 5 **Y**-0 **N**; Motion passed | | | | | | | | | |
|  | [Negative is related and persuasive.] > 1/3 | | | | | **Is a technical change recommended?**  **(check one)** |  | **Y** | **GO TO “Address by Technical Change Option” subsection** |
|  | [Negative is related and not persuasive.] < 2/3 | | | | |  | **N** | **GO TO “Final” subsection 🡪 (E)** |
|  | 2/3 ≤ [Negative is related and not persuasive.] < 90% | | | | | **GO TO “Final” subsection 🡪 (C)** | | | |
| X | 90% ≤ [Negative is related and not persuasive.] | | | | | **GO TO “Not Significant Finding Option” subsection** | | | |
| **Address by Technical Change Option** | **Technical Change Recommendations**  **Original section/paragraph number and at least one full sentence are required in “FROM” and “TO” fields.** | | | | | | | | | | | | | |
| **Technical Changes** | | **1** | **FROM:** **Section/Paragraph XXX** | | | | | | | | | | |
| **TO: Section/Paragraph xxx** | | | | | | | | | | |
| **Justification (If necessary)** | | | | | | | | | | |
| **2** | **FROM:** **Section/Paragraph XXX** | | | | | | | | | | |
| **TO: Section/Paragraph xxx** | | | | | | | | | | |
| **Justification (If necessary)** | | | | | | | | | | |
| **Motion** | | | | | | Negative is addressed by the technical change(s). | | | | | | | |
| **Motion by/2nd by** | | | | | | Name (Company)/Name (Company) | | | | | | | |
| **Discussion** | | | | | |  | | | | | | | |
| **Result of Vote**  **(check one)** | | | | | | XX **Y**-XX **N**; Motion passed/failed. | | | | | | | |
|  | 2/3 ≤ [Negative is addressed by the technical change(s).] | | | | | | **GO TO “Incorporation of the Technical Change” subsection** |
|  | [Negative is not addressed by the technical change(s).] < 2/3 | | | | | | **GO TO “Final” subsection 🡪 (E)** |
| **Incorporation of the Technical Change** | | **Motion** | | | | To incorporate the technical change(s). | | | | | | | |
| **Motion by/2nd by** | | | | Name (Company)/Name (Company) | | | | | | | |
| **Discussion** | | | |  | | | | | | | |
| **Result of Vote (check one)** | | | | XX **Y**-XX **N**; Motion passed/failed. | | | | | | | |
|  | 90% ≤ [Agree to incorporate.] | | | | | | **GO TO “Final” subsection 🡪 (F)** |
|  | [Disagree to incorporate.]>10% | | | | | | **GO TO “Final” subsection 🡪 (E)** |
| **Not Significant Finding Option** | **This option can be used only “if the TC Chapter finds a Negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action”. (*Regulations* ¶ 9.6.4.4.2)** | | | | | | | | | | | | | |
| **Use of “Not significant finding option”**  **(check one)** | | | | X | It is mutually agreed upon to term the Negative “not significant”. | | | | | | | | **GO TO “Final” subsection 🡪** **(D)** |
|  | It is mutually agreed upon to term the Negative “significant”. | | | | | | | | **GO TO “Final” subsection 🡪 (C)** |
|  | Whether or not the Negative is “not significant” is decided by a vote. | | | | | | | | |
| **Motion** | | | | The Negative is “not significant”. | | | | | | | | | |
| **Motion by/**  **2nd by** | | | | Name (Company)/Name (Company) | | | | | | | | | |
| **Vote** | | | |  | XX **Y**-XX **N**; Motion passed with simple majority | | | | | | | | **GO TO “Final” subsection 🡪 (D)** |
|  | XX **Y**-XX **N**; Motion failed with simple majority | | | | | | | | **GO TO “Final” subsection 🡪 (C)** |
| **Final** | | **(check if applicable)** | | |  | **(A)** | | | Withdrawn **(counted under h in disposition)** | | | | | |
|  | **(B)** | | | Not related **(counted under i in disposition)** | | | | | |
|  | **(C)** | | | Related and not persuasive (significant) | | | | | |
| X | **(D)** | | | Not significant **(counted under j in disposition)** | | | | | |
|  | **(E)** | | | Related and persuasive and not addressed by technical change | | | | | **DOCUMENT FAILS** |
|  | **(F)** | | | Addressed by technical change **(counted under k disposition)** | | | | | |
| **(check if applicable)** | | |  | Comment generated. **See Section V-(ii) Comment #** X. | | | | | | | | |

Disposition of Voting Interest Reject 1

**Check only when the Document has not been failed.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Original number (#) of Negatives | | | | **(g)** |
| 0 | Number of Negatives withdrawn | | | | **(h)** |
| 0 | Number of Negatives found not related | | | | **(i)** |
| 1 | Number of Negatives found not significant | | | | **(j)** |
| 0 | Number of Negatives addressed by technical change **(Negative becomes not significant)** | | | | **(k)** |
| **Final** | | X | **g** - (**h** + **i** +**j + k**) = 0 | **Reject is Not Valid and is not included in the denominator of § VI. *Approval Conditions Check*** | |
|  | **g** - (**h** + **i** +**j + k)** >0 | **Reject is included in the denominator of § VI. *Approval Conditions Check*** | |
|  | Reject without a Negative | **Not Valid** | |

**Note: If all of the Negatives included with a Reject Vote are withdrawn, determined to be not related, or determined to be not significant, the Reject Vote is not valid. (*Regulations* ¶ 9.4.3.3)**

**Note: A Negative addressed by a technical change is automatically considered to be not significant. (*Regulations* ¶ 9.6.4.4.2)**

IV. Other Technical Issues

None

V. Comments

None

VI. Editorial Changes Other than Those Voted on in § V

None

VII. Approval Conditions Check

VII. - (i). Approval Rate

**APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (*Regulations* ¶ 9.7.1.2)**

**APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations* ¶ 9.7.1.3)**

Note: If both approval conditions are not satisfied, the Document fails.

