Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: China

Global Technical Committee: Photovoltaic Materials

TC Chapter Cochairs: Guangchun Zhang/CanadianSolar, Jun Liu/CESI

StandardsStaff: Sophia Huang

	Scheduled in Background Statement	Actual
Date	04/18/2017	04/18/2017
Location	Evergreen Laurel Hotel Shanghai, No. 1136 Zuchongzhi Road, Pudong, Shanghai	Evergreen Laurel Hotel Shanghai, No. 1136 Zuchongzhi Road, Pudong, Shanghai
Reason for Changeof 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
5843	Revision of SEMI PV22-0716, Specification for
	Silicon Wafers for Use in Photovoltaic Solar Cells

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):

Returned Vote		Distributio		Return Rate	
55	÷	86	=	64.0%	≥60%
22					
1		Total Vot	ers	with Rejects	1
45					
	55 22 1	1	55 ÷ 86 22 1 Total Vote	55 ÷ 86 = 22 1 Total Voters	55 ÷ 86 = 64.0% 22 1 Total Voters with Rejects

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

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: Peter Wagner) Voter Reject1 (Voter: Peter Wagner /Peter Wagner Consulting) Negative 1

IVE	ative 1					
_	Referenced Section/Paragra ph	Tab	le 1			
Negative		сор	ied.	ve text (e.g., issue, justification and tolerances for wafer edge	,	
Ф	Negative Text	cha PV 2	mfer a fully covered by	the minimum to maximum ran change the current specificati	ge in the current version of	
TF	input (optional)					
Wit	hdrawal <mark>(check</mark>	×	No Negative withdrawa	ll made by Voter.	GOTO"Related" subsection	
	one)		Withdrawal document r MM/DD/YYYY.	GO TO "Final"subsection →(A)		
	Motion and	×			GO TO "Persuasive" subsection	
	Reason		Negative is not related.			
	(check one)		Reason	xxxx		
Reli	Motion by/ 2 nd by	Nam	ne (Company)/Name (Co	ompany)		
Related	Discussion					
		XXY	-XXN;Motion passed/fa	niled.		
	Result of Vote(check		[Negativeis not related.] <2/3	GOTO "Persuasive" subsection	
	one)		2/3≤ [Negative is not related.]		GO TO "Final" subsection →(B)	
Persuas ve	Motion and Reason		Negative is related and	persuasive.(Needs >1/3 votes to	o pass.)	
asi	(check one)	Х	Negative is related and not persuasive.(Needs ≥2/3 votes to pass.)			

			Reason	length order better revise of cutting the sp wafer promotion in PV development.	and diagonal is ± to regulate the war, so the tolerance of the diagonal is ± to regulate the war, so the tolerance of the diagonal tolerance of the	1mm fer s of wa nm, I ore a olera redu fers a fers a catio e, in mark	n and izes afer or responde appro- ction and r cture se the ons a orde	old tolerance of wafer edge d ±1.4mm, respectively. In and develop unified standard edge length and diagonal is ectively. With the development opriate size of silicon wafer is can be achieved by existing in tolerance can well regulate modules, and almost all of the rs have already been e is 0.75mm larger than before, the revenue of the PV industry also have been widely accepted for to comply with the there is a need to be revised for		
	Motion by/ 2 nd by	N an	nan Fu (LONGi)/ Z h	nixin Li (Lin	ton)					
	Discussion	None								
		56Y-0N;Motion passed								
	Result of Vote <mark>(check</mark>		[Negative is related persuasive.] >1/3 [Negative is related		Is a technical change recommended? (check one)		Y	GO TO "Address by Technical Change Option" subsection GO TO "Final" subsection		
	one)		persuasive.] <2/3 2/3≤ [Negative is re		GO TO "Final" s	uhee	octio	→(E)		
		X	not persuasive.] <9 90%≤ [Negative is	related	GO TO "Final" subsection →(C) ed GO TO "Not Significant Finding Option" subsection					
	This option can		and not persuasive		_			uasive by a vote equal to or		
7			the persons voting							
lot Siç	Use of "Not	X	It is mutually agree significant".	ed upon to	term the Negative	"not		GO TO "Final" subsection →(D)		
Not Significant Finding Option	significant finding option" (check one)		It is mutually agree "significant".	ed upon to	term the Negative			GO TO "Final" subsection →(C)		
ıt Fi	, , , , , , , , , , , , , , , , , , ,		Whether or not the	Negative i	s "not significant" i	is de	cide	d by a vote.		
ndiı	Motion	The	Negative is "not sig	nificant".						
ng Op	Motion by/ 2 nd by	Nan	nan Fu (LONGi)/ Z h	nixin Li (Lin	ton)					
tion	Vote	X	56Y-0N; Motion pa	ssed with	simple majority			GO TO "Final" subsection →(D)		
			XXY-XXN; Motion					GO TO "Final" subsection →(C)		
Fin al	(check if		(A)	Withdrawn	(counted under h	in d	lispo	osition)		
_ 2	applicable)		(B)	Not related	(counted under	i in c	dispo	osition)		

