Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: Japan
Global Technical Committee: Metrics
TC Chapter Cochairs: Mitch Sakamoto / ZAMA Consulting
Standards Staff: Michelle Sun / Chie Yanagisawa

	Scheduled in Background Statement	Actual
Date	4/1/2020	9/4/2020
Location	Milpitas, CA/USA	SEMI Japan office, Tokyo, Japan
Reason for Change of Date and/or Location (if changed)	NA Metrics Committee was unable to meet face-to-face due to the COVID-19 pandemic. The ballot underwent locale transfer and was approved by GCS on 7/7/2020.	

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

I. Document Number and Title

Document Number	Document Title
6578	**Revision to SEMI E10-0814[E] SPECIFICATION FOR DEFINITION AND MEASUREMENT OF EQUIPMENT RELIABILITY, AVAILABILITY, AND MAINTAINABILITY (RAM) AND UTILIZATION**

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):

Voting Interest:	Returned Votes		Distribution		Return Rate	
Letter Ballot	44	÷	62	=	71.0%	≥60%
Intercommittee Ballot	0					
Voting Interest Reject(s)	1		Total Voters with Rejects		1	
Voting Interest Accept(s)	34					

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

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: Safety Guru)
Voter Reject 1 (Voter: Eric Sklar / Safety Guru)
Negative 1

<table>
<tr>
<td rowspan="4">Negative</td>
<td rowspan="2">Referenced Section/ Paragraph</td>
<td colspan="3">*TF/TC Chapter to fill in, including text in the ballot if necessary.</td>
</tr>
<tr>
<td colspan="3">5.2.7 continuous downtime event — a downtime event starts when an equipment system transitions into a downtime state from an uptime state or the nonscheduled state (NST). For example, a transition from the productive state (PRD) to a downtime state starts a continuous downtime event. A transition from a scheduled downtime state (SDT) to an unscheduled downtime state (UDT), or vice versa, stays in a continuous downtime event.</td>
</tr>
<tr>
<td rowspan="2">Negative Text</td>
<td colspan="3">*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.</td>
</tr>
<tr>
<td colspan="3">Rewrite to clarify whether this is defining an "event" as a step change of zero duration or as a period of non-zero duration.
Reason/Justification: The proposed text says that a "continuous downtime event "starts" under certain circumstances, but not when it "ends".</td>
</tr>
<tr>
<td colspan="2">TF input (optional)</td>
<td colspan="3">Agreed that a significant change is needed to this definition.</td>
</tr>
<tr>
<td colspan="2" rowspan="2">Withdrawal (check one)</td>
<td>X</td>
<td>No Negative withdrawal made by Voter.</td>
<td>GO TO "Related" subsection</td>
</tr>
<tr>
<td></td>
<td>Withdrawal document received by Standards staff on MM/DD/YYYY.</td>
<td>GO TO "Final" subsection → (A)</td>
</tr>
<tr>
<td rowspan="11">Related</td>
<td rowspan="3">Motion and Reason (check one)</td>
<td>X</td>
<td colspan="2">'Related' is mutually agreed upon. (Needs no motion.)</td>
<td>GO TO "Persuasive" subsection</td>
</tr>
<tr>
<td></td>
<td colspan="3">Negative is not related. (Needs ≥2/3 votes to pass.)</td>
</tr>
<tr>
<td></td>
<td>Reason</td>
<td colspan="2">XXXX</td>
</tr>
<tr>
<td>Motion by/ 2nd by</td>
<td colspan="4">Name (Company)/Name (Company)</td>
</tr>
<tr>
<td>Discussion</td>
<td colspan="4"></td>
</tr>
<tr>
<td rowspan="3">Result of Vote (check one)</td>
<td colspan="4">XX Y-XX N; Motion passed/failed.</td>
</tr>
<tr>
<td></td>
<td colspan="2">[Negative is not related.] < 2/3</td>
<td>GO TO "Persuasive" subsection</td>
</tr>
<tr>
<td></td>
<td colspan="2">2/3 ≤ [Negative is not related.]</td>
<td>GO TO "Final" subsection → (B)</td>
</tr>
<tr>
<td rowspan="3">Persuasive</td>
<td rowspan="3">Motion and Reason (check one)</td>
<td>X</td>
<td colspan="3">Negative is related and persuasive. (Needs >1/3 votes to pass.)</td>
</tr>
<tr>
<td></td>
<td colspan="3">Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)</td>
</tr>
<tr>
<td></td>
<td>Reason</td>
<td colspan="2">TF agreed that a significant technical change is needed to this definition to specify when the continuous downtime event ends. The TF also agreed that there are several other technical changes needed based on other Negatives as well as new content not contained in this ballot that needs to be added.</td>
</tr>
<tr>
<td>Motion by/ 2nd by</td>
<td colspan="4">David Bouldin (Fab Consulting) / Supika Mashiro (TEL)</td>
</tr>
<tr>
<td>Discussion</td>
<td colspan="4">None</td>
</tr>
</table>

	Result of Vote (check one)						
	2 **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.	
Result of Vote (check one)	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.	
Result of Vote (check one)	90% ≤ [Agree to incorporate.]	**GO TO "Final" subsection → (F)**
	[Disagree to incorporate.]>10%	**GO TO "Final" subsection → (E)**

Not Significant

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)

	It is mutually agreed upon to term the Negative "not significant".	**GO TO "Final" subsection → (D)**

Use of "Not significant finding option" (check one)		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.		

This table is needed for each Negative.

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

This table is needed for each Voting Interest Reject.

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* ¶ 9.6.1.4.5.2)

IV. Other Technical Issues
None

V. Comments
None

VI. Editorial Changes Other than Those Voted on in § V
None

VII. Approval Conditions Check
There is no need to check these items.

VIII. Safety Check
There is no need to check this item.

IX. Intellectual Property (IP) Check
There is no need to check this item.

X. Action for This Document

<table>
<tr><td rowspan="5">Motion</td><td></td><td>This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.</td></tr>
<tr><td></td><td>This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.</td></tr>
<tr><td></td><td>This Document 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.</td></tr>
<tr><td>X</td><td>This Document failed TC Chapter review and will be returned to the TF for rework.</td></tr>
<tr><td></td><td>This Document failed TC Chapter review and work will be discontinued.</td></tr>
<tr><td colspan="2">Motion by/
2nd by</td><td>David Bouldin (Fab Consulting) / Supika Mashiro (TEL)</td></tr>
<tr><td colspan="2">Discussion</td><td>None</td></tr>
<tr><td colspan="2">Vote</td><td>2 Y-0 N</td></tr>
<tr><td colspan="2" rowspan="2">Final Action</td><td>X</td><td>Motion passed</td></tr>
<tr><td></td><td>Motion failed</td></tr>
</table>

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.