Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: China

Global Technical Committee: Photovoltaic

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

Standards Staff: Sophia Huang / SEMI China

	Scheduled in Background Statement	Actual
Date	10/13/2017	10/13/2017
Location	Huang He Grand Hotel NO.666 Middle Renmin Road, Jiangyan,Taizhou,Jiangsu,China	Huang He Grand Hotel NO.666 Middle Renmin Road, Jiangyan,Taizhou,Jiangsu,China
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
6070A	New Standard: Test Method for 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. ($Regulations \ \P 9.7.1.1$)

Voting Tally (with example values):

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	98	÷ 163 =	60.1%	?60%
Intercommittee Ballot	21			
Voting Interest Reject(s)	3	Total Voters	with Rejects	3
Voting Interest Accept(s)	61			

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

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: Ralf Siebert)
Voter Reject 1 (Voter: Ralf Siebert, Conergy GlobalSolutions GmbH)

	Referenced Section/ Paragraph	*TF/	TC Chapter to fill in, including text in the ballot if nec	essary.				
Ne		*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.						
Negative	Negative Text	In regards to Defects classification the Draft Document 6070A states: 'should be in accordance to the reference classification images database and make the conclusion of the sample EL type status.' Change request: Clear criteria regarding potential cell and module reliability issues related to the depicted peculiarities which become visible by EL are not yet defined but need to be defined.						
TF	input (optional)							
	Withdrawal	X	No Negative withdrawal made by Voter.	GO TO "Related" subsection				
	(check one)		Withdrawal document received by Standards staff on	GO TO "Final" subsection → (A)				
	Motion and	X	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection				
	Reason (check one)		Negative is not related. (Needs ≥2/3 votes to pass.)					
			Reason					
Re	Motion by/ 2 nd by	Nam	ne (Company)/Name (Company)					
Related	Discussion							
		XX Y	Y-XX N; Motion passed/failed.					
	Result of Vote (check one)		[Negative is not related.] < 2/3	GO TO "Persuasive" subsection				
	(3113311 3113)		2/3 ≤ [Negative is not related.]	GO TO "Final" subsection → (B)				
Persuasi ve	Motion and Reason		Negative is related and persuasive. (Needs >1/3 votes	to pass.)				
) Jasi	(check one)	Х	Negative is related and not persuasive. (Needs ≥2/3 vo	tes to pass.)				

				Reas	technical judgment The committee rec to following three re 1. Influence on pove much experience of are interested in it, 2. We think that tech sellers and buyers 3. Our standards for not in the study wit the reliability of the	after being discussionmmended to focuseasons: ver or long reliabilition that yet. Maybe wand put them into somical judgment/crition which should not becus on the production the internal resease relationship, so the	ssed in a s on the y wasn't we can w standard eria is kir e wrote i on proce arch theo there is i	age classification and related a lot meetings past three years. classification of EL images due included because there weren't vork together on this topic if you as an amendment in future and of business matters between into standard. ss of the guidance components, ry and the relationship between no professional analysis of the alysis of more detailed, you can		
		otic 2 nd	n by/ by	Ping Yan	(Trina) / Tongrong Zhao	(LINYANG PV)				
	Di	scu	ssion	None						
				33 Y-0 N	Motion passed/failed.					
	Res				ative is related and uasive.] > 1/3	Is a technical change recommended?	Υ	GO TO "Address by Technical Change Option" subsection		
	(ch	necl	k one)		ative is related and not uasive.] < 2/3	(check one)	N	GO TO "Final" subsection → (E)		
				2/3 ≤	2/3 ≤ [Negative is related and not persuasive.] < 90% GO TO "Final" subsection → (C)					
				y 90%	≤ [Negative is related	GO TO "Not Significant Finding Option" subsection				
	Tech	nic	al Chang		not persuasive.]					
	Origi fields		section/	paragrap	h number and at least	one full sentence	are requ	uired in "FROM" and "TO"		
>			FROM:	Section/F	aragraph XXX					
Addre			TO: Se	ction/Paragraph xxx						
ess l		1								
oy T	chn		Justific	ation (If necessary)						
echnica	Technical Changes		FROM:	Section/Paragraph XXX						
al Char	anges	2	TO: Se	ction/Para	agraph xxx					
dress by Technical Change Option	Justification (If necessary)									
ion	Motio	on			Negative is addressed b	y the technical cha	nge(s).			
			py/2 nd by		Name (Company)/Name	*				
	Disc				**					
		Re	sult of V	ote	XX Y-XX N; Motion pass	sed/failed.				

		(check on	e)			2/3 ≤ [Ne change(s	egative is addressed by the technical s).]	GO TO "Incorporation of the Technical Change" subsection
						[Negative change(s	e is not addressed by the technical s).] < 2/3	GO TO "Final" subsection → (E)
		Motion			To ii	ncorpora	te the technical change(s).	
	Inco	Motion by/	2 nd k	ру	Nam	ne (Comp	any)/Name (Company)	
	Incorporation of the Technical Change	Discussion	1					
	ntio al C				XX Y	/-XX N ; N	Notion passed/failed.	
	n of tl hang	Result o				90% ≤ [A	gree to incorporate.]	GO TO "Final" subsection → (F)
	he e	(check	one)			[Disagree	e to incorporate.]>10%	GO TO "Final" subsection → (E)
Z	This o	option can er than 90%	be u 6 of t	he p	erso	ns votin	C Chapter finds a Negative not pers g on the action". (<i>Regulations</i> ¶ 9.6	.4.4.2)
ot Siç	Us	e of "Not	X		is mutually agreed upon to term the Negative "not ignificant".			GO TO "Final" subsection → (D)
Not Significant Finding Option	sig findi	check one)			mutually agreed upon to term the Negative nificant".			GO TO "Final" subsection → (C)
t Fi	`			Whe	ether	or not the	e Negative is "not significant" is decide	ed by a vote.
ndi	ľ	/lotion	The	Neg	gative is "not significant".			
ng Op	Motion by/ 2 nd by			ne (C	omp	any)/Nan	ne (Company)	
tion		Vote		XX '	Y-XX N; Motion passed with simple majority		n passed with simple majority	GO TO "Final" subsection → (D)
		vote		XX '	Y-XX N; Motion failed with simple majority			GO TO "Final" subsection → (C)
					(/	A)	Withdrawn <mark>(counted under h in dis</mark> p	osition)
					(I	3)	Not related (counted under i in disp	osition)
	(0	heck if			((C)	Related and not persuasive (significal	nt)
Final		plicable)	Χ			D)	Not significant (counted under j in d	isposition)
al					(1	E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
					(F)	Addressed by technical change (cour	nted under k disposition)
	(check if applicable)			Com	mment generated. See Section V-(ii) Comment # X.			

This table is needed for each Negative. Disposition of Voting Interest Reject 2

Check only when the Document has not been failed.

1	Original number (#) of Negatives	(g)
0	Number of Negatives withdrawn	(h)
0	Number of Negatives found not related	(i)
0	Number of Negatives found not significant	(j)

0			f Negatives addressed by technical change (Negative not significant) (k)							
			g - (h + i + j + k) = 0	Reject is Not Valid and denominator of § VI. A	l is not included in the pproval Conditions Check					
	Final		g - (h + i +j + k) >0	Reject is included in the Approval Conditions						
			Reject without a Negative	Not Valid						

Voting Interest Reject 2 (Voting Interest Name: Peter, Wagner)
Voter Reject 1 (Voter: Peter, Wagner Peter Wagner Consulting)

	Referenced Section/	*TF/	TC Chapter to fill in, including text in the ballot if neces	ssary.
_	Paragraph			
Negative		*Ori	ginal complete Negative text (e.g., issue, justification,	suggestion) should be copied.
ve	Negative Text	the i	tion 1, Purpose, is still inadequate. It just states what the doreader why such a standard would be needed, like in the book changed.	
TF	input (optional)			
	Withdrawal	х	No Negative withdrawal made by Voter.	GO TO "Related" subsection
	(check one)		Withdrawal document received by Standards staff on	GO TO "Final" subsection → (A)
		×	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection
	Motion and Reason (check one)		Negative is not related. (Needs ≥2/3 votes to pass.)	
			Reason The standard is formulated in order to provid applying electroluminescence imaging of crystal and characterize EL image types.	
Related	Motion by/ 2 nd by	Nam	ne (Company)/Name (Company)	
ited	Discussion			
		XX '	Y-XX N; Motion passed/failed.	
	Result of Vote (check one)		[Negative is not related.] < 2/3	GO TO "Persuasive" subsection
	(0.10011 0.110)		2/3 ≤ [Negative is not related.]	GO TO "Final" subsection → (B)
Pe		Х	Negative is related and persuasive. (Needs >1/3 votes to	pass.)
Persuasive	Motion and Reason (check one)		Negative is related and not persuasive. (Needs ≥2/3 votes	s to pass.)
ive	(5.155)		Reason We accept his suggestion. More description in de	etail expression of document.