(C) Related and not persuasive (significant)									
	Х	(D)	Not significant(counted under j in disposition)						
		(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 genera	rated. See Section V-(ii) Comment #X.						

Neg	Negative 2								
	Referenced Section/Paragra	Tab	le 1						
Ne	ph								
Negative	Negative Text	сор	Original complete Negative text (e.g., issue, justification, suggestion) should be copied. 2. In addition, the current specifications in Table 1 are still in use. Therefore they						
			naddition, the current s not be removed from P		ii in use. Therefore they				
TF	nput (optional)								
Wit	hdrawal <mark>(check</mark>	×	No Negative withdrawal	made by Voter.	GOTO"Related" subsection				
	one)		Withdrawal document re MM/DD/YYYY.	eceived by Standards staff on	GO TO "Final"subsection →(A) GO TO "Persuasive"				
	Motion and	×	'Related' is mutually agr	Related' is mutually agreed upon. (Needs no motion.)					
	Reason		Negative is not related.(Needs ≥2/3 votes to pass.)						
	(check one)		Reason	xxxx					
Rela	Motion by/ 2 nd by	Nam	ne (Company)/Name (Co	mpany)					
Related	Discussion								
		XXY	/-XXN;Motion passed/fail	led.					
	Result of Vote(check	INIQUATIVALS NOT related 1 < 2/3		<2/3	GOTO "Persuasive" subsection				
	one)		2/3≤ [Negative is not related.]		GO TO "Final" subsection →(B)				
Persuas ve	Motion and Reason		Negative is related and p	persuasive.(Needs >1/3 votes to	p pass.)				
uasi	(check one)	х	Negative is related and not persuasive.(Needs ≥2/3 votes to pass.)						

			Reason	length order better revise of cut require cutting the sp wafer promound which chain, in PV development of the chain, and devel	n and diagonal is ± to regulate the war, so the tolerance ed to 0.25mm, 0.5rd ting technology, med, and the new to get technology. The reposition of war and solar cell mark total. dition, the normal value is beneficial to incomplete and these specifications. And these specifications of war and solar cell mark total.	e1mm Infer s Infer	n and izes afer or responde appro- ction and reture a size a ether ons a orde	old tolerance of wafer edge d±1.4mm, respectively. In and develop unified standard edge length and diagonal is ectively. With the development opriate size of silicon wafer is can be achieved by existing in tolerance can well regulate modules, and almost all of the rs have already been e is 0.75mm larger than before, the revenue of the PV industry also have been widely accepted er to comply with the mere is a need to be revised for		
	Motion by/ 2 nd by	N an	nan Fu (LONGi)/ Z h							
	Discussion	None								
		56Y-0N;Motion passed								
	Result of Vote(check		[Negative is related persuasive.] >1/3 [Negative is related		Is a technical change recommended? (check one)		Y	GO TO "Address by Technical Change Option" subsection GO TO "Final" subsection		
	one)		persuasive.] <2/3 2/3≤ [Negative is re		GO TO "Final" s	ubse	ectio	→(E) n →(C)		
		x	not persuasive.] <9 90%≤ [Negative is	related	` '					
	This ontion can		and not persuasive					uasive by a vote equal to or		
_			the persons voting							
lot Siç	Use of "Not	X	It is mutually agreed upon to term the Negative "not significant".					GO TO "Final" subsection →(D)		
Not Significant Finding Option	significant finding option" (check one)		It is mutually agree "significant".	ed upon to	term the Negative			GO TO "Final" subsection →(C)		
Ŧ			Whether or not the	Negative i	is "not significant"	is de	cide	d by a vote.		
ndi	Motion	The	Negative is "not sig	nificant".						
ng Op	Motion by/ 2 nd by	Nan	nan Fu (LONGi)/ Z h	nixin Li (Lin	ton)					
tion	Vote	Х	56Y-0N; Motion pa	ssed with	simple majority			GO TO "Final" subsection →(D)		
			XXY-XXN; Motion					GO TO "Final" subsection →(C)		
Fin al	(check if		(A)	Withdrawn	(counted under h	in d	lispo	osition)		
_ 5	applicable)		(B)	Not related	(counted under	i in c	lispo	osition)		

