

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

Region/Locale: **North America**

Global Technical Committee: **EH&S**

TC Chapter Cochairs: **Chris Evanston (Salus Engineering), Sean Larsen (LAM Research), Bert Planting (ASML)**

Standards Staff: **Kevin Nguyen**

	Scheduled in Background Statement	Actual
Date	May 6, 2021	May 6, 2021
Location	OVTCCM	OVTCCM
Reason for Change of Date and/or Location (if changed)		

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

Document Information

I. Document Number, Title, Lists of Line Items

Document Number 6696	Document Title Line Item Revision to SEMI S2-0818Ea, Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment (Re: Delayed Revision Related to Sections 18.6.3 and 18.7.5)
☞ ☐ Line Item 1	Line Item Title Delayed Revisions related to Sections 18.6 and 18.7

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:

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	72	÷ 119	= 60.5%	≥60%
Intercommittee Ballot	24			
Voting Interest Reject(s)	1	Total Voters with Rejects		1
Voting Interest Accept(s)	50			

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

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: TEL)

Voter Reject 1 (Voter: Lauren Crane (TEL))

Negative 1

	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.
		LI-1
Negative	Negative Text	<p>*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.</p> <p>Technical Negative</p> <p>This ballot does not sufficiently represent the state of the S2 document that will be present if the ballot is accepted.</p> <p>This ballot is titled as a line item revision to “S2-0818Ea” and indicates Delayed Revisions related to Section 18.6 and 18.7 as they appear in that edition of S2 by means of a single new delayed revision section X with effectivity on July 2021. This ballot works fine in that context and I fully support it.</p> <p>HOWEVER</p> <ol style="list-style-type: none"> 1. Ratification ballot R6593 has passed resulting in a document that will be version S2-0818Xb, (X is probably equal to E) and so this ballot should have been a revision to S2-0818Xb. 2. The version of paragraph 18.7.5 shown in the ballot is not the correct (most recent version) of that paragraph. Therefore the ‘after DR action’ information is incorrect. 3. This ballot makes no reference to the passing of R6593 to help readers understand that the image present by this ballot is not showing the latest committee approved version of the standard (for whatever reason) 4. It seems quite feasible that the changes made by X6593 to section 7.5 that were not displayed in this ballot could impact decisions about whether this ballot is accepted or not – particularly the sentence relating to ‘delivery’ which has a conceptual tie to the ‘shipment’ proposed for deletion. <p>====</p> <p>Re-issue the ballot with a reasonable and complete expression of what S2 will look like if ballot passes.</p>

TF input (optional)			
Withdrawal (check one)		No Negative withdrawal made by Voter.	GO TO "Related" subsection
	x	Withdrawal document received by Standards staff on May/05/2021.	GO TO "Final" subsection → (A)
Final	(check if applicable)	x (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)
		(E)	Related and persuasive and not addressed by technical change
	(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)	
1	Number of Negatives withdrawn	(h)	
#	Number of Negatives found not related	(i)	
#	Number of Negatives found not significant	(j)	
#	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 ¶ 9.6.1.4.5.2)

IV. Other Technical Issues

None

V. Comments

V- (i) Voters' Comments

Commenter 1 (George Rutherford / Safety Related Control Systems) - Comment 1

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Co	IEC 62061 (FS Machinery) should be added to the referenced standards in lieu of IEC 61508 which is FS Generic. Sector standards take precedence over generics.	
	The TC Chapter agreed to do one of the following actions.	
Action	*No motion is required in this step.	
	<input type="checkbox"/>	Already addressed by Commenter #, Comment #
	<input checked="" type="checkbox"/>	No further action was taken by the TC Chapter. [the presiding chair asked if there is any objection for checking this check box, and there was none]
	<input type="checkbox"/>	Refer to the TF for more consideration.
	<input type="checkbox"/>	New Business
	<input type="checkbox"/>	Editorial Change

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

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.

		Accepts		(Accepts + Valid Rejects)					
Approval Rate	=	50	/	50	=	100.0%		≥90%	

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.

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		This is not a Safety Document , when all safety-related information is removed, the Document is still technically sound and complete. (<i>Regulations ¶ 8.7.1</i>)
	x	This is a Safety Document , when all safety-related information is removed, the Document is not technically sound and complete. (<i>Regulations ¶ 8.7.2</i>)
	x	Safety Checklist (<i>Regulations ¶ 15.3</i>) is complete and has been included with the Document throughout the balloting process. (<i>Regulations ¶ 15.1.2</i>)
Motion by/2nd by		By: Andrew Petraszak / TEL Second: Lauren Crane / TEL
Discussion		None
Vote		15 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 <i>Regulations ¶ 16.3.1.1</i>) to the Standard or Safety Guideline; or, any copyrighted items or trademarks that are used/reproduced (see <i>Regulations ¶ 16.4.1.2</i>) in the Standard or Safety Guideline. (Also see, <i>Regulations § 8.8</i>)	
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.

Discussion:

The question was raised in hypothetical situation if someone is indeed aware of a patented, copyrighted item or trademark that is used or reproduced in the document, but it was already addressed in the past.

Supika Mashiro: The purpose of this question is also to ask attendees if someone wants to remove it from the document.

Sean Larsen: What if they want to remove it, how do we address it? The question for this portion in the SVM software can be further improved.

Supika Mashiro: The IP check question will need to be reexamined to cover all possible scenarios for discussion at the next Regs SC meeting.

Sean Larsen: Reminded those who have not answer to make their selections (yes or no).

Supika Mashiro: All attendees need to answer yes or no.

Eric Sklar: Per Regs 8.8, it only states the presiding chair shall ask all participants. Whether or not an attendee answers this question is another issue.

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.
		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	By: Edward Karl / Applied Materials, Inc. Second: Andrew Petraszak / TEL	
Discussion	Eric Sklar: This motion is not needed. SEMI staff will forward the A&R file to ISC for review. Bert Planting: This issue was discussed in the past. At least, the motion should be able to be modified to reflect that the TC Chapter agrees to forward. Supika Mashiro: Per Regs 9.8.1, this motion is required to make final decision on entire document to pass and forward to ISC A&R.	
Vote	13 Y-1 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.