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

Region/Locale: North America

Global Technical Committee: Traceability

TC Chapter Cochairs: Yaw Obeng/NIST, Dave Huntley/PDF Solutions

Standards Staff: Michelle Sun

|  |  |  |
| --- | --- | --- |
|  | Scheduled in Background Statement | Actual |
| Date  | 3/30/2020 | 2/24/2021 |
| Location | SEMI HQ | OVTCCM |
| Reason for Change of Date and/or Location(if changed) | The meeting was postponed due to the COVID-19 pandemic. |

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

*Document Information*

I. Document Number, Title, Lists of Line Items

|  |  |
| --- | --- |
| **Document Number 6604** | **Document Title****Line Item Revision to SEMI T5-1214: Specification for Alphanumeric Marking of Round Compound Semiconductor Wafers** |
| **List of Line Items** | **Line Item 1** | **Line Item Title****Correct minor editorial and technical errors or omissions** |
| **Line Item 2** | **Line Item Title****Add format definition for 200 mm SiC wafers** |
| **Line Item 3** | **Line Item Title****Define location of the code field on 200mm SiC wafers** |
| **Line Item 4** | **Line Item Title****Update figure and table numbering and change the references in the text** |

*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* ¶ 9.6.2.1.1)**

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

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

III. Rejects

None.

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**APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change.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* ¶ 9.6.2.1.2)**

**APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations* ¶ 9.6.2.1.3)**

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

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

Note: See *Regulations* § 9.6.2 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

**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* ¶ 9.6.2.1.1)**

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

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

III. Rejects

Rejects

Voting Interest Reject 1 (Voting Interest Name: SELF)

Voter Reject 1 (Voter: Judy Kronwasser / SELF)

Negative 1

|  |  |  |
| --- | --- | --- |
| **Negative** | **Referenced Section/ Paragraph** | **\*TF/TC Chapter to fill in, including text in the ballot if necessary.** |
| **6.1** |
| **Negative Text** | **\*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.** |
| **6.1 Code --implies changes to Table 3. However, the ballot does not show the new versions of table 3. As table 3 stands, the SiC,****GaN, AlN wafers are allowed 18 characters. This is good since vendors are commonly using up to 15 characters. I recommend NOT****calling out the reduced limit of the number of characters allowed for 200 mm SiC wafers to only 12. Keeping the maximum number of****characters the same for all diameters of SiC, GaN and AlN also simplifies the text of the document. Table 5 would no longer be****needed, nor Fig 8. Below is the simplified version of 6.1****6.1 Code —For GaAs, InP and InSb, the code is limited to one line of 20 characters maximum; for 150mm and 200 mm SiC, GaN, and****AlN, the code is limited to one line of 18 characters maximum (see Figures 4, 5, 6 and 7, and Table 3 for examples and Note 4). Fewer****characters may be used without using leading or trailing dashes. The first five to ten characters are an identification code that is unique****to the ingot for a given supplier. This is followed by a dash, which is followed by two or three digits that indicate the wafer number, as****numbered starting from the seed end of the ingot. The next two alpha characters identify the vendor according to SEMI AUX001. The****last optional characters are specified by the vendor or customer (see ¶ 6.2 and Table 4). Alternately the last characters are check****characters (see SEMI M12). These check characters are machine generated for code acceptance and reading verification.** |
| **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)** | x | Negative is related and persuasive. **(Needs >1/3 votes to pass.)** |
|  | Negative is related and not persuasive. **(Needs ≥2/3 votes to pass.)** |
|  | Reason | XXXX |
| **Motion by/****2nd by** | By: Tom Barbieri / Cree, Inc.Second: Nick Infelise / Omron Electronics, Inc |
| **Discussion** |  |
| **Result of Vote (check one)** | 5 **Y**-0 **N**; Motion passed. |
| x | [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 | x | **N** | **GO TO “Final” subsection 🡪 (E)** |
|  | 2/3 ≤ [Negative is related and not persuasive.] < 90% | **GO TO “Final” subsection 🡪 (C)** |
|  | 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* ¶ 9.6.1.4.5.2)** |
| **Use of “Not significant finding option”****(check one)** |  | 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) |
|  | **(D)** | Not significant **(counted under j in disposition)** |
| x | **(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. |