	(C) Related and not persuasive (significant)						
	Х	(D)	Not significant(counted under j in disposition) Related and persuasive and not addressed by technical change Addressed by technical change (counted under k disposition)				
		(E)					
		(F)					
(check if applicable)		Comment genera	ted. See Section V-(ii) Comment #X.				

Neg	ative 3											
	Referenced Section/Paragra ph		Table 2									
Negative	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. 3. Table 2: a. The improvements claimed by the authors of the draft document are only theoretically calculated. In reality an increased current would lead to increased											
TFi	nput (optional)											
Wit	hdrawal(check	×	No Negative withdrawal made by Voter.	GOTO"Related" subsection								
	one)		Withdrawal document received by Standards staff on MM/DD/YYYY.	GO TO "Final"subsection →(A)								
	Motion and	×	'Related' is mutually agreed upon.(Needs no motion.)	GO TO "Persuasive" subsection								
	Reason		Negative is not related.(Needs ≥2/3 votes to pass.)									
	(check one)		Reason									
Rel	Motion by/ 2 nd by	Nam	ne (Company)/Name (Company)									
lated	Discussion											
		XXY	-XX N ;Motion passed/failed.									
	Result of Vote(check		[Negativeis not related.] <2/3	GOTO "Persuasive" subsection								
	one)		2/3≤ [Negative is not related.]	GO TO "Final" subsection →(B)								
sua siv	Motion and Reason		Negative is related and persuasive.(Needs >1/3 votes t	o pass.)								

	(check one)	Х	Negative is related	d and not pe	ersuasive.(Needs	≥2/3	vote	es to pass.)
			Reason	No change is recommended: Through materials searching, we collect the actual operating data of different specification from 2015-2016. We find with the increase of wafer area, output power also improved. From feedback data of cell chain and module chain, comparing with 8 inch wafer, 156l, 156ll type cell and module can bring positive value. Comparing with 8 inch wafer, there is the positive return of 156l, 156ll type cells and modules. In order to regulate the wafer size and develop unified standard better, the tolerance of wafer size is reduced. With the development of cutting technology, more appropriate size of silicon wafer is required, and the new tolerance can be achieved by existing cutting technology. The reduction in tolerance can well regulate the specifications of wafers and modules, and almost all of wafer and solar cell manufacturers have already been promoted. At present, the wafer specification in most mono wafer manufacture is 0.75mm bigger than old specifications, and also be promoted in mono-crystalline silicon manufactures. These specifications also have been widely accepted by cell customers.				
	Motion by/ 2 nd by	N an	nan Fu (LONGi)/ Z l	hixin Li (Lin	ton)			
	Discussion	Non	е					
•	Result of Vote(check one)	56Y-0N; Motion passed						
			[Negative is relate persuasive.] >1/3	d and	Is a technical change recommended?		Y	GO TO "Address by Technical Change Option" subsection
			[Negative is relate persuasive.] <2/3		(check one)		N	GO TO "Final" subsection →(E)
			2/3≤ [Negative is r not persuasive.] <	90%	GO TO "Final" s	ubse	ctio	n → (C)
			and not persuasive	and not persuasive.]				Finding Option" subsection
			sed only "if the To the persons voting					uasive by a vote equal to or 4.4.2)
lot Sig	Use of "Not	X	It is mutually agrees significant".	ed upon to	term the Negative	"not		GO TO "Final" subsection →(D)
Not Significant Finding Option	significant finding option" (check one)		It is mutually agree "significant".	ed upon to	term the Negative			GO TO "Final" subsection →(C)
Ŧ.			Whether or not the	e Negative i	s "not significant" i	is de	cide	d by a vote.
ndi	Motion	The	Negative is "not sig	gnificant".				
ng Op	Motion by/ 2 nd by	Nan	nan Fu (LONGi)/ Z l	hixin Li (Lin	ton)			
tion	Vote	Х	56Y-0N; Motion pa	assed with s	simple majority			GO TO "Final" subsection →(D)
	1010		XXY-XXN; Motion	failed with	simple majority			GO TO "Final" subsection →(C)
Fir al	(check if		(A)	Withdrawn	(counted under h	in d	ispo	osition)
	applicable) (Check if applicable) (B) Not related (counted under i in disposition)						·	