		otio 2 nd	n by/ by	Ping	y Yan (Trina) / Tongrong Zhao (L	INYANG PV)				
	Di	scu	ssion	Non	e						
		_ [Ne				N; Motion passed legative is related and ersuasive.] > 1/3 Is a technical change X Y GO TO "Addr Technical Change chan					
			of Vote cone)		[Negative is persuasive	s related and not	recommended? (check one)		N	GO TO "Final" subsection → (E)	
					2/3 ≤ [Nega	ative is related and sive.] < 90%	GO TO "Final" s	ubse	ectio		
						gative is related and	GO TO "Not Sign	nifica	ant F	Finding Option" subsection	
		nal			ecommenda		e full sentence ard	e req	uire	d in "FROM" and "TO"	
Address by Technical	Technical Changes	1	2.1 Th TO: Sec 2.1 This prepara defects. Justific Change prepara FROM:	is stion to tes tion, eation d to: Sect	n/Paragraph t method s image pro n (If necess This test m	lies to testing for de 2.1 pecifies requirement ocessing, testing processing, testing	nts of testing instrocedure to captu	rumo ire a	ent, n El ume	testing environment, sample image and classification of the end classification of the end classification of defects.	
Char											
ıge (Moti		*			Negative is addressed by the technical change(s).					
ical Change Option	Motion Disc		oy/2 nd by ion	<u> </u>	Ping Ya	Ping Yan (Trina) / Tongrong Zhao (LINYANG PV) None					
					33 Y -0	N; Motion passed					
						2/3 ≤ [Negative is addressed by the technical GO TO "I Technical			GO TO "Incorporation of the Technical Change"		
		_	sult of V heck on		X					subsection	
		(c	heck on		X	change(s).] [Negative is not add change(s).] < 2/3	Iressed by the tech	nical		subsection GO TO "Final" subsection → (E)	
	In:	(c	heck on	e)	To inco	[Negative is not add change(s).] < 2/3 orporate the technic	al change(s).			GO TO "Final" subsection	
	Incorporatio n of the	Mc Mc	heck on	e) 2 nd k	To inco	[Negative is not add change(s).] < 2/3	al change(s).			GO TO "Final" subsection	

							•
		Result o		X	90% ≤ [A	Agree to incorporate.]	GO TO "Final" subsection → (F)
		(check	one)		[Disagre	e to incorporate.]>10%	GO TO "Final" subsection → (E)
z						Chapter finds a Negative not persuas on the action". (<i>Regulations</i> ¶ 9.6.4.4	
lot Siç	Us	e of "Not		is mutual gnificant"		upon to term the Negative "not	GO TO "Final" subsection → (D)
Not Significant Finding	significant finding option" (check one)			is mutual ignificant		upon to term the Negative	GO TO "Final" subsection → (C)
Ī		•	W	hether o	r not the N	legative is "not significant" is decided by	y a vote.
ndi	ı	Motion	The N	Negative is "not significant".			
ng Op		otion by/ 2 nd by	Name	(Compar	ny)/Name	(Company)	
Option	Vote		X	X Y-XX N	I; Motion p	passed with simple majority	GO TO "Final" subsection → (D)
			X	X Y-XX N	I; Motion f	ailed with simple majority	GO TO "Final" subsection → (C)
				(A	()	Withdrawn (counted under h in disp	osition)
				(E	3)	Not related (counted under i in dispo	osition)
	(0	check if		(0	c)	Related and not persuasive (significar	nt)
Final	•	plicable)		([))	Not significant (counted under j in di	sposition)
ıal				(E	E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
			X	(F)	Addressed by technical change (cour	ted under k disposition)
	•	check if plicable)	C	omment	generated	. See Section V-(ii) Comment # X.	

This table is needed for each Negative.

Ne	Referenced Section/ Paragraph	*TF/	TF/TC Chapter to fill in, including text in the ballot if necessary.							
Negative	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. Section 2: here it should be stated that the test method is for indoor testing								
TF	input (optional)									
	Withdrawal	х	No Negative withdrawal made by Voter.	GO TO "Related" subsection						
	(check one)		Withdrawal document received by Standards staff on MM/DD/YYYY.	GO TO "Final" subsection → (A)						
Relat ed	Motion and Reason	×	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection						
at	(check one)		Negative is not related. (Needs ≥2/3 votes to pass.)							

				Reason	We accept his sug	ggestion.it will mor	e in l	ine v	vith standard requirements
	otior 2 nd I		Nam	ne (Compai	ny)/Name (Compar	ny)			
Discussion									
			XX '	Y-XX N; Mo	otion passed/failed				
		f Vote one)		[Negative	is not related.] < 2/	3			GO TO "Persuasive" subsection
•		•		2/3 ≤ [Neg	ative is not related.]			GO TO "Final" subsection → (B)
			Х	Negative is	s related and persu	asive. (Needs >1/	3 vo	tes t	to pass.)
Motion and Reason (check one)				Negative is	s related and not po	•			
(61	IECK	one)		yes, we have change, note 2.1 to 1.2 The to modules. Monolithic module or singe cell, module used for testing.					
	otior 2 nd I		Ping Yan (Trina) / Tongrong Zhao (LINYANG PV)						
		sion	None						
Result of Vote (check one)			×	Persuasive [Negative persuasive 2/3 ≤ [Neg and not persuasive 90% ≤ [Negand not persuasive)	is related and e.] > 1/3 is related and not e.] < 2/3 ative is related ersuasive.] < 90% egative is related ersuasive.]	Is a technical change recommended? (check one) GO TO "Final" s GO TO "Not Sign			GO TO "Address by Technical Change Option" subsection GO TO "Final" subsection → (E) on → (C) Finding Option" subsection
	inal s s.	FROM: 2.1 The module TO: Second T	ection/Paragraph Section 2.1 stest method specifies requirements of testing instrument, testing environment, sample ation, image processing, testing procedure to capture an EL image and classification of s. cation (If necessary) yes, we have change to 2.1 Section/Paragraph XXX						
(Technical Changes	1 c	Technical Changes 1 2.1 This prepara defects. Justific FROM:	Technical 1 2.1 This test preparation, defects. Justification FROM: Section	1 2.1 This test method spreparation, image prodefects. Justification (If neces) FROM: Section/Paragr	2.1 This test method specifies requirement preparation, image processing, testing preparation (If necessary) yes, we have FROM: Section/Paragraph XXX	2.1 This test method specifies requirements of testing inspreparation, image processing, testing procedure to cap defects. Justification (If necessary) yes, we have change to 2.1 FROM: Section/Paragraph XXX	2.1 This test method specifies requirements of testing instrum preparation, image processing, testing procedure to capture a defects. Justification (If necessary) yes, we have change to 2.1 FROM: Section/Paragraph XXX	2.1 This test method specifies requirements of testing instrument, preparation, image processing, testing procedure to capture an Edefects. Justification (If necessary) yes, we have change to 2.1 FROM: Section/Paragraph XXX