Voting Interest Reject 2 (Voting Interest Name: FCM)

Voter Reject 1 (Voter: Russ Kremer / FCM)

Voting Interest Reject 3 (Voting Interest Name: Infineon)

Voter Reject 1 (Voter: Michael Buchweitz-Moenke / Infineon)

Voter Reject 2 (Voter: Mike Broxtermann / Infineon)

Voting Interest Reject 4 (Voting Interest Name: NG)

Voter Reject 1 (Voter: James Oliver / NG)

Voting Interest Reject 5 (Voting Interest Name: SiCry)

Voter Reject 1 (Voter: Arnd-Dietrich Weber / SiCry)

Voter Reject 2 (Voter: Bernhard Ecker / SiCry)



IV. Other Technical Issues

None.

V. Comments

V- (i) Voters’ Comments

V-(ii) Comments Created by Handling Negative

None.

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

None.

VII. Approval Conditions Check

VII. - (i). Approval Rate

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

Note: See *Regulations* § 9.6.2 for further information.

|  |  |
| --- | --- |
|  | 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

**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* ¶ 9.6.2.1.1)**

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

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

III. Rejects

Rejects

Voting Interest Reject 1 (Voting Interest Name: SELF)

Voter Reject 1 (Voter: Judy Kronwasser)

Negative 1

|  |  |  |
| --- | --- | --- |
| **Negative** | **Referenced Section/ Paragraph** | **\*TF/TC Chapter to fill in, including text in the ballot if necessary.** |
| **Table 6, 7.4** |
| **Negative Text** | **\*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.** |
| **Table 6 defines the orientation of characters for 150mm SiC with flats and 200 mm SiC with notches. It neglects 150mm SiC with****notches.****7.4 Dimensions describes the location of the character field for Si-face and C-face wafers. Is the scribe on the “back” of the wafer in****both cases or is it always on the C-face? I think it indicates the former, but it could be clearer. This confusion would also apply to****GaN and AlN.** |
| **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)** | x | Negative is related and persuasive. **(Needs >1/3 votes to pass.)** |
|  | Negative is related and not persuasive. **(Needs ≥2/3 votes to pass.)** |
|  | Reason | XXXX |
| **Motion by/****2nd by** | By: Tom Barbieri / Cree, Inc.Second: Albert Fuchigami / PEER Group Inc. |
| **Discussion** |  |
| **Result of Vote (check one)** | 5 **Y**-0 **N**; Motion passed. |
| x | [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 | x | **N** | **GO TO “Final” subsection 🡪 (E)** |
|  | 2/3 ≤ [Negative is related and not persuasive.] < 90% | **GO TO “Final” subsection 🡪 (C)** |
|  | 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* ¶ 9.6.1.4.5.2)** |
| **Use of “Not significant finding option”****(check one)** |  | 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) |
|  | **(D)** | Not significant **(counted under j in disposition)** |
| x | **(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. |

Voting Interest Reject 2 (Voting Interest Name: Infineon)

Voter Reject 1 (Voter: Michael Buchweitz-Moenke / Infineon)

Voter Reject 2 (Voter: Mike Broxtermann / Infineon)

Voting Interest Reject 3 (Voting Interest Name: NG)

Voter Reject 1 (Voter: James Oliver / NG)

Voting Interest Reject 4 (Voting Interest Name: SiCry)

Voter Reject 1 (Voter: Arnd-Dietrich Weber / SiCry)

Voter Reject 2 (Voter: Bernhard Ecker / SiCry)



*Line Item 4 Adjudication*

II. Tally

**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* ¶ 9.6.2.1.1)**

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

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

III. Rejects

Rejects

Voting Interest Reject 1 (Voting Interest Name: SiCry)

Voter Reject 1 (Voter: Weber, Arnd-Dietrich)