	(C) Related and not persuasive (significant)							
x (D) Not significant(counted under j in disposition)					position)			
	(E) Related and persuasive and not addressed by technical change							
			(F)	Addressed by technical change (counted under k disposition)				
	(check if applicable)		Comment general	ated. See Section V-(ii) Comment #X.				

Neg	ative 4							
7	Referenced Section/Paragra		8.1.1					
√lega	ph							
Negative	Negative Text	*Ori cop 4. lı	n,suggestion) should be					
TF	input (optional)							
Wit	Withdrawal(check		No Negative withdra	wal made by Voter.	GOTO"Related" subsection			
one)			Withdrawal documer MM/DD/YYYY.	nt received by Standards staff on	GO TO "Final"subsection →(A)			
	Motion and	×	'Related' is mutually	agreed upon.(Needs no motion.)	GO TO "Persuasive" subsection			
	Reason		Negative is not relate	ed.(Needs ≥2/3 votes to pass.)				
	(check one)		Reason					
Rela	Motion by/ 2 nd by	Name (Company)/Name (Company)						
Related	Discussion							
		XXY	/-XX N ;Motion passed	J/failed.				
	Result of Vote(check		[Negativeis not related.] <2/3		GOTO "Persuasive" subsection			
	one)		2/3≤ [Negative is not	related.]	GO TO "Final" subsection →(B)			
			Negative is related a	nd persuasive.(Needs >1/3 votes t	to pass.)			
	Motion and	х	Negative is related a	nd not persuasive.(Needs ≥2/3 vot	es to pass.)			
Persuasive	Reason (check one)		Reason	No change is recommended: SE the original version. And we only this time. If PV46 is need to be a modify the project later.	y modify the size specifications			
	Motion by/ 2 nd by	N an	nan Fu (LONGi)/ Zhix	tin Li (Linton)				
	Discussion	Non	ie					
	Result of	56Y	Y-0N; Motion passed					

	Vote(check one)		[Negative is relat persuasive.] >1/3	3	Is a technical change recommended?		Y	GO TO "Address by Technical Change Option" subsection	
			[Negative is relat persuasive.] <2/3	3	(check one)		N	GO TO "Final" subsection →(E)	
			2/3≤ [Negative is not persuasive.] ·	<90%	GO TO "Final" s	ubse	ctio	n →(C)	
		X	90%≤ [Negative i and not persuasi	ve.]				inding Option" subsection	
z					finds a Negative i ction". (<i>Regulatio</i>			uasive by a vote equal to or 4.4.2)	
ot Siç	Use of "Not	X	It is mutually agreed upon to term the Negative "not significant".					GO TO "Final" subsection →(D)	
Not Significant Finding Option	significant finding option" (check one)		It is mutually agreed upon to term the Negative "significant".					GO TO "Final" subsection →(C)	
ŧΕ			Whether or not the Negative is "not significant" is decided by a vote.						
ndir	Motion	The	Negative is "not s	significant".					
η Op	Motion by/ 2 nd by	N an	nan Fu (LONGi) / 2	Zhixin Li (Lin					
tion	Vote	Х	56 Y -0 N ; Motion passed with simple majority					GO TO "Final" subsection →(D)	
	Vote		XXY-XXN; Motion	XXY-XXN; Motion failed with simple majority				GO TO "Final" subsection →(C)	
			(A)	Withdrawn	(counted under h	in di	spo	esition)	
			(B)	Not related	(counted under	i in di	ispo	osition)	
	(check if		(C)	Related an	d not persuasive (signif	ican	t)	
Fina	applicable)	X	(D)	Ū	cant <mark>(counted und</mark>		dis	sposition)	
<u>a</u>			(E)	addressed	d persuasive and by technical chan	ge		DOCUMENT FAILS	
			(F)	Addressed	by technical chan	ge (c	oun	ted under k disposition)	
	(check if applicable) Comment generated. See Section V-(ii) Comment #X.								