		Justific	stification (If necessary)							
	Motio	n		Neg	ative is a	ddressed by the technical change(s).				
ŀ	Motio	n by/2 nd by	<i>y</i>	Ping	Yan (Tri	ina) / Tongrong Zhao (LINYANG PV)				
•	Discussion				None					
ŀ				22 \	33 Y-0 N; Motion passed					
				33 1	GO TO "Incorporation of					
	Result of Vote (check one)			X	2/3 ≤ [Negative is addressed by the technic change(s).]		Technical Change" subsection			
						e is not addressed by the technical s).] < 2/3	GO TO "Final" subsection → (E)			
		Motion		To i	ncorpora	ate the technical change(s).				
	nco Tec	Motion by/		Ping	Ping Yan (Trina) / Tongrong Zhao (LINYANG PV)					
	rpo	Discussion	า	Nov						
	ration			Nor		otion passed				
	Incorporation of the Technical Change	Result of Vote		X		Agree to incorporate.]	GO TO "Final" subsection → (F)			
	he e	(check	one)		[Disagre	ee to incorporate.]>10%	GO TO "Final" subsection → (E)			
Not c:			It is mutually agreed upon to term the Negative "not significant".				GO TO "Final" subsection → (D)			
Not Significant Finding Option	sig findi:	Use of "Not significant finding option" (check one)		It is mutually agreed upon to term the Negative "significant".			GO TO "Final" subsection → (C)			
<u>ұ</u> п	(CII	eck one)	Wh	ethe	r or not th	ne Negative is "not significant" is decide	ed by a vote.			
2	N	/lotion	The Negative is "not significant".							
		otion by/	Name (0	Company)/Name (Company)						
<u> </u>		Vote	XX	Y-XX	N; Motio	on passed with simple majority	GO TO "Final" subsection → (D)			
		vote	XX	Y-X	N; Motio	on failed with simple majority	GO TO "Final" subsection → (C)			
				(A)	Withdrawn (counted under h in disp	position)			
				(B)	Not related (counted under i in disp	•			
		heck if			C)	Related and not persuasive (signification)	,			
Π 3	apı	olicable)		(D)	Not significant (counted under j in d	lisposition)			
<u>-</u>					E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS			
ŀ	1-	heck if	Х		F)	Addressed by technical change (cou				
		olicable)	Cor	nme	nt genera	ted. See Section V-(ii) Comment # X	ζ.			

	Referenced	*TF/	TC Chapte	r to fill in, includi	ng text in the bal	lot if I	nec	essary.				
z	Section/ Paragraph											
Negative			ginal comp ied.	olete Negative tex	t (e.g., issue, just	tificat	ion,	, suggestion) should be				
9	Negative Text	3.2: this is not clear, can the document used for outdoor testing or only as a bench mark?										
TF	input (optional)											
	Withdrawal	х	No Negativ	ve withdrawal mad	e by Voter.			GO TO "Related" subsection				
	(check one)		Withdrawa MM/DD/YY	I document receive	ed by Standards st	taff on	1	GO TO "Final" subsection → (A)				
	Mation and	X	'Related' is	mutually agreed ι	notio	n.)	GO TO "Persuasive" subsection					
	Motion and Reason		Negative is	not related. (Nee	ds ≥2/3 votes to p	oass.)						
	(check one)		vith standard requirements									
Rel	Motion by/ 2 nd by	Nan	Name (Company)/Name (Company)									
Related	Discussion											
	Result of Vote (check one)	XX Y-XX N; Motion passed/failed.										
			[Negative i	s not related.] < 2/		GO TO "Persuasive" subsection						
	(61100110)		2/3 ≤ [Nega	ative is not related	GO TO "Final" subsection → (B)							
		x Negative is related and persuasive. (Needs >1/3 votes to pass.)						o pass.)				
	Motion and Reason		Negative is	related and not p	ersuasive. (Needs	≥2/3	vot	es to pass.)				
Pe	(check one)		yes, we have change the note 2.1 to 1.2 The test specimens are solar cell modules. Monolithic module or singe cell, or some cells array in the module used for testing.									
Persuasive	Motion by/ 2 nd by	Ping	y Yan (Trina) / Tongrong Zhao	(LINYANG PV)							
sive	Discussion	Non	е									
		33 Y	′-0 N; Motic	on passed								
	Result of Vote (check one)	Х	[Negative i persuasive	s related and .] > 1/3	Is a technical change recommended?	Х	Y	GO TO "Address by Technical Change Option" subsection				
			[Negative i persuasive	s related and not .] < 2/3	(check one)		N	GO TO "Final" subsection → (E)				

-	_										
						egative is related	GO TO "Final" subsection	$on \rightarrow (C)$			
						persuasive.] < 90% Negative is related		- (-)			
						persuasive.]	GO TO "Not Significant I	Finding Option" subsection			
	Tech	nic	al Chang			ndations					
	Origi fields Technical Changes	FROM: Section/Paragraph Section 2.1 2.1 This standard applies to testing for defect of cells in crystalline silicon modules. TO: Section/Paragraph Section 2.1 1 2.1 This test method specifies requirements of testing instrument, testing environ propagation, image processing testing proceedure to capture an El image and classing proceedure to capture and classing procedure to ca									
Address by Technical Change Option		2	FROM: Section/Paragraph 3.2 3.2 This method is suitable for indoor or fixed single module testing, however outdoor module array tests can also use it work as a reference benchmark. TO: Section/Paragraph 2.3 2.3 This method is suitable for indoor or fixed single module testing, outdoor module array tests can also use it work as a reference Standard. Justification (If necessary) Change to 2.3 This method is suitable for indoor or fixed single module testing, outdoor module array tests can also use it work as a reference Standard.								
Ch	Motio	on.	inodalo	uray t	Negative is addressed by the technical change(s).						
ang			rend i		Ping Yan (Trina) / Tongrong Zhao (LINYANG PV)						
e O	WIOTIC	on i	by/2 nd by		1	None					
pti	Disc	uss	ion		Notice						
) S					33 Y-0 N; Motion passed						
			sult of V		X	2/3 ≤ [Negative is ac change(s).]	ddressed by the technical	GO TO "Incorporation of the Technical Change" subsection			
						[Negative is not add change(s).] < 2/3	ressed by the technical	GO TO "Final" subsection → (E)			
		Мс	otion		To i	ncorporate the tech	nical change(s).	· (=)			
	T _e		otion by/	2 nd bv	Ping Yan (Trina) / Tongrong Zhao (LINYANG PV)						
	S S		scussion		Nor	, ,					
	nica			•							
	al C				33 Y	'-0 N; Motion passed					
	Incorporation of the Technical Change		Result of Vote (check one)		X	90% ≤ [Agree to inco	orporate.]	GO TO "Final" subsection → (F)			
	e e					[Disagree to incorpo	rate.]>10%	GO TO "Final" subsection → (E)			
Not Significan					only "if the TC Chapter finds a Negative not persuasive by a vote equal to or persons voting on the action". (Regulations ¶ 9.6.4.4.2)						
ot iican	It is mutually agreed upon to term the Negative "not significant". GO TO "Final" subsecti → (D)						GO TO "Final" subsection → (D)				

	Use of "Not significant finding option"		It is mutually a "significant".	greed upon to term the Negative	GO TO "Final" subsection → (C)			
	(check one)		Whether or not the Negative is "not significant" is decided by a vote.					
	Motion	The	Negative is "no	t significant".				
	Motion by/ 2 nd by	Nan	ne (Company)/N	lame (Company)				
	Vote		XX Y-XX N; Mo	otion passed with simple majority	GO TO "Final" subsection → (D)			
	vote		XX Y-XX N; Mo	otion failed with simple majority	GO TO "Final" subsection → (C)			
			(A)	Withdrawn (counted under h in dis	position)			
			(B)	Not related (counted under i in disp	oosition)			
	(check if		(C)	Related and not persuasive (signification	ant)			
Final	applicable)		(D)	Not significant (counted under j in c	disposition)			
a			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS			
		Χ	(F)	Addressed by technical change (cou	nted under k disposition)			
	(check if applicable)		Comment gene	erated. See Section V-(ii) Comment # X	<u> </u>			

	Referenced Section/ Paragraph	*TF/	TC Chapter to fill in, in	ncluding text in the ballot if nec	essary.					
Negative	<u> </u>		*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.							
ve	Negative Text	jund	Section 5, 5.2.1: this definition of EL is inadequate. EL is "light emitted by a pnjunction under forward or reverse bias". The document then has to state somewhere, e.g. in section 6, that forward bias is used here.							
TF	input (optional)									
	Withdrawal	Х	No Negative withdrawa	GO TO "Related" subsection						
	(check one)		Withdrawal document i MM/DD/YYYY.	received by Standards staff on	GO TO "Final" subsection → (A)					
	Motion and	X	'Related' is mutually ag	greed upon. (Needs no motion.)	GO TO "Persuasive" subsection					
	Reason		Negative is not related.	. (Needs ≥2/3 votes to pass.)						
Rel	(check one)		Reason	We accept his suggestion.it w requirements	ill more in line with standard					
Related	Motion by/ 2 nd by	Nan	ne (Company)/Name (C	company)						
	Discussion									
		XX	Y-XX N; Motion passed	/failed.						