Negative 1

|  |  |  |
| --- | --- | --- |
| **Negative** | **Referenced Section/ Paragraph** | **\*TF/TC Chapter to fill in, including text in the ballot if necessary.** |
|  |
| **Negative Text** | **\*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.** |
| **related to item 2 +3** |
| **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)** | x | Negative is related and persuasive. **(Needs >1/3 votes to pass.)** |
|  | Negative is related and not persuasive. **(Needs ≥2/3 votes to pass.)** |
|  | Reason | XXXX |
| **Motion by/****2nd by** | By: Tom Barbieri / Cree, Inc.Second: Albert Fuchigami / PEER Group Inc. |
| **Discussion** |  |
| **Result of Vote (check one)** | 5 **Y**-0 **N**; Motion passed. |
| x | [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 | x | **N** | **GO TO “Final” subsection 🡪 (E)** |
|  | 2/3 ≤ [Negative is related and not persuasive.] < 90% | **GO TO “Final” subsection 🡪 (C)** |
|  | 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* ¶ 9.6.1.4.5.2)** |
| **Use of “Not significant finding option”****(check one)** |  | 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) |
|  | **(D)** | Not significant **(counted under j in disposition)** |
| x | **(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. |

Voter Reject 2 (Voter: Bernhard Ecker / SiCry)



*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** | By: Tom Barbieri / Cree, Inc.Second: Albert Fuchigami / PEER Group Inc. |
| **Discussion** | None |
| **Vote** | 5 **Y**-0 **N**; Motion passed |

IX. Intellectual Property (IP) Check

Note: This Letter Ballot may cover all or part of a Standard or Safety Guideline. Regardless of the coverage, this IP check applies to the entire Standard or Safety Guideline including all the approved Line Items\*. See *Regulations* § 16 for further information.

|  |  |
| --- | --- |
| x | The TC Chapter meeting chair asked those participating, if they were aware of any patented technology that might be relevant (see *Regulations* ¶ 16.3.1.1) to the Standard or Safety Guideline; or, any copyrighted items or trademarks that are used/reproduced (see *Regulations* ¶ 16.4.1.2) in the Standard or Safety Guideline. (Also see, *Regulations* § 8.8) |
|  | x | The question is NOT answered in affirmative (No potentially material patented technology or use/reproduction of copyrighted items/trademarks is known.) | **GO TO SECTION X.** |
|  | The question is answered in affirmative  | Is any of the known IPs a patented technology?  |  | **Yes, at least one of them is a patented technology** | **GO TO IX (a) “Patented Technology” subsection** |
|  | **No** | **GO TO IX (b) “Copyright items” subsection** |

**IX(a) Patented Technologies subsection**

**IX(a1) Total numbers of Patented Technologies to be dealt with**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#****Fill number**  | **(l)** Known Patented Technology that might be relevant to the Standard/Safety Guideline | **#****Fill number** | **(m)** Number of patented technologies first became known to the TC Chapter on or after the day of the issuance of this Letter Ballot | **Postpone assessment of such patented technologies to be performed at the next scheduled TC Chapter meeting.** |
| **#****Fill number** | **(n)** Number of patented technologies first became known to the TC Chapter before the day of the issuance of this Letter Ballot | **GO TO IX (a2)** |

**IX(a2) Assessment of disclosed patented technologies**

|  |  |
| --- | --- |
| **Disclosed patented technology #1** (*Brief description, e.g., patent title and number*): | **Date of Assessment (If different from the date of Letter Ballot adjudication)**MM/DD/YYYY |
| Is disclosed patented technology #1 found to be “might be material” to the Standard/Safety Guideline? |  | YES(It is a PMPT) | Is the use of this PMPT technically justified? |  | **YES**  | **PROCEED to assess NEXT one, or****if this is the last one, GO TO IX(a3)**  |
|  | **NO** | **The Document is failed and returned to the TF**  |
|  | NO | No further action is needed for patented technology #1 |

