Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: China Global Technical Committee: Photovoltaic TC Chapter Cochairs: Guangchun Zhang/CSI Standards Staff: Isadora Jin/SEMI China

	Scheduled in Background Statement	Actual
Date	10/25/2019	10/25/2019
Location	Beijing	Beijing
Reason for Change of Date and/or Location (if changed)		

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

I. Document Number and Title

Document Number	Document Title
6070E	New Standard: Guide for Identifying Cell Defects in
	Crystalline Silicon PV Modules by
	Electroluminescence (EL) Imaging

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	93	÷	153	=	60.8%	≥60%
Intercommittee Ballot	40					
Voting Interest Reject(s)	0		Total Vot	ers	with Rejects	0
Voting Interest Accept(s)	73					

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

III. Rejects

None

IV. Other Technical Issues None

V. Comments

V- (i) Voters' Comments

Commenter 1 (Rafael Vargas-Bernal / Instituto Tecnologico Superior de Irapuato) -Comment 1

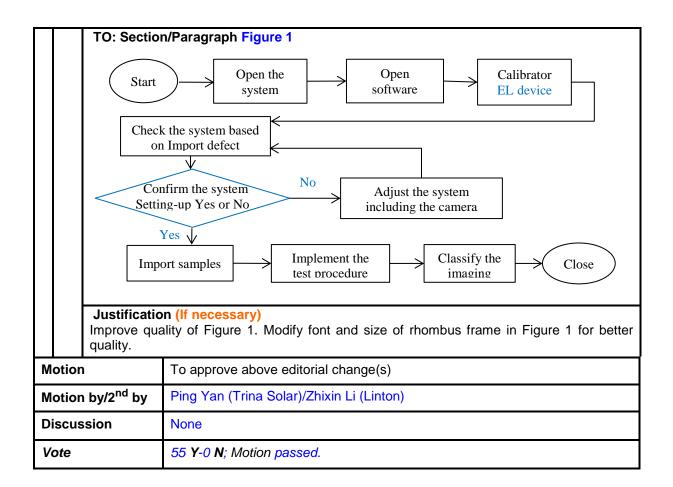
Comment	*TF	TF/TC Chapter to fill in section/paragraph #, if necessary.								
nent	In s	In subsections 7.1.1 and 7.1.2 separate values of units.								
	The	e TC Chapt	ter a	greed to do one of the following actions.						
	*No	o motion is	requ	uired in this step.						
Δc		Already a	ddres	ssed by Commenter #, Comment #						
Action				on was taken by the TC Chapter.						
		Refer to the TF for more consideration.								
		New Busi								
	Х	Editorial C	Chang	-						
		Options for editorial change		Case 1: No vote in this section: To be included and voted on as a group in § VI. <i>Editorial Changes Other</i> <i>than Those Voted on in § V.</i>						
				Case 2: Voted in this section:						
		(check one)	Х	Original section number and at least one full sentence are required in "FROM" and "TO" fields.						
		FROM: Section/Paragraph 7.1.1								
Ed		7.1.1 <i>Imaging lens</i> —EL imaging lens must avoid absorption of the spectral band of electroluminescence by PV module. For high-quality images, light with wavelength less than 850nm shall be cut off by using filters or coating.								
1 TO: Section/Paragraph 7.1.1 7.1.1 Imaging lens — EL imaging lens must avoid absorption of the spectral electroluminescence by PV module. For high-quality images, light with wavelength less is shall be cut off by using filters or coating. Justification (If necessary)										
ndes		Justifica Separate		(<mark>If necessary)</mark> e and unit.						
	2	FROM: Section/Paragraph 7.1.2 7.1.2 <i>Imaging detectors</i> — Detectors must respond to light with wavelength more than 850nm which is the electroluminescent band of the PV module.								

	TO: Section/Paragraph 7.1.2 7.1.2 <i>Imaging detectors</i> — Detectors must respond to light with wavelength more than 850 nm which is the electroluminescent band of the PV module.					
		Justificatio Separate va	o <mark>n (If necessary)</mark> lue and unit.			
Μ	Motion		To approve above editorial change(s)			
Μ	Motion by/2 nd by		Ping Yan (Trina Solar)/Zhixin Li (Linton)			
Discussion		ssion	None			
V	Vote		55 Y-0 N; Motion passed.			

Comment 2

Comment	*TF	TF/TC Chapter to fill in section/paragraph #, if necessary.							
nent	Imp	prove quality of Figure 1.							
	The	e TC Chapt	TC Chapter agreed to do one of the following actions.						
	*No	motion is	requ	uired in this step.					
Ac:				ssed by Commenter #, Comment #					
Action				on was taken by the TC Chapter.					
				for more consideration.					
		New Busi							
	Х	Editorial C	hang						
		Options for editorial		Case 1: No vote in this section: To be included and voted on as a group in § VI. <i>Editorial Changes Other</i> <i>than Those Voted on in § V.</i>					
		change (check one)	х	Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.					
Editorial Changes	1	Start Cheo Co Set	ck theon Im	on/Paragraph Figure 1 Open the Open software Calibrator EL device e system based port defect Adjust the system including the camera Implement the test procedure Classify the imaging Close					

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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)

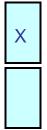
APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations* ¶ 9.6.2.1.3)

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	73	/	73	=	100.0%	≥90%

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

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

Note: See Regulations § 9.6.2 for further information.



Globally Approved (No Ratification Ballot needed): The Letter Ballot meets the Letter Ballot approval conditions for the global technical committee.

Need a Ratification Ballot:

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

VIII. Safety Check

Note: See Regulations § 15 for further information.

	x	Th is ទ	his is not a Safety Document , when all safety-related information is removed, the Document s still technically 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 not technically sound and complete. (<i>Regulations</i> ¶ 8.7.2)						
				klist (<i>Regulations</i> ¶ 15.3) is complete and has been included with the Document he balloting process. (<i>Regulations</i> ¶ 15.1.2)					
	Motion by/2 nd by Ping Yan (Trina Solar)/Zhixin Li (Linton)								
	Discussion None								
	Vote 46 Y-9 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*. See *Regulations* § 16 for further information.

х	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)						
	х	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	

X. Action for This Document

			is Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R C for procedural review.						
M	x		ument passed TC Chapter review with editorial changes and will be forwarded to the SC for procedural review.						
Motion	ment passed TC Chapter review with technical changes and with or without nanges and will be forwarded to the ISC A&R SC for procedural review. A n 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 Docu	ment failed TC Chapter review and work will be discontinued.						
Motion by/ 2 nd by Ping Yan (Trina Solar)/Zhixin Li (Linton)			Ping Yan (Trina Solar)/Zhixin Li (Linton)						
Discussion			None						
Vote 46 Y-9 N									
Final Action			X Motion passed						
	Final Action		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.