			of Vote	I	[Negative is not related.] < 2	/3	GO TO "Persuasive" subsection				
	(cl	hecl	c one)	2	2/3 ≤ [Negative is not related	i.]	GO TO "Final" subsection → (B)				
	8.4	-4!-		Х	Negative is related and pers	uasive. (Needs >1	/3 votes to pass.)				
	Motion and Reason (check one)				Negative is related and not p	gative is related and not persuasive. (Needs ≥2/3 votes to pass.)					
	•		,		Reason	ason					
ק	Motion by/ 2 nd by			Ping	Ping Yan (Trina) / Tongrong Zhao (LINYANG PV)						
ers	Di	scu	ssion	None							
uas	3			33 Y-	3 Y-0 N; Motion passed						
Persuasive	Res	_ [N			[Negative is related and persuasive.] > 1/3	Is a technical change recommended?	X Y GO TO "Address by Technical Change Option" subsection				
			cone)		[Negative is related and not persuasive.] < 2/3	(check one)	N GO TO "Final" subsection → (E)				
				i	2/3 ≤ [Negative is related and not persuasive.] < 90%	not persuasive.] < 90%					
				á	90% ≤ [Negative is related and not persuasive.]	GO TO "Not Sig	nificant Finding Option" subsection				
	Tech	nnic	al Chang	je Re	commendations						
	Orig field		section/	parag	graph number and at least	one full sentence	are required in "FROM" and "TO"				
			FROM:	Section/Paragraph 5.2.1							
			5.2.1 E	Electr	oluminescence — throug	h a positive volta	age at both ends of the electrode to				
Add			generat	e elec	ctric field and minority inje	ection, which lead	to light emission.				
		1		ction/Paragraph 5.2.1							
ss b	Te			Electroluminescence — light emission of p n-junction caused by forward or reverse this standard, forward bias is used.							
y T	chr				•	ndard, forward bias is used. f necessary) Changed to: Electroluminescence — light emission of pn-junction					
ech	Technical				rward or reverse bias. In this						
nic	Ch		FROM:	M: Section/Paragraph XXX							
al C	Changes		i KOWI.	occin							
;ha	Jes		TO 0	- 4 • 4	(Damanus I						
nge C		2	10: Sec	ction/	tion/Paragraph xxx						
ress by Technical Change Option			Justific	ation	(If necessary)						
	Moti	on			Negative is addressed b	y the technical cha	ange(s).				
	Moti	on k	y/2 nd by	,	Ping Yan (Trina) / Tong	rong Zhao (LINYAN	NG PV)				
	Disc	uss	ion		None						
	Result of Vote				33 Y-0 N; Motion passe	d					

		(check on	e)	X	2/3 ≤ [Nachange(egative is addressed by the technical s).]	GO TO "Incorporation of the Technical Change" subsection		
						e is not addressed by the technical s).] < 2/3	GO TO "Final" subsection → (E)		
		Motion		To	To incorporate the technical change(s).				
	Inco Teo	Motion by/	2 nd b	y Pin	Ping Yan (Trina) / Tongrong Zhao (LINYANG PV)				
	Incorporation of the Technical Change	Discussion	1	No	None				
	ntion			33 `	Y-0 N; Mo	tion passed			
	n of tI hang	Result o			90% ≤ [A	Agree to incorporate.]	GO TO "Final" subsection → (F)		
	he e	(check	(check one)		[Disagre	e to incorporate.]>10%	GO TO "Final" subsection → (E)		
z						C Chapter finds a Negative not persig on the action". (<i>Regulations</i> ¶ 9.6.			
lot Si	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" eck one)		It is mut "signific		ed upon to term the Negative	GO TO "Final" subsection → (C)		
Ī	`	,		Whethe	r or not th	e Negative is "not significant" is decide	ed by a vote.		
ndi	ı	Motion	The	Negativ	gative is "not significant".				
ng Op		otion by/ 2 nd by	Nam	ame (Company)/Name (Company)					
otion		Vote		XX Y -X	X N; Motio	on passed with simple majority	GO TO "Final" subsection → (D)		
		vote	XX Y-XX N; Motion failed with simple majority GO TO "Final" subs → (C)						
					(A)	Withdrawn (counted under h in disp	osition)		
					(B)	Not related (counted under i in disp	osition)		
	(0	check if			(C)	Related and not persuasive (significant	nt)		
Final		plicable)			(D)	Not significant (counted under j in di	isposition)		
<u>a</u>					(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS		
			Χ		(F)	Addressed by technical change (cour	nted under k disposition)		
	•	check if plicable)		Comme	nt genera	ted. See Section V-(ii) Comment # X.			

Negati	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.
Ve	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.

		In section 6 general description of the test method/procedure is required. The one paragraph in section 6 does not meet this requirement. Section 6 has to describe the test method in general terms but with more details. Currently it describes only the content of the draft document, but it does not describe the test method itself. The current paragraph 6.1 would fit better in section 1 with appropriate changes of the wording.							
TF	input (optional)								
	Withdrawal	X No Ne	gative withdrawal mad	le by Voter.		GO TO "Related" subsection			
	(check one)		awal document received of the contract of the	ed by Standards sta	ff on	GO TO "Final" subsection → (A)			
	Motion and	× 'Relate	ed' is mutually agreed	GO TO "Persuasive" subsection					
	Reason	Negative is not related. (Needs ≥2/3 votes to pass.)							
	(check one)	Reaso	n						
Re	Motion by/ 2 nd by	Name (Con	npany)/Name (Compa	ny)					
Related	Discussion								
	Result of Vote (check one)	XX Y -XX N ; Motion passed/failed.							
		[Negat	ive is not related.] < 2/	/3		GO TO "Persuasive" subsection			
		2/3 ≤ [I	Negative is not related		GO TO "Final" subsection → (B)				
		Negati	ve is related and persu	uasive. (Needs >1/3	votes t	o pass.)			
	Motion and Reason (check one)	Negati	ve is related and not p	≥2/3 vot	es to pass.)				
	(check one)	Reaso	We accept his sug- with standard requi		as his s	suggestion ,it will more in line			
P	Motion by/ 2 nd by	Name (Con	npany)/Name (Compa	ny)					
ersı	Discussion								
Persuasive		XX Y-XX N	Motion passed/failed						
ve	Result of Vote		ive is related and sive.] > 1/3	Is a technical change recommended?	Y	GO TO "Address by Technical Change Option" subsection			
	(check one)		ive is related and not sive.] < 2/3	(check one)	N	GO TO "Final" subsection → (E)			
		2/3 ≤ [l	Negative is related to persuasive.] < 90%	GO TO "Final" su	GO TO "Final" subsection → (C)				
		90% ≤ [Negative is related and not persuasive.] GO TO "Not Significant Finding Option" su							
A	Technical Chang	ge Recomm	endations						
Address by	Original section, fields.	ction/paragraph number and at least one full sentence are required in "FROM" and "TO"							

	Technical Changes		6.1 Th sample the requested for the model of the multiple support of the multi	prepara prepar	methation, ts of ragramary electrost the Country ence ence evice no en	of the test method. When the PN junction ons recombine with the holes to release en pluminescence spectrum has a certain light in CCD imaging device can capture the image, but holes. There is no energy release, the capture was a significant dark spot, to find the purpo	is energized in the forward ergy in the form of outgoing ntensity in the range of 700 ~ roken part of the phenomenon ed image of the defective part se of cell defects. The din the forward direction, the form of outgoing photons. The ge of 700 ~ 1200 nm. Select the enomenon of no electrons and			
		FROM: Section/Paragraph XXX TO: Section/Paragraph xxx Justification (If necessary)								
ļ	Motic				Negative is addressed by the technical change(s).					
,	Discu		oy/2 nd by ion			Ping Yan (Trina) / Tongrong Zhao (LINYANG PV) None				
•			sult of Vo		33 Y	7-0 N; Motion passed 2/3 ≤ [Negative is addressed by the technical change(s).] [Negative is not addressed by the technical	GO TO "Incorporation of the Technical Change" subsection GO TO "Final" subsection			
		Мс	tion		change(s).] < 2/3 → (E) To incorporate the technical change(s).					
	Incorporation of the Technical Change		otion by/2		Ping Yan (Trina) / Tongrong Zhao (LINYANG PV) None					
	atio				33 Y	/-0 N ; Motion passed				
	n of t hang	ļ	Result of		X	90% ≤ [Agree to incorporate.]	GO TO "Final" subsection → (F)			
	he e		(check one)			[Disagree to incorporate.]>10%	GO TO "Final" subsection → (E)			
Not			ion can l han 90%		uasive by a vote equal to or					
Signi		Ise of "Not				ually agreed upon to term the Negative "not nt".	GO TO "Final" subsection → (D)			
Not Significant	sign finding (chec		ficant option" It is		s muti	nificant". ⇒ (D) s mutually agreed upon to term the Negative gnificant". GO TO "Final" subsection ⇒ (C)				