	Referenced Section/Paragra ph			
Negative		*Origination *Origination** **Copied.**	al complete Negative text (e.g., issue, justification	suggestion) should be
ative	Negative Text	for squate and a tolerand	Immary, there is no need and no reason to change are wafers (Table 1). For pseudo-square wafers, if a new nominal size 156 II to the existing Table 2 ar ces slightly. However, the improvements claimed ent 5843 should be demonstrated by providing co	at all, it would be sufficient and to modify the diameter by the authors of the draft
TF input (optional)				
Withdrawal(check one)		× No	Negative withdrawal made by Voter.	GOTO"Related" subsection

			Withdrawal document rece	eived by Standards sta	aff on		GO TO "Final"subsection →(A)			
		×	'Related' is mutually agree	d upon.(Needs no m	otion.	,	GO TO "Persuasive"			
	Motion and Reason		Negative is not related.(Ne							
	(check one)		Reason							
Rela	Motion by/ 2 nd by	Nar	ne (Company)/Name (Comp	pany)						
Related	Discussion									
		XXY	/-XXN;Motion passed/failed	l.						
	Result of Vote(check		[Negativeis not related.] <2	2/3		9	GOTO "Persuasive" subsection			
	one)		2/3≤ [Negative is not relate	ed.]			GO TO "Final" subsection →(B)			
			Negative is related and pe	rsuasive. <mark>(Needs >1/3</mark>	votes	s to	pass.)			
		×	Negative is related and no	t persuasive.(Needs 2	≥2/3 v	otes	s to pass.)			
Pers	Motion and Reason (check one)		No change is recommended: for square wafers and pseudo- square wafers, they both need to regulate the wafer sizes and develop unified standard better. More appropriate size of silicon wafer is required with the development of PV standard. With the development of cutting technology, more appropriate size of silicon wafer is required, and the new tolerance can be achieved by existing cutting technology. The reduction in tolerance can well regulate the specifications of wafers and modules, and almost all of wafer and solar cell manufacturers have already been promoted.							
Persuasive	Motion by/ 2 nd by	Nan	Nannan Fu (LONGi)/ Zhixin Li (Linton)							
е	Discussion	Nor	None							
		56Y	-0N; Motion passed							
	Result of	[Negative is rela persuasive.] >1/3		Is a technical change recommended?		'	GO TO "Address by Technical Change Option" subsection			
	Vote(check one)		[Negative is related and no persuasive.] <2/3				GO TO "Final" subsection →(E)			
			2/3≤ [Negative is related a not persuasive.] <90%	GO TO "Final" su	ubsec	tion	ı →(C)			
		X	90%≤ [Negative is related and not persuasive.]		Finding Option" subsection					
Not Find			sed only "if the TC Chapt the persons voting on the				asive by a vote equal to or .4.2)			
Not Significant Finding Option	Use of "Not significant	X	It is mutually agreed upon significant".	to term the Negative '	"not		GO TO "Final" subsection →(D)			
icant otion	finding option" (check one)		It is mutually agreed upon "significant".		GO TO "Final" subsection →(C)					

			Whether or not	t the Negative is "not significant" is dec	sided by a vote.				
	Motion	The	Negative is "not significant".						
	Motion by/ 2 nd by	Nan	ınan Fu (LONG i)/ Zhixin Li (Linton)					
	Vote	X	56Y-0N; Motion	n passed with simple majority	GO TO "Final" subsection →(D)				
	vote		XXY-XXN; Mot	tion failed with simple majority	GO TO "Final" subsection →(C)				
			(A)	Withdrawn(counted under h in disposition)					
			(B)	Not related (counted under i in d	isposition)				
	(check if		(C)	Related and not persuasive (signif	nificant)				
Final	applicable)			Not significant(counted under j in	disposition)				
al			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS				
			(F)	Addressed by technical change (c	ounted 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.

