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	4/2/2020	12/17/2020
Location	Milpitas, CA	OVTCCM
Reason for Change of Date and/or Location (if changed)	COVID-19 Pandemic	

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

Document Information

I. Document Number, Title, Lists of Line Items

Doc	ument Number	Document Title			
6594		LINE ITEM REVISIONS OF SEMI S14-1016			
		SAFETY GUIDELINES FOR FIRE RISK ASSESSMENT			
		AND MITIGATION FOR SEMICONDUCTOR			
		MANUFACTURING EQUIPMENT			
	Line Item 1	Line Item Title			
ist Lin	Line item i	Changes to Title and Concomitant text			
fof	Line Item 2	Changes to Risk Assessment Criteria			

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	69	÷	115	=	60.0%	≥60%	
Intercommittee Ballot	36						
Voting Interest Reject(s)	1		Total	Total Voters with Rejects			
Voting Interest Accept(s)	48	Ì					

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 and Safety Guru)

Negative 1

z	Referenced Section/ Paragraph	essary.										
Negative	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. Negative: Do not make the proposed change to the title. Reason/Justification: This document contains more than one "guideline", so the change would be from a title that does correctly reflects the contents to a title that does not.										
TF i	input (optional)	The vote was 6-1 in favor	for finding not persuasive in th	e task force meeting.								
	Withdrawal	x No Negative withdraw	ral made by Voter.	GO TO "Related" subsection								
	(check one)	Withdrawal document MM/DD/YYYY.	Withdrawal document received by Standards staff on MM/DD/YYYY.									
	Motion and	* 'Related' is mutually a	'Related' is mutually agreed upon. (Needs no motion.)									
	Motion and Reason	Negative is not related. (Needs ≥2/3 votes to pass.)										
	(check one)	Reason	xxxx									
Rel	Motion by/ 2 nd by	Name (Company)/Name (
Related	Discussion											
		XX Y- XX N ; Motion passed	d/failed.									
	Result of Vote (check one)			GO TO "Persuasive" subsection								
	(5.155).	2/3 ≤ [Negative is not	2/3 ≤ [Negative is not related.]									
Persuasi ve	Motion and Reason	Negative is related an	d persuasive. (Needs >1/3 votes	to pass.)								
uasi e	(check one)	x Negative is related an	d not persuasive. (Needs ≥2/3 vot	tes to pass.)								

				Re	eason			use the task force e amount of time			nmittee have already spent an	
		otio 2 nd	n by/ by	Clifton	Clifton Brick (KLA) / Sean Larsen (Lam Research Corporation)							
	Di	scu	ssion	None								
				5 Y -1 N ; Motion passed								
	Ros	ault i	of Vote			e is related and ve.] > 1/3	Is a technical change recommended?		Y	GO TO "Address by Technical Change Option" subsection		
		(check one) [N				e is related and ve.] < 2/3		(check one)		N	GO TO "Final" subsection → (E)	
				x an	d not	egative is relate persuasive.] <	GO TO "Final" s	subsec	ctio	n → (C)		
	<u> </u>			an	d not	legative is rela persuasive.]	ated	GO TO "Not Sig	nifica	nt F	inding Option" subsection	
		nal				ndations umber and at	least o	one full sentence	e are r	equ	ired in "FROM" and "TO"	
			FROM:	Section	/Para	graph XXX						
		1	TO: Se	ction/Paragraph xxx								
	Tech		Justific	ation (If necessary)								
Addre	Technical Changes		FROM:	Section	ı/Para	graph XXX						
Address by Tech	nanges	2	TO: Se	ection/Paragraph xxx								
			Justific	ation (I	f nece	essary)						
nical Change Option	Motic	on			Neg	ative is addres	sed by	the technical cha	ange(s).		
ange	Motio	on k	y/2 nd by	,	Nam	ne (Company)/	Name	(Company)				
Opt	Disc	uss	ion									
ion					XX	Y-XX N; Motion	n pass	ed/failed.				
		Result of Vote (check one)				2/3 ≤ [Negativ change(s).]	/e is ac	ddressed by the to	echnica	al	GO TO "Incorporation of the Technical Change" subsection	
		_				[Negative is not change(s).] <		ressed by the tecl	nnical		GO TO "Final" subsection → (E)	
	Ī	Мо	tion		To i			nical change(s).				
	n o	Мо	tion by/	2 nd by	Nam	ne (Company)/	Name	(Company)				
	Incorporatio n of the	Dis	cussion	1								
	ō				XX	Y-XX N; Motion	n pass	ed/failed.				