		Whether or no	ot the Negative is "not significant" is de	cided by a vote.					
	Motion	The Negative is "no	The Negative is "not significant".						
	Motion by/ 2 nd by	Name (Company)/I	(Company)/Name (Company)						
	Vote	XX Y -XX N ; M	lotion passed with simple majority	GO TO "Final" subsection → (D)					
	vote	XX Y -XX N ; M	lotion failed with simple majority	GO TO "Final" subsection → (C)					
		(A)	Withdrawn (counted under h in c	disposition)					
		(B)	Not related (counted under i in d	lisposition)					
	(check if	(C)	Related and not persuasive (signi	ficant)					
Final	applicable)	(D)	Not significant (counted under j i	n disposition)					
a		(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS					
		X (F)	Addressed by technical change (c	counted under k disposition)					
	(check if applicable)	Comment gen	Comment generated. See Section V-(ii) Comment # X.						

	Referenced Section/	*TF/TC Chapter to fill in, including text in the ballot if necessary.
	Paragraph	
		*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.
		Section 7: the requirements for the apparatus described in this section are still much to general:
		a. 7.1.1 is too general, it still does not require a specified pass band. It only says "can be achieved".
	Negative Text	b. Similarly, 7.1.2 does not specify the EL band of the module.
Negative		c. 7.1.4 needs to require a dark room. In section 3 it is stated that the test method is suitable to testing in a dark environment.
l ti v		d. 7.1.6 is much too general. It needs to specify the parameters for image processing in
ė		much more detail, otherwise the results of different image processing software will not be comparable.
		e. 7.2: what is the "structure" of an EL inspection equipment? Is the set-up of the equipment meant?
		f. 7.2.3: is it really necessary to distinguish "single lens" and "multi-lenses"? The important features are spatial resolution, pass band and homogeneity of the imaging over the module area. In fact, a requirement for the homogeneity of the imaging is missing in the document. g. 7.1.3: the optical axis has to be normal to the test surface. Using "should" is not sufficient. In fact the angle has to be specified with a tolerance, e.g. such as "90° +/- 0.5°". h. 7.3.15 and 7.3.16: it is not sufficient to "suggest" that the parameters are presented. It has to be required that these parameters are reported.
TFi	input (optional)	

	\A/:4bl	Х	No Negative withdrawal m	nade b	by Voter.			GO TO "Related" subsection		
	Withdrawal (check one)		Withdrawal document reco	GO TO "Final" subsection → (A)						
		X	'Related' is mutually agree	GO TO "Persuasive" subsection						
	Motion and Reason		Negative is not related. (N	.)						
	(check one)				his suggestion. with standard r			ate as his suggestion ,it will ents		
Rela	Motion by/ 2 nd by	Nan	ne (Company)/Name (Com	pany)						
Related	Discussion									
		XX	Y-XX N; Motion passed/fai	led.						
	Result of Vote (check one)		[Negative is not related.] <	< 2/3				GO TO "Persuasive" subsection		
	(1.11.1.1)		2/3 ≤ [Negative is not relat	ted.]				GO TO "Final" subsection → (B)		
	Motion and Reason (check one)	Х	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							
P	Motion by/ 2 nd by	Ping	g Yan (Trina) / Tongrong Zh							
Persuasive	Discussion	Non	e							
ıasi		33 Y-0 N; Motion passed								
ve	Result of Vote	X	X [Negative is related and persuasive.] > 1/3		Is a technical change recommended?		Υ	GO TO "Address by Technical Change Option" subsection		
	(check one)		[Negative is related and no persuasive.] < 2/3	ot ((check one)		N	GO TO "Final" subsection → (E)		
			2/3 ≤ [Negative is related and not persuasive.] < 90°	% G	O TO "Final" s	ubse	ectio	n → (C)		
			90% ≤ [Negative is related and not persuasive.]					Finding Option" subsection		
Α	Technical Chang	ge R	ecommendations							
Address by	Original section/ fields.	/para	agraph number and at lea	st on	e full sentence	are	requ	ired in "FROM" and "TO"		

FROM: Section/Paragraph 7.1.1, 7.1.2,7.1.4, 7.3.12 Imaging lens — EL imaging lens must avoid absorption of the spectral band of electroluminescence by PV module. For high-quality images, the 850nm~950nm pass through band of imaging lens and the elimination of stray light can be achieved using filters or coating. 7.1.2 Imaging detectors — Detectors must respond to the electroluminescent band of the PV module. 7.1.4 Dark room — Provide a suitable environment for the EL inspection equipment; a dark room may be used to eliminate any stray light. Dark room imaging studio may be the box structure of the device itself, blackout curtains or an external dark environment. 7.3.12 Imaging angle — The optical axis of the imaging camera should be normal to the test surface of the PV module. TO: Section/Paragraph 7.1.1, 7.1.2,7.1.4, 7.3.12 Imaging lens —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 would better be cut off by using filters or coating. Imaging detectors — Detectors must respond to the electroluminescent band of the PV module. 7.1.4 Dark room — Provide a suitable environment for the EL inspection equipment; a dark room may be used to eliminate any stray light. Dark room imaging studio may be the box structure of the device itself, blackout curtains or an external dark environment. 7.3.12 Imaging angle —The optical axis of the imaging camera must be normal to the test surface of the PV module within 90° ±1°. Scanning mechanism — For an EL defects detection Technical Changes system with scanning structure, the movements of imaging lens and PV module must not disturb EL imaging. Justification (If necessary) a. 7.1.1 Imaging lens — 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 should be cut off by using filters or coating. b. 7.1.2 Imaging detectors — Detectors must respond to light with wavelength no less than 850nm. c. 7.1.3 Dark room — Provide a suitable environment for the EL inspection equipment; a dark room may be used to eliminate any stray light if necessary. Dark room imaging studio may be the box structure of the device itself, blackout curtains or an external dark environment. d. not accepted. It is just general requirement for image processing software. e. 7.2"structure" should be deleted. no necessary. 7.2.1,7.2.2, 7.2.3 should be deleted. g. 7.3.12 Imaging angle—The optical axis of the imaging camera must be normal to the test surface of the PV module within 90° +/-1° h. 7.3.15 Image information — For comparison of EL images, information of component serial numbers, testing conditions such as, forward current values, exposure time and other notes are required. 7.3.16 Image orientation — For easier comparison, the orientation of EL images is required to be consistent with human observation and the location of junction box is also required. FROM: Section/Paragraph XXX TO: Section/Paragraph xxx 2 Justification (If necessary) Motion Negative is addressed by the technical change(s). Motion by/2nd by Ping Yan (Trina) / Tongrong Zhao (LINYANG PV) None Discussion

Ī				33 \	Y-0 N: Mo	tion passed/failed.			
		Result of V		X		egative is addressed by the technical	GO TO "Incorporation of the Technical Change" subsection		
		•	•		[Negative change(s	e is not addressed by the technical s).] < 2/3	GO TO "Final" subsection → (E)		
	_	Motion		To i	To incorporate the technical change(s).				
	Inco Teo	Motion by/	2 nd by	Ping	g Yan (Trii	na) / Tongrong Zhao (LINYANG PV)			
	Incorporation of the Technical Change	Discussion	Discussion						
	tior			33 Y	Y-0 N ; Mo	tion passed			
	of th	Result o		X	90% ≤ [A	gree to incorporate.]	GO TO "Final" subsection → (F)		
	,,	·	(check one)			e to incorporate.]>10%	GO TO "Final" subsection → (E)		
z					only "if the TC Chapter finds a Negative not persuasive by a vote equal to or persons voting on the action". (<i>Regulations</i> ¶ 9.6.4.4.2)				
ot Sig	Use of "Not significant finding option" (check one)			s mut gnifica		ed upon to term the Negative "not	GO TO "Final" subsection → (D)		
Not Significant Finding Option				s mut gnifica		ed upon to term the Negative	GO TO "Final" subsection → (C)		
Ī			W	hethe	r or not the	e Negative is "not significant" is decide	ed by a vote.		
ndi	ı	Motion	The Ne	gative	gative is "not significant".				
ng Op		otion by/ 2 nd by	Name	(Company)/Name (Company)					
tion		Vote	XX	(Y -X)	X N; Motio	n passed with simple majority	GO TO "Final" subsection → (D)		
			XX	(Y-X)	X N; Motio	n failed with simple majority	GO TO "Final" subsection → (C)		
				(A)	Withdrawn (counted under h in disp	osition)		
				(В)	Not related (counted under i in disp	osition)		
	•	check if		(C)	Related and not persuasive (significa	nt)		
Final	ар	applicable)		(D)	Not significant <mark>(counted under j in d</mark>	isposition)		
<u> </u>					(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS		
			Χ	((F)	Addressed by technical change (coul	nted under k disposition)		
	(check if applicable)		Co	omme	nt generat	ted. See Section V-(ii) Comment # X			