VII. – (ii) Approval Level (check one)

Note: See *Regulations* § 9.7.2 for further information.

|  |  |
| --- | --- |
| X | Globally Approved (No Ratification Ballot needed):  Line Item 2 meets the Letter Ballot approval conditions for the global technical committee. |
|  | Need a Ratification Ballot:  Line Item 2 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes. |

*Line Item 3 Adjudication*

II. Tally

Standards staff to fill in.

**Voting Tally: As-cast tally after close of voting period**

**Note: A minimum of 60% of the Voting Interests that have TC Members within the global technical committee that issued the Letter Ballot must return Votes. (*Regulations* ¶ 9.7.1.1)**

**Voting Tally (with example values):**

**Note: See *Regulations* § 3.2.1 for definition of Voting Interest.**

III. Rejects

No rejects submitted

IV. Other Technical Issues

None

V. Comments

No comments submitted

VI. Editorial Changes Other than Those Voted on in § V

None

VII. Approval Conditions Check

VII. - (i). Approval Rate

**APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (*Regulations* ¶ 9.7.1.2)**

**APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations* ¶ 9.7.1.3)**

Note: If both approval conditions are not satisfied, the Document fails.

VII. – (ii) Approval Level (check one)

Note: See *Regulations* § 9.7.2 for further information.

|  |  |
| --- | --- |
| X | Globally Approved (No Ratification Ballot needed):  Line Item 3 meets the Letter Ballot approval conditions for the global technical committee. |
|  | Need a Ratification Ballot:  Line Item 3 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes. |

*Checks for Entire Document Including All Approved Line Items*

VIII. Safety Check

Note: This Safety check applies to the entire Standard or Safety Guideline including all the approved Line Items. See § 15 of the *Regulations* for further information.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Motion** | **X** | **This is not a Safety Document**, when all safety-related information is removed, the Document is still technically sound and complete.(*Regulations* ¶ 8.7.1) | | |
|  | **This is a Safety Document**, when all safety-related information is removed, the Document is not technically sound and complete.(*Regulations* ¶ 8.7.2) | | |
|  |  | Safety Checklist (*Regulations* ¶ 15.3) is complete and has been included with the Document throughout the balloting process. (*Regulations* ¶ 15.1.2) | |
| **Motion by/2nd by** | | | | Steve Martell (Sonoscan)/John Ciraldo (Rubicon) |
| **Discussion** | | | | None |
| **Vote** | | | | 5 **Y**- 0 **N**; Motion passed |

IX. Intellectual Property (IP) Check

Note: This IP check applies to the entire Standard or Safety Guideline including all the approved Line Items. See § 16 of the *Regulations* for further information.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| X | The TC Chapter meeting chair asked those participating, if they were aware of any potentially material patented technology or copyrighted items\* in the Standard or Guideline. (*Regulations* ¶ 8.8.1) | | | | | |
|  | X | No potentially material patented technology or reproduction of copyrighted items is known. | | | | **GO TO SECTION X.** |
|  | Potentially material patented technology or reproduction of copyrighted items is known, but a Letter of Assurance (LOA) or copyright release letter for such items has been obtained or presented to the TC Chapter. | | | | **GO TO SECTION X.** |
|  | Potentially material patented technology or reproduction of copyrighted items is known and use of such materials is technically justified by the TC Chapter, but an LOA or copyright release letter for some of the item(s) has NOT been obtained or presented to the TC Chapter. | | | | |
| **Motion** |  | Ask ISC for special permission to publish. | | | |
|  | Quit activity. | | | |
|  | Wait for LOA for patented technology or release of copyrighted items. | | | |
| **Motion by/2nd by** | | | Name (Company)/Name (Company) | | |
| **Discussion** | | | XXXX | | |
| **Vote** | | | XX **Y**-XX **N** | | |
| **Final Action** | | |  | Motion passed | |
|  | Motion failed | |

\* Note: Such potentially material patented technology or copyrighted items might have become known since the Standard or Safety Guideline was last reviewed, or might become relevant due to this Letter Ballot.

X. Action for This Document

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Motion**  **(Check all applicable items)** | **X** | Line item(s) [1], [2], and [3] passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review. | | |
|  | Line item(s) [X], [X] and [X] passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review. | | |
|  | Line item(s) [X], [X] and [X] passed TC Chapter review with technical changes and with or without editorial changes and will be forwarded to the ISC A&R SC for procedural review. A Ratification Ballot will be issued to verify the technical changes. | | |
|  | Line item(s) [X], [X] and [X] failed TC Chapter review and will be returned to the TF for rework. | | |
|  | Line item(s) [X], [X] and [X] failed TC Chapter review and work will be discontinued. | | |
| **Motion by/ 2nd by** | | | John Ciraldo (Rubicon)/ Steve Martell (Sonoscan) | |
| **Discussion** | | | None | |
| **Vote** | | | 5 **Y**- 0 **N** | |
| **Final Action** | | | X | Motion passed |
|  | Motion failed |

Standards staff to record the result of the A&R procedural review here:

|  |  |  |
| --- | --- | --- |
| **A&R** |  | **Line item(s) [X], [X] and [X] are Approved for publication** |
|  | **Line item(s) [X], [X] and [X] are Approved pending acceptance of the Ratification Ballot** |
|  | **Line item(s) [X], [X] and [X] are Not approved** |
| **Reason:** | |