*This table is needed for each disclosed patented technology.*

**IX(a3) LOA status check of PMPT of which inclusion assessed to be justified**

|  |
| --- |
| **LOA Status of PMPT #1**  |
| Has an LOA for this patented technology been received from every owner ? |  | YES | **PROCEED to check NEXT one, or if this is the last one, GO TO** **IX(b)** |
|  | NO | MOTION |  | Ask ISC for special permission to publish. |
|  | Quit activity. | **The Document is failed and returned to the TF** |
|  | Wait for LOA  | **PROCEED to check NEXT one, or if this is the last one, GO TO** **IX(b1)** |
|  | **Motion by/ 2nd by** | Name (Company)/Name (Company) |
| **Discussion** | XXXX |
| **Vote** | XX **Y**-XX **N**; Motion passed (or failed) |

*This table is needed for each PMPT of which inclusion assessed to be justified.*

**IX(b1) Total numbers of copyrighted items to be dealt with**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#****Fill number**  | **(o)** Known copyrighted items that are used or reproduced to the Standard/Safety Guideline |  | **o > 0**There is at least one known copy righted items that might be relevant to the Standard/Safety Guideline | **GO TO IX (b2)** |
|  | **o = 0**There is no disclosed copyrighted item | **GO TO IX (c)** |

**IX(b2) Assessment of disclosed copyrighted items**

|  |
| --- |
| **Disclosed copyrighted item #1** (*Brief description of its use in the Document*): |
| Is disclosed copyrighted item #1 used or reproduced in the Standard/Safety Guideline?  |  | YES | Is the use/reproduction of this copyrighted item technically justified? |  | YES  | **PROCEED to assess NEXT one, or****if this is the last one, GO TO IX(b3)**  |
|  | NO | **The Document is failed and returned to the TF**  |
|  | NO | No further action is needed for copyrighted item #1 |

*This table is needed for each disclosed copyrighted item.*

**IX(b3) Copyright release status check of copyrighted item of which inclusion assessed to be justified**

|  |
| --- |
| **Copyright release Status of copyrighted item #1**  |
| Has the copyright release been received from its owner ?. |  | YES | **PROCEED to assess NEXT one, or****if this is the last one, GO TO IX(c)** |
|  | NO | MOTION |  | Ask ISC for special permission to publish. |
|  | Quit activity. | **The Document is failed and returned to the TF** |
|  | Wait for copyright release letter  | **PROCEED to check NEXT one, or if this is the last one, GO TO** **IX(c)** |
|  | **Motion by/ 2nd by** | Name (Company)/Name (Company) |
| **Discussion** | XXXX |
| **Vote** | XX **Y**-XX **N**; Motion passed (or failed) |

*This table is needed for each copyrighted item of which use/reproduction assessed to be justified.*

**IX(c) Assessment of disclosed (identified) trademark**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Is there any trademark in the Standard/Safety Guideline?  |  | YES | Is every instance of trademark use technically justified? |  | YES  | **GO TO** IX(d)  |
|  | NO | **The Document is failed and returned to the TF**  |
|  | NO | **GO TO IX(d)** |

**IX(d) IP check completion condition check**

|  |  |  |  |
| --- | --- | --- | --- |
| The co-chair checks if any Patented Technologies first become known to the TC Chapter on or after the day of the issuance of this Letter Ballot?i.e., m>0 in IX(a1) |  | YES | **Sections IX(a2) and IX(a3) shall be completed and recorded for such patented technologies at next scheduled meeting of the TC Chapter. Until then, the TC Chapter shall NOT go to** X(making motion to pass/fail this Document) **(see *Regulations* ¶ 16.4.1.2)** **Until then this Letter Ballot Review is on hold.**  |
|  | NO | **GO TO X** |

X. Action for This Document

|  |  |  |
| --- | --- | --- |
| **Motion** **(Check all applicable items)** | **x** | Line item(s) [1] 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. |
| **x** | Line item(s) [2], [3] and [4] 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** | By: Tom Barbieri / Cree, Inc.Second: Albert Fuchigami / PEER Group Inc. |
| **Discussion** | Hold off on Line Item 1 until other updates ready. |
| **Vote** | 5 **Y**-0 **N** |
| **Final Action** | x | Motion passed |
|  | Motion failed  |

Note: If the use of PMPT or copyrighted item is justified by the TC Chapter, LOA or release form must be received before publication can proceed.