Negati	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.
Ve	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.

		are	Section 9: A statement is missing saying what the test specimens are. The test specimens are solar cell modules. In addition, in 9.2., the surface "should" not be clean etc., but is has to be clean etc.							
TF	input (optional)									
	Withdrawal	Х	No Negativ	ve withdrawal mad	e by Voter.			GO TO "Related" subsection		
	(check one)		Withdrawa		ed by Standards st	taff on	1	GO TO "Final" subsection → (A)		
	Motion and	×	'Related' is mutually agreed upon. (Needs no motion.					GO TO "Persuasive" subsection		
	Reason		Negative is	not related. (Nee	ds ≥2/3 votes to p	oass.)				
	(check one)		Reason							
Rel	Motion by/ 2 nd by	Nan	ne (Compar	ny)/Name (Compai	ny)					
Related	Discussion									
		XX '	Y-XX N; Mo	tion passed/failed						
	Result of Vote (check one)		[Negative is not related.] < 2/3					GO TO "Persuasive" subsection		
			2/3 ≤ [Nega	ative is not related		GO TO "Final" subsection → (B)				
			Negative is	o pass.)						
	Motion and Reason (check one)	Х	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)							
			Reason Because each computer define label, Test results only need to include key information can be, as a standard, not necessarily set a good templathe requirements of unity.							
P€	Motion by/ 2 nd by	Ping) / Tongrong Zhao						
Persuasive	Discussion	Non	е							
asivo		33 Y	/-0 N; Motic	on passed	<u> </u>					
O	Result of Vote	X	[Negative i persuasive	s related and .] > 1/3	Is a technical change recommended?	Х	Y	GO TO "Address by Technical Change Option" subsection		
	(check one)		[Negative i persuasive	s related and not	(check one)		N	GO TO "Final" subsection → (E)		
			2/3 ≤ [Negative is related and not persuasive.] < 90% GO TO "Final" subsect				ctio			
				gative is related	GO TO "Not Sign	nifica	nt F	inding Option" subsection		
A	Technical Chang	ge Re	ecommend	ations						
Address by	Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.							ired in "FROM" and "TO"		

FROM: Section/Paragraph Section 9 9.1 The appearance of a test sample should be checked and recorded in an IEC 61215-2, § 4.1 indoor test. 9.2 The test surface of a sample should be clean, no obvious scratches a etc. TO: Section/Paragraph Section 9 9.1 The test specimens are solar cell modules. Monolithic module or sin cells array in the module used for testing. 9.2 The appearance of a test sample would better be checked and recor with the IEC 61215-2, § 4.1 indoor test. 9.3 The test surface of a sample would better be clean, no obvious scrabodies, etc. Justification (If necessary) The test specimens are solar cell modules. Monolitic cell, or some cells array in the module used for testing. FROM: Section/Paragraph XXX TO: Section/Paragraph xxx Justification (If necessary)							scratches and foreign bodies, odule or singe cell , or some d and recorded in accordance bvious scratches and foreign				
	Motic				Negative is addressed by the technical change(s).						
<u> </u>			. nd -		2 2 2						
N	Motic	n by	/2 nd by	1	Ping Yan (Trina) / Tongrong Zhao (LINYANG PV) None						
	Discu	ıssio	n		None						
F					33 Y	33 Y- N; Motion passed					
			It of Vo		X	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)				
		Moti	on		To i	ncorporate the technical change(s).					
	ncc	Moti	on by/2	2 nd by	Ping	Yan (Trina) / Tongrong Zhao (LINYANG PV)					
)rpora	Disc	ussion	l	None						
	ation				33 Y	7-0 N ; Motion passed					
9	ncorporation of the Technical Change		esult of		X	90% ≤ [Agree to incorporate.]	GO TO "Final" subsection → (F)				
		·	check			[Disagree to incorporate.]>10%	GO TO "Final" subsection → (E)				
C					only "if the TC Chapter finds a Negative not persuasive by a vote equal to or persons voting on the action". (Regulations ¶ 9.6.4.4.2)						
Sign	Us	e of "	Not		muto nifica	ually agreed upon to term the Negative "not nt".	GO TO "Final" subsection → (D)				
Not Significant	findi	significant It is		gnifica		GO TO "Final" subsection → (C)					
						or not the Negative is "not significant" is decide	ed by a vote.				

	Motion	The	Negative is "no	t significant".							
	Motion by/ 2 nd by	Nar	ne (Company)/N	e (Company)/Name (Company)							
	Vote		XX Y-XX N; Mo	otion passed with simple majority	GO TO "Final" subsection → (D)						
	vote		XX Y-XX N; Mo	otion failed with simple majority	GO TO "Final" subsection → (C)						
			(A)	Withdrawn (counted under h in d	lisposition)						
			(B)	Not related (counted under i in d	isposition)						
	(check if		(C)	Related and not persuasive (signif	icant)						
Final	applicable)		(D)	Not significant (counted under j in	n disposition)						
a			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS						
		X	(F)	Addressed by technical change (c	ounted under k disposition)						
	(check if applicable)		Comment generated. See Section V-(ii) Comment # X.								

	Referenced Section/ Paragraph	*TF/TC Chapte	er to fill in, including text in the ballot if nec	essary.				
	- urugrupii	*Original com copied.	plete Negative text (e.g., issue, justification	, suggestion) should be				
Negative	Negative Text	used too often. b. In addition, the should make under testing apparatus as woutdoor testing outdoor testing	are many requirements that are not strictly req This would qualify the document only as a gui his section should not describe requirements for p their mind whether they want a test method for as well. In the latter case then the requirement well as for the procedure have to be described solution. 0.2 does not belong into this section. It belongs	ide, but not as a test method. or outdoor testing. The authors for indoor testing only or for hts for environment and separately for indoor and				
TF	input (optional)							
	Withdrawal	X No Negat	ve withdrawal made by Voter.	GO TO "Related" subsection				
	(check one)	Withdrawa MM/DD/Y	al document received by Standards staff on YYY.	GO TO "Final" subsection → (A)				
	Motion and	X 'Related' i	s mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection				
Re	Reason	Negative	s not related. (Needs ≥2/3 votes to pass.)					
Related	(check one)	Reason	xxxx					
	Motion by/ 2 nd by	Name (Company)/Name (Company)						