5	Original r	Original number (#) of Negatives (g)					
#	Number	of Ne	gatives withdrawn		(h)		
#	Number	imber of Negatives found not related (i)					
5	Number	of Ne	gatives found not significant	(j)			
#	Number on not sign		gatives addressed by technicalcha t)	ange (Negative becomes	(k)		
	Final		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 Conditions Check	denominator of § VI. Approval		
		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* ¶ 9.6.4.4.2)

IV. Other Technical Issues None

V. Comments

V- (i) Voters' Comments

Commenter 1 (Hartsough, Larry / U.A. Assocciates)- Comment 1

		1	artodagii, Earry 7 Cirti 7 (Cococolates) Comment						
	*TI	F/TC Ch	napter to fill in section/paragraph #, if necessary.						
Comment		A wiser tactic might have been to submit a Line-Item Letter ballot. Using a major revision ballot risks negatives on any part of the document.							
ıme			must' is used in 5.2 and 5.3. This is only to be used where the following phrase results from a situation or physical						
nt			If to state a requirement. Use a Line-Item Ballot to correct this.						
			7 & 8, there are many places where there is no space between the organization acronym (SEMi,ASTM, etc.) and						
			on (PV41,E122,etc.). This can be corrected by submitting a PIP form.						
			hapteragreed to do one of the following actions.						
	*N	o motic	on is required in this step.						
A		Alrea	dy addressed by Commenter #, Comment #						
Action	×	No fu	rther action was taken by the TC Chapter. See Discussion below.						
		Refer	Refer to the TF for more consideration.						
		New Business							
	Editorial Change								
D			TF: Thank you for your feedback for us about the revision of SEMI PV22-0716. The formatting issues you suggested will be adjusted as requested by us. Follow your reminder, we confirmed that the word 'must' also used in 5.2 and 5.3 in the original standard, so we need to consider this point again. The revision of this standard is based on the maximizing of silicon wafer utilization and improvement of solar cell power. Meanwhile, it aims at the purpose of standardizing the sizes of wafers used in PV industry. The attachment provides you with an introductory PPT that will give you a better understanding of the purpose of this revision. Also hope your agreement and support. I'm so glad to communicate with you about these. If you have any questions, we are always ready to answer. Larry Hartsough: Whether you change 'must' to 'shall' depends on the intended meaning where it is used. The intent of preferring (in the Style Manual) the use of 'shall' for requirements is to provide for clarity of meaning through its uniform use. See the Style Manual Table 4, line # 4-4. The use of both 'must' and 'shall' in the same Standard might be interpreted by the reader in different ways, with the misunderstanding that 'must' does not indicate a requirement. In summary, changing 'must' to 'shall' is preferred, but not required.						

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* ¶ 9.7.1.2)

APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations*¶ 9.7.1.3)

Note: If both approval conditions are not satisfied, the Document fails.

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	45	/	45	=	100.0%	≥90%

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

Note: See Regulations § 9.7.2 for further information.

×

Globally Approved (No Ratification Ballot needed):

The Letter Ballot meets the Letter Ballot approval conditions for the global technical committee.



The Letter Ballot meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validatetechnical changes.

VIII. Safety Check

Note: See Regulations§ 15 for further information.

	×	This is not a Safety Document , when all safety-related information is removed, the Document is still technically sound and complete. ($Regulations \ \P \ 8.7.1$)							
Motion			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 (<i>Regulations</i> ¶ 15.3) is complete and has been included with the Document throughout the balloting process. (<i>Regulations</i> ¶ 15.1.2)						
	Motion by/2 nd by			Nannan Fu (LONGi)/ Zhixin Li (Linton)					
	Discussion			None					
	Vote			56Y-0N; Motion passed					

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.(<i>Regulations</i> ¶ 8.8.1)				
	×	No potentially material patented technology or reproduction of copyrighted items is known.	GO TO SECTIONX.		

X. Action for This Document

	×	This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&SC for procedural review.						
M		This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.						
Motion		This Document passed TC Chapter review with technical changes and with or without editorial changesand will be forwarded to the ISC A&R SC for procedural review. A Ratification Ballot will be issued to verify the technical changes.						
		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/ 2 nd by		Nannan Fu (LONGi)/ Zhixin Li (Linton)					
	Discussion		None					
	Vote		56	-0 N				
F	inal	Action	Χ	Motion passed				
1 '	Final Action		Motion failed					

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

ason:				

^{*} 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.