		Result o	f Vote	е	90% ≤ [A	Agree to incorporate.]	GO TO "Final" subsection → (F)			
		(check	one)		[Disagree	e to incorporate.]>10%	GO TO "Final" subsection → (E)			
Z						C Chapter finds a Negative not pers g on the action". (<i>Regulations</i> ¶ 9.6.				
ot Siç	Us	e of "Not		It is mut significa		ed upon to term the Negative "not	GO TO "Final" subsection → (D)			
Not Significant Finding Option	siç findi	gnificant ng option" leck one)		It is mut "significa		ed upon to term the Negative	GO TO "Final" subsection → (C)			
ŧΕ				Whether or not the Negative is "not significant" is decided by a vote.						
ndii	ľ	Motion	The I	Negative is "not significant".						
ng Op		otion by/ 2 nd by	Nam	e (Comp	(Company)/Name (Company)					
tion	Vote				⟨N ; Motio	on passed with simple majority	GO TO "Final" subsection → (D)			
		Vote		XX Y -XX	⟨N ; Motio	on failed with simple majority	GO TO "Final" subsection → (C)			
				(A)	Withdrawn (counted under h in disp	osition)			
				(B)	Not related (counted under i in dispe	sposition)			
	(0	check if	X	(C)	Related and not persuasive (significar	cant)			
Final		plicable)		(D)	Not significant (counted under j in di	sposition)			
<u>a</u>				(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS			
				(F)	Addressed by technical change (cour	nted under k disposition)			
		check if plicable)		Comme	nt genera	ted. See Section V-(ii) Comment # X.				

Disposition of Voting Interest Reject 1

Check only when the Document has not been failed.

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

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

Note: TC Chapter may choose to address a technical issue that is not part of a Negative received on a Letter Ballot (i.e., a Comment or a reason not addressed by a Vote response) by handling it as a Negative and finding it related and technically persuasive. The TC Chapter may then fail the Document or address such technical issue by using the procedure defined in *Regulations* § 9.6.1.4.3 to make a technical change to the Document. (*Regulations* ¶ 9.6.1.4.2.5)

None

V. Comments

V- (i) Voters' Comments

None

V-(ii) Comments Created by Handling Negative

None

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

Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.

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	=	48	/	49	=	98.0%	≥90%

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

Note: See Regulations § 9.6.2 for further information.

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.

36	÷	115	=	60.0%	≥60%
36					
0		Total	Vote	rs with Rejects	0
48					
	0 48	48			0 Total Voters with Rejects 48

III. Rejects None

IV. Other Technical Issues None

V. Comments

V- (i) Voters' Comments
Commenter 1 (Supika Mashiro/TEL) - Comment 1

	enter i (oupika Mashiro/TEE) - comment i										
Co	*TF	*TF/TC Chapter to fill in section/paragraph #, if necessary.									
Comment	pote	It seems ineffective to evaluate fire risks through harm to human rather than to directly evaluate potential magnitude of damage on properties (e.g., equipment or its subsystem), as most of the cases fire would affect human safety through burning of properties.									
	The	TC Chapt	er agreed to do one of the following actions.								
	*No motion is required in this step.										
A		Already addressed by Commenter #, Comment #									
Action	Х	No further	further action was taken by the TC Chapter.								
7		Refer to the	Refer to the TF for more consideration.								
		New Busin	ness								
		Editorial C	hange								
		Options	Case 1: No vote in this section:								
		for editorial	To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.								
		change (check	Case 2: Voted in this section:								
		one)	Original section number and at least one full sentence are required in "FROM" and "TO" fields.								