	Di	scussion										
			XX	XX Y-XX N; Motion passed/failed.								
		sult of Vote	•	[Negative	is not related.] < 2/3	GO TO "Persuasive" subsection						
	(0.			2/3 ≤ [Neg	ative is not related.]			GO TO "Final" subsection → (B)			
				Negative i	Negative is related and persuasive. (Needs >1/3 votes to pass.)							
			X	Negative i	s related and not pe	ersuasive. (Needs	≥2/3	vot	es to pass.)			
P	Motion and Reason (check one)			Reason	Not accept, At present, the method of EL operation does not have any of steps and environmental requirements as in other chemical testing method for indoor testing and outdoor testing, there are still a variety of different practices in practice and are in line with the use of Able to make a prelimination comparison of major deficiencies, Most manufacturers in China have stated to prove that it is very practical.							
Persuasive	M	otion by/ 2 nd by	Pin	g Yan (Trina	a) / Tongrong Zhao							
asive	Di	scussion	Nor	None								
()			33 `	33 Y-0 N; Motion passed								
	Pos	oult of Vote	X	X [Negative is related and persuasive.] > 1/3		Is a technical change recommended?	Х	Υ	GO TO "Address by Technical Change Option" subsection			
	Result of Vote (check one)			persuasive		(check one)		N	GO TO "Final" subsection → (E)			
					ative is related ersuasive.] < 90%	GO TO "Final" s	ubse	ectio	on → (C)			
			X	90% ≤ [Ne and not pe	egative is related ersuasive.]	GO TO "Not Significant Finding Option" subsection						
Addre		inal sectio		ecommend	lations	one full sentence	are	requ	iired in "FROM" and "TO"			
Address by Technical Change Option	Technical Changes	10.1 meet t TO: S 1 10.1 better	Beca he fo ection Bec meet	section/Paragraph 10.1 cause of the high sensitivity of EL detection equipment, the test environment should following requirements: tion/Paragraph 10.1 secause of the high sensitivity of EL detection equipment, the test environment would seet the following requirements:								
Chang	al Cha	"should	d "cha		ould better";							
e Opt	ınges		: Sec	tion/Paragr	raph table 10							
ion		² TO: S	ectio	n/Paragrap	h None table 10							

1		lustific	Justification (If necessary)							
			•			ope 2.3 has including;				
	FROM: Section/Paragraph 10.2									
		TO: Sec	ction/Pa	ragra	aph 8.4					
			ation (If to pack			ping requirements,10.2 move to 8.4;				
	Motic	n		Neg	Negative is addressed by the technical change(s).					
	Motic	on by/2 nd by	,	Pin	g Yan (T	rina) / Tongrong Zhao (LINYANG F	PV)			
		ıssion		Nor	ne					
				<u>33</u> \	/- 0 N ; Mc	otion passed				
		Result of Vo		X	2/3 ≤ [N change(egative is addressed by the technical s).]	GO TO "Incorporation of the Technical Change" subsection			
		•	·			e is not addressed by the technical s).] < 2/3	GO TO "Final" subsection → (E)			
		Motion		To incorporate the technical change(s).						
	Inco Tec	Motion by/2	Motion by/2 nd by		ne (Comp	pany)/Name (Company)				
	Incorporation of the Technical Change	Discussion	iscussion							
	tion CP			XX Y-XX N; Motion passed/failed.						
	of the	Result of	sult of Vote		90% ≤ [A	Agree to incorporate.]	GO TO "Final" subsection → (F)			
	• 0	(cricck	one)		[Disagre	e to incorporate.]>10%	GO TO "Final" subsection → (E)			
_						C Chapter finds a Negative not persing on the action". (<i>Regulations</i> ¶ 9.6.				
lot Si	Ша	e of "Not		It is mutually agreed upon to term the Negative "not significant".			GO TO "Final" subsection → (D)			
Not Significant Finding Option	siç findi	gnificant ng option" leck one)	It is	is mutually agreed upon to term the Negative significant".			GO TO "Final" subsection → (C)			
nt Fi	(611	icck onc)	Whether or not the Negative is "not significant" is decided by a vote.							
ndi	ı	Motion	The Ne	gative	is "not s	ignificant".				
ng Op		otion by/ 2 nd by	Name (Comp	oany)/Nar	me (Company)				
tion		Vote	XX	X Y-XX N; Motion passed with simple majority			GO TO "Final" subsection → (D)			
		vote	XX	Y-X	N; Motio	on failed with simple majority	GO TO "Final" subsection → (C)			
				(A)	Withdrawn (counted under h in disp				
Final		check if			В)	Not related (counted under i in disp	·			
<u>a</u>	applicable)				C)	Related and not persuasive (signification)	,			
				(D)	Not significant (counted under j in d	isposition)			

		(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
	Χ	(F)	Addressed by technical change (coun	ted under k disposition)
(check if applicable)		Comment gener	ated. See Section V-(ii) Comment # X.	

N	Referenced Section/ Paragraph	*TF/TC Chapter to fill in	n, including text in the ballot if neo	essary.					
Negative	Negative Text	*Original complete Negcopied. A precision and bias state	pative text (e.g., issue, justification	, suggestion) should be					
TF	input (optional)								
	Withdrawal	No Negative withdra	awal made by Voter.	GO TO "Related" subsection					
	(check one)	Withdrawal docume MM/DD/YYYY.	ent received by Standards staff on	GO TO "Final" subsection → (A)					
	Motion and	X 'Related' is mutually	agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection					
	Reason	Negative is not rela	Negative is not related. (Needs ≥2/3 votes to pass.)						
	(check one)	Reason	xxxx						
Rel	Motion by/ 2 nd by	Name (Company)/Name (Company)							
Related	Discussion								
		XX Y-XX N; Motion passed/failed.							
	Result of Vote (check one)	[Negative is not rela	ated.] < 2/3	GO TO "Persuasive" subsection					
	(oncon onc)	2/3 ≤ [Negative is no	ot related.]	GO TO "Final" subsection → (B)					
		Negative is related a	and persuasive. (Needs >1/3 votes	to pass.)					
Pe	Motion and Reason (check one)	Negative is related a	and not persuasive. (Needs ≥2/3 vo	tes to pass.)					
rsuasive	(Clieck Olle)	Reason	We accept his suggestion. And make standard more professional						
ive	Motion by/ 2 nd by	Ping Yan (Trina) / Tongr	ong Zhao (LINYANG PV)						
	Discussion	None							
		33 Y-0 N; Motion passed	d						

persuasive.] > 1/3 change										
recommer	change recommended?									
Result of Vote (check one) [Negative is related and not persuasive.] < 2/3										
and not persuasive.] < 90%	inal" subse	ectio	on → (C)							
90% ≤ [Negative is related and not persuasive.]	ot Significa	ant F	Finding Option" subsection							
Technical Change Recommendations										
Original section/paragraph number and at least one full ser fields.	Original section/paragraph number and at least one full sentence are required in "FROM" and "TO									
FROM: Section/Paragraph None										
TO: Section/Paragraph Add NOTE 2										
NOTE 2: The uncertainty could be reduced by	applying	moı	e test in different position.							
Frequencies where MTF is between 2% and 5% (0.0 Justification (If necessary)	02 to 0.05).									
Add NOTE 2: The uncertainty could be reduced by										
resolution measurement of distinguishable lp/mm cor	responds ro	ough	lly to spatial frequencies where							
a (0.02 to 0.03).	MTF is between 2% and 5% (0.02 to 0.05).									
Add NOTE 2: The uncertainty could be reduced by resolution measurement of distinguishable lp/mm cor MTF is between 2% and 5% (0.02 to 0.05). FROM: Section/Paragraph XXX	tion/Paragraph XXX									
TO: Section/Paragraph xxx	ragraph xxx									
Justification (If necessary)	necessary)									
FROM: Section/Paragraph XXX TO: Section/Paragraph xxx Justification (If necessary) Motion Negative is addressed by the technic	Negative is addressed by the technical change(s).									
Motion by/2 nd by Ping Yan (Trina) / Tongrong Zhao (L	Ping Yan (Trina) / Tongrong Zhao (LINYANG PV)									
Motion by/2 nd by Ping Yan (Trina) / Tongrong Zhao (L Discussion 33 Y-0 N; Motion passed	None									
33 Y-0 N; Motion passed										
	the technic	al	GO TO "Incorporation of the Technical Change"							
Result of Vote (check one) X 2/3 ≤ [Negative is addressed by change(s).]			subsection							
Result of Vote X 2/3 ≤ [Negative is addressed by	ne technical									
Result of Vote (check one) X 2/3 ≤ [Negative is addressed by change(s).] [Negative is not addressed by the change(s).] < 2/3 Motion To incorporate the technical change			subsection GO TO "Final" subsection							
Result of Vote (check one) X 2/3 ≤ [Negative is addressed by change(s).] [Negative is not addressed by the change(s).] < 2/3 Motion To incorporate the technical change	je(s).		subsection GO TO "Final" subsection							
Result of Vote (check one) X 2/3 ≤ [Negative is addressed by change(s).] [Negative is not addressed by the change(s).] < 2/3 Motion To incorporate the technical change	je(s).		subsection GO TO "Final" subsection							
Result of Vote (check one) X 2/3 ≤ [Negative is addressed by change(s).] [Negative is not addressed by the change(s).] < 2/3 Motion To incorporate the technical change	je(s).		subsection GO TO "Final" subsection							
Result of Vote (check one) X 2/3 ≤ [Negative is addressed by change(s).] [Negative is not addressed by the change(s).] < 2/3 Motion To incorporate the technical change Motion by/2 nd by Ping Yan (Trina) / Tongrong Zhao (L.) Discussion None	je(s).		subsection GO TO "Final" subsection							

