

# Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: **North America**

Global Technical Committee: **3D Packaging & Integration**

TC Chapter Cochairs: **Bill Kerr/Evergreen Enhancement, Chris Moore/Covalent Metrology, Sesh Ramaswami/ Applied Materials**

Standards Staff: **Laura Nguyen**

	Scheduled in Background Statement	Actual
Date	04/02/2020	07/10/2020
Location	SEMI HQ, Milpitas, CA/USA	SEMI Japan Office, Tokyo, Japan
Reason for Change of Date and/or Location (if changed)	Force majeure caused by the corona virus.	

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

## I. Document Number and Title

Document Number	Document Title
6591	Revision to SEMI 3D20-0719, Specification for Panel Characteristics for Panel Level Packaging (PLP) Applications

## 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 Vote	Distributio	Return Rate	
Letter Ballot	68	÷ 107	= 63.6%	≥60%
Intercommittee Ballot	26			
Voting Interest Reject(s)	2	Total Voters with Rejects		2
Voting Interest Accept(s)	56			

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

### III. Rejects

#### Voting Interest Reject 1 (Voting Interest Name: NIST)

#### Voter Reject 1 (Voter: Richard Allen/NIST)

#### Negative 1

<b>Negative</b>	Referenced Section/ Paragraph	<b>*TF/TC Chapter to fill in, including text in the ballot if necessary.</b>																								
	Negative Text	<p><b>Table A1-1, row 2-3.3</b></p> <p><b>*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.</b></p> <p><b>This isn't clear and doesn't really conform to the entry in Table 1 of the main text, limiting the mass to 4 kg</b></p> <p>Reason for REJECT vote:</p> <p>1. Table A1-1, row 2-3.4, as balloted reads as follows:</p> <table border="1" style="margin-left: 40px;"> <tr> <td style="width: 100px;">2-3.34</td> <td style="width: 150px;">Mass, Single unprocessed Panel</td> <td style="width: 100px;"><input type="checkbox"/> Specify: <u>2.2kg</u></td> </tr> <tr> <td></td> <td>Mass, single processed panel</td> <td><input type="checkbox"/> Specify: _____</td> </tr> </table> <ul style="list-style-type: none"> <li>This isn't clear and doesn't really conform to the entry in Table 1 of the main text, limiting the mass to 4 kg</li> <li>I would suggest this be replaced with the following:</li> </ul> <table border="1" style="margin-left: 40px;"> <tr> <td style="width: 50px;">2-3.4</td> <td style="width: 150px;">Mass, single panel</td> <td style="width: 100px;"><input type="checkbox"/> Unprocessed</td> <td style="width: 100px;"></td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> Processed</td> <td></td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> 2.2 kg</td> <td></td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> Other (specify, but £ 4 kg) _____</td> <td></td> </tr> </table>				2-3.34	Mass, Single unprocessed Panel	<input type="checkbox"/> Specify: <u>2.2kg</u>		Mass, single processed panel	<input type="checkbox"/> Specify: _____	2-3.4	Mass, single panel	<input type="checkbox"/> Unprocessed				<input type="checkbox"/> Processed				<input type="checkbox"/> 2.2 kg				<input type="checkbox"/> Other (specify, but £ 4 kg) _____
2-3.34	Mass, Single unprocessed Panel	<input type="checkbox"/> Specify: <u>2.2kg</u>																								
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2-3.4	Mass, single panel	<input type="checkbox"/> Unprocessed																								
		<input type="checkbox"/> Processed																								
		<input type="checkbox"/> 2.2 kg																								
		<input type="checkbox"/> Other (specify, but £ 4 kg) _____																								
<b>Withdrawal (check one)</b>	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.		<b>GO TO "Related" subsection</b>																						
	<input type="checkbox"/>	Withdrawal document received by Standards staff on <u>MM/DD/YYYY</u> .		<b>GO TO "Final" subsection → (A)</b>																						
<b>Related</b>	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. <b>(Needs no motion.)</b>		<b>GO TO "Persuasive" subsection</b>																						
	<input type="checkbox"/>	Negative is not related. <b>(Needs ≥2/3 votes to pass.)</b>																								
<b>Persuasive</b>	<input checked="" type="checkbox"/>	Negative is related and persuasive. <b>(Needs &gt;1/3 votes to pass.)</b>																								
	<input type="checkbox"/>	Negative is related and not persuasive. <b>(Needs ≥2/3 votes to pass.)</b>																								
	<input type="checkbox"/>	Reason	XXXX																							
	<input type="checkbox"/>	Motion by/ 2 <sup>nd</sup> by	Hiroyuki Shida (Consultant) / Kiyotaka Chiba (Tokyo Seimitsu)																							
	Discussion	None																								
<b>Result of Vote (check one)</b>	<input checked="" type="checkbox"/>	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? <b>(check one)</b>	<input type="checkbox"/>	<b>GO TO "Address by Technical Change Option" subsection</b>																					
	<input type="checkbox"/>	[Negative is related and not persuasive.] < 2/3		<input checked="" type="checkbox"/>	<b>GO TO "Final" subsection → (E)</b>																					

		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		
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	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: Advantest)**

**Voter Reject 1 (Voter: Masayoshi Ichikawa)**

**N/A – Document Fails**

**IV. Other Technical Issues**

**None**

**V. Comments**

**None**

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

**None**

**VII. Approval Conditions Check**

**N/A – Document Fails**

**VIII. Safety Check**

**N/A – Document Fails**

**IX. Intellectual Property (IP) Check**

**N/A – Document Fails**

## X. Action for This Document

<b>Motion</b>	<input type="checkbox"/>	This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
	<input type="checkbox"/>	This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.
	<input type="checkbox"/>	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.
	<input checked="" type="checkbox"/>	This Document failed TC Chapter review and will be returned to the TF for rework.
	<input type="checkbox"/>	This Document failed TC Chapter review and work will be discontinued.
<b>Motion by/ 2<sup>nd</sup> by</b>	Hiroyuki Shida (Consultant) / Kiyotaka Chiba (Tokyo Seimitsu)	
<b>Discussion</b>	None	
<b>Vote</b>	3 Y-0 N	
<b>Final Action</b>	<input checked="" type="checkbox"/>	Motion passed
	<input type="checkbox"/>	Motion failed

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