Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: Japan
Global Technical Committee: EHS
TC Chapter Cochairs: Hidetoshi Sakura/Intel, Supika Mashiro/Tokyo Electron, Moray Crawford/Hatsuta Seisakusho
Standards Staff: Junko Collins

	Scheduled in Background Statement	Actual
Date	12/18/2015	12/18/2015
Location	Conference Tower, Tokyo Big Sight, Tokyo	Conference Tower, Tokyo Big Sight, Tokyo
Reason for Change of Date and/or Location (if changed)		

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

I. Document Number and Title

Document Number	Document Title
5947	Revision to SEMI S23-0813, with title change from "GUIDE FOR CONSERVATION OF ENERGY, UTILITIES AND MATERIALS USED BY SEMICONDUCTOR MANUFACTURING EQUIPMENT" to "GUIDE FOR ENERGY, UTILITIES AND MATERIALS USE EFFICIENCY OF SEMICONDUCTOR MANUFACTURING EQUIPMENT"

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* ¶ 9.7.1.1)

Voting Tally (with example values):

Voting Interest:	Returned Votes		Distribution		Return Rate	
Letter Ballot	54	÷	90	=	60.0%	≥60%
Intercommittee Ballot	24					
Voting Interest Reject(s)	3		Total Voters with Rejects			3
Voting Interest Accept(s)	45					

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

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.		
		Section 5.2.14 et al.		
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.		
		Change “energy” to “power” where the latter is physically correct. Reason/Justification: In this definition, and numerous other places throughout the document, “energy” is used when the physical quantity to which the word refers is “power”, which is energy per unit time. The distinction is physical, not just grammatical: a system in sleep mode for a year probably uses much more energy than a system in process mode for a second, but that’s not a reason not to have a sleep mode. For example, suppose a machine processes product only 20% of the time and consumes 10 kW in process mode and 4 kW in sleep mode. If the machine were in process mode all of the time, it would use 10 kW-years of energy per year. Implementing a sleep mode reduces the energy used to (20% of a year)*10 kW + (80% of a year)*4 kW = 2 kW-years + 3.2 kW-years = 5.2 kW-years. That’s about half the energy used without a sleep mode. However, the energy used in sleep mode is 160% of the energy used in process mode.		
TF input (optional)		Need to make technical change		
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: As the Negative points out Power is Energy use rate. Need to implement Technical Change as suggested	

	Motion by/ 2nd by	Gorge Hoshi(Tokyo Electron)/Ryosuke Imamiya (SCREEN Semiconductor Solutions)					
	Discussion						
	Result of Vote (check one)	10**Y**-0 **N**; Motion passed (vote by interest)					
			[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* ¶ 9.6.4.4.2)**				
	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.		

VIII. Safety Check

Note: See *Regulations* § 15 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. (*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		Name (Company)/Name (Company)
Discussion		XXXX
Vote		XX **Y**-XX **N**; Motion passed or failed

IX. Intellectual Property (IP) Check

Note: This Letter Ballot may cover all or part of a Standard or Safety Guideline. This IP check applies to the entire Standard or Safety Guideline. See *Regulations* § 16 for further information.

☐	The TC Chapter meeting chair asked those participating, if they were aware of any potentially material patented technology or copyrighted items* in the Standard or Guideline. (*Regulations* ¶ 8.8.1)		
	☐	No potentially material patented technology or reproduction of copyrighted items is known.	**GO TO SECTION X.**
	☐	Potentially material patented technology or reproduction of copyrighted items is known, but a Letter of Assurance (LOA) or copyright release letter for such items has been obtained or presented to the TC Chapter.	**GO TO SECTION X.**
	☐	Potentially material patented technology or reproduction of copyrighted items is known and use of such materials is technically justified by the TC Chapter, but an LOA or copyright release letter for some of the item(s) has NOT been obtained or presented to the TC Chapter.	
	Motion ☐	Ask ISC for special permission to publish.	
	Motion ☐	Quit activity.	
	Motion ☐	Wait for LOA for patented technology or release of copyrighted items.	
	Motion by/2nd by	Name (Company)/Name (Company)	
	Discussion	XXXX	
	Vote	XX **Y**-XX **N**	
	Final Action	☐	Motion passed
		☐	Motion failed

*** Note: Such potentially material patented technology or copyrighted items might have become known since the Standard or Safety Guideline was last reviewed, or might become relevant due to this Letter Ballot.**

X. Action for This Document

Motion		This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
		This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.
		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.
	X	This Document failed TC Chapter review and will be returned to the TF for rework.
		This Document failed TC Chapter review and work will be discontinued.

Motion by/ 2nd by	Gorge Hoshi (Tokyo Electron)/Ryosuke Imamiya (SCREEN Semiconductor Solutions)	
Discussion		
Vote	10 **Y**-0 **N (vote by interest)**	
Final Action	X	Motion passed
		Motion failed

Standards staff to record the result of the A&R procedural review here:

A&R		**Approved for publication**
		Approved pending acceptance of the Ratification Ballot
		Not approved
	Reason:	