	1	FROM: Sec	ction/Paragraph xxx
E		TO: Section	n/Paragraph xxx
ditorial		Justificatio	on (If necessary)
Editorial Changes		FROM: Sec	ction/Paragraph xxx
S	2	TO: Section	n/Paragraph xxx
		Justificatio	on (If necessary)
М	otion	1	To approve above editorial change(s)
М	otion	by/2 nd by	Name (Company)/Name (Company)
Di	iscus	sion	XXXX
V	ote		XX Y-XX N; Motion passed/failed.

This table is needed for each Comment accompanied a Vote

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

Χ

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.

Checks for Entire Document Including All Approved Line Items

VIII. Safety Check

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

			Safety Document , when all safety-related information is removed, the Document lly sound and complete. (<i>Regulations</i> ¶ 8.7.1)					
Motion	This is a Safety Document, when all safety-related information is removed, the Document is technically sound and complete. (Regulations ¶ 8.7.2) Safety Checklist (Regulations ¶ 15.3) is complete and has been included with the Document is the same of the sam							
	Motion by/2 nd by			Eric Sklar (Safety Guru, LLC) / Edward Karl (Applied Materials, Inc.)				
	Discussion			None				
Vote 7 Y-0 N; Motion passed				7 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 <u>applies to the entire Standard or Safety Guideline</u> 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</i> ¶ 16.3.1.1) to the Standard or Safety Guideline; or, any copyrighted items or trademarks that are used/reproduced (see <i>Regulations</i> ¶ 16.4.1.2) in the Standard or Safety Guideline. (Also see, <i>Regulations</i> § 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		Yes, at least one of them is a patented technology	GO TO IX (a) "Patented Technology" subsection				
			technology?		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	(I) Known Patented Technology that might be relevant to	Fill	(m) Number of patented technologies first became known to the TC Chapter on or after the day of the issuance of this Letter Ballot	performed at the next
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the Standard/Safety Guideline	Fill	(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)
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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		-		Is the use of this PMPT technically		YES	PROCEED to assess NEXT one, or if this is the last one, GO TO IX(a3)
technology #1 found to be "might be material" to the Standard/Safety Guideline?			justified'	•		NO	The Document is failed and returned to the TF
		NO	No furth	er action is needed for patented technology #1			d 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									
		YES		PROCEED to check NEXT one, or if this is the last one, GO TO IX(b)					
Has an LOA for this patented technology		NO	ЭM		Ask ISC for spe	ecial permission to publish.			
been received from every owner?			MOTION		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)			
			Mot	tion	by/ 2 nd by	Name (Company)/Name (Company)			
				cuss	sion	XXXX			
				е		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

	()		 tou iteme to be usuit with	
	# Fill	(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		YES	Is the use/reproduction of		YES	PROCEED to assess NEXT one, or if this is the last one, GO TO IX(b3)
item #1 used or reproduced in the Standard/Safety Guideline?			this copyrighted item technically justified?		NO	The Document is failed and returned to the TF
		NO	No further action is nee	eded 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

Stiffed										
Copyright release Status of copyrighted item #1										
		YES		PROCEED to assess NEXT one, or if this is the last one, GO TO IX(c)						
Has the copyright		NO	MC		Ask ISC for special po	ermission to publish.				
release been received from its owner?.			MOTION		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)				
			Мо	tion	by/ 2 nd by	Name (Company)/Name (Company)				
			Dis	cuss	ion	XXXX				
			Vot	е		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

	,			YES	GO TO IX(d)	
Is there any trademark in the Standard/Safety Guideline?	YES	Is every instance of trademark use technically justified?		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

ar	x	Line item(s) [1] and [2] passed TC Chapter review as balloted and will be forwarded to the ISC SC for procedural review.									
M (Ch			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.								
Motion (Check all applicable items)		edito	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.								
ıs)		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	y/ 2n	d by	Edward Karl (Applied Materials, Inc.) / Andrew Petraszak (TEL)								
Discu	ssion	1	None								
Vo	te	7 Y-0 N									
Einal A	\ atia		x Motion passed								
Final Action		П	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.