z			be used only "if the TC Chapter finds a Negative not persuasive by a vote of the persons voting on the action". (<i>Regulations</i> ¶ 9.6.4.4.2)							
Not Si	Use of "Not		It is mutually ag significant".	greed upon to term the Negative "not	GO TO "Final" subsection → (D)					
Significant	significant finding option" (check one)		It is mutually aq "significant".	greed upon to term the Negative	GO TO "Final" subsection → (C)					
Ī			Whether or not	the Negative is "not significant" is decide	ded by a vote.					
Finding	Motion	The	he Negative is "not significant".							
ng Opt	Motion by/ 2 nd by	Nan	ne (Company)/N	lame (Company)						
Option	Vote		XX Y-XX N; Mo	otion passed with simple majority	GO TO "Final" subsection → (D)					
	vote		XX Y-XX N; Mo	otion failed with simple majority	GO TO "Final" subsection → (C)					
			(A)	Withdrawn (counted under h in dis	sposition)					
			(B)	Not related (counted under i in dis	sposition)					
	(check if		(C)	Related and not persuasive (signific	cant)					
Fina	applicable)		(D)	Not significant (counted under j in	disposition)					
<u>a</u>			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS					
		Χ	(F)	Addressed by technical change (co	unted under k disposition)					
	(check if applicable)		Comment gene	erated. See Section V-(ii) Comment #	X.					

Negative	Referenced Section/ Paragraph	*TF	TC Chapter	to fill in, including text in the ballot if nec	essary.
	o.g. o.p.:		ginal complied.	lete Negative text (e.g., issue, justification	, suggestion) should be
e	Negative Text		• .	7 again is too general. Why not requiring a st d and processed by a computer?	andardized table which could
TF	input (optional)				
	Withdrawal	Х	No Negative	e withdrawal made by Voter.	GO TO "Related" subsection
	(check one)		Withdrawal MM/DD/YY	document received by Standards staff on YY.	GO TO "Final" subsection → (A)
		×	'Related' is	mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection
Rela	Motion and		Negative is	not related. (Needs ≥2/3 votes to pass.)	
Related	Reason (check one)		Reason	Not accept, because each computer define to include the key information can be, as a good template, the requirements of unity.	•

		otion 2 nd b		Name	e (Company))/Name (Compar	ny)			
	Di	scuss	sion							
				XX Y -XX N ; Motion passed/failed.						
		ult of	Vote	[Negative is r	not related.] < 2/	GO TO "Persuasive" subsection			
	(0:		o,	2	2/3 ≤ [Negati	≦ [Negative is not related.]			GO TO "Final" subsection → (B)	
			_	1	Negative is re	elated and persu	asive. (Needs >1/	3 votes to	o pass.)	
	i	otion Reasoneck o	on	1	Negative is re	ative is related and not persuasive. (Needs ≥2/3 votes to pass.)				
	, i		,	F	Reason					
 		otion 2 nd b	-	Ping	Yan (Trina) /	Tongrong Zhao	(LINYANG PV)			
Persuasive	Di	scuss	sion	None						
uasi				33 Y-	0 N; Motion	passed				
ve	Ros	Result of Vote			Negative is representation [Negative is represented]		Is a technical change recommended?	•	GO TO "Address by Technical Change Option" subsection	
		neck (Negative is rocessures.]	related and not < 2/3	(check one)		GO TO "Final" subsection → (E)	
		-				ve is related uasive.] < 90%	GO TO "Final" s	ubsection	n → (C)	
				Y		tive is related	GO TO "Not Sign	nificant F	inding Option" subsection	
	Tech	nical	Chang	je Red	commendat	ions				
A	Origi fields		ection/	parag	graph numb	er and at least o	one full sentence	are requi	ired in "FROM" and "TO"	
ddre		F	ROM:	Section	on/Paragrap	oh XXX				
ss by		1 1	ΓO: Se	ction/	tion/Paragraph xxx					
Tech	Techr	J	Justific	ation (If necessary)						
nical C	Technical Changes	F	ROM:	Section	Section/Paragraph XXX					
hange	anges	2	ΓO: Se	ction/Paragraph xxx						
Address by Technical Change Option		Justif		ation	(If necessa	ry)				
	Motic	<u> </u>			Negative	e is addressed by	the technical cha	nge(s).		
			/2 nd by	,		Negative is addressed by the technical change(s). Name (Company)/Name (Company)				
			/2 nd by	<u> </u>						

	Discu	ssion							
				XX '	XX Y-XX N; Motion passed/failed.				
	Result of Vote (check one)				2/3 ≤ [Ne change(s	egative is addressed by the technical s).]	GO TO "Incorporation of the Technical Change" subsection		
					[Negative change(s	e is not addressed by the technical	GO TO "Final" subsection → (E)		
		Motion		To i		te the technical change(s).			
	Inc. Te	Motion by/	2 nd by	Nan	ne (Comp	any)/Name (Company)			
	Incorporation of the Technical Change	Discussion	1						
	atio al C			XX '	Y-XX N; N	otion passed/failed.			
	n of th	Result o			90% ≤ [A	gree to incorporate.]	GO TO "Final" subsection → (F)		
	าe e	(check	one)		[Disagree	e to incorporate.]>10%	GO TO "Final" subsection → (E)		
Not Significant Finding	Use of "Not significant finding option" (check one)		nifica s muti	nt". ually agre	ed upon to term the Negative "not ed upon to term the Negative	GO TO "Final" subsection → (D) GO TO "Final" subsection → (C)			
ant F				"significant". Whether or not the Negative is "not significant" is decident.					
indi	-	Motion	The Ne	e Negative is "not significant".					
ng Op		otion by/ 2 nd by	Name (Comp	any)/Nam	ne (Company)			
Option		Vote	XX	(Y- X)	(N; Motio	n passed with simple majority	GO TO "Final" subsection → (D)		
		VOIC	XX	(Y-X)	(N; Motio	n failed with simple majority	GO TO "Final" subsection → (C)		
				(,	A)	Withdrawn <mark>(counted under h in dis</mark> p	oosition)		
				(В)	Not related (counted under i in disp	osition)		
	(0	check if		(C)	Related and not persuasive (significa	nt)		
Final		plicable)	X	(D)	Not significant <mark>(counted under j in d</mark>	isposition)		
<u>a</u>					E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS		
	,	la a de 17		(F)	Addressed by technical change (cou	nted under k disposition)		
	•	check if plicable)	Co	mmei	nt generat	red. See Section V-(ii) Comment # X			

Nega ve	Referenced Section/	*TF/TC Chapter to fill in, including text in the ballot if necessary.
jati e	Paragraph	

		*Original cor	nplete Negative tex	t (e.g., issue, jus	tification	, suggestion) should be			
	Negative Text	There are a lot of other shortcomings in the document, but due to time limitations I had to stop. In general, the document in its current shape would qualify only as a guide for testing modules not as a test method and I'd recommend to modify it for a guide in a first step. Later, with more experience, then if might be converted to a real test method.							
TF	input (optional)								
	Withdrawal	X No Nega	tive withdrawal made	e by Voter.		GO TO "Related" subsection			
	(check one)	Withdray MM/DD/	val document receive	ed by Standards st	taff on	GO TO "Final" subsection → (A)			
		X 'Related'	is mutually agreed u	ıpon. (Needs no r	notion.)	GO TO "Persuasive" subsection			
		Negative	e is not related. (Need	ds ≥2/3 votes to p	oass.)				
	Motion and Reason (check one)	Reason	steps and environmer For indoor testing practices in practices	nental requirement and outdoor testi e and are in line wordeficiencies, M	ts as in c ng, there ith the us	eration does not have any clear other chemical testing methods. e are still a variety of different e of Able to make a preliminary ufacturers in China have started			
Related	Motion by/ 2 nd by	Name (Comp	any)/Name (Compar	•					
	Discussion								
		XX Y-XX N; Motion passed/failed.							
	Result of Vote (check one)	[Negative	e is not related.] < 2/3		GO TO "Persuasive" subsection				
	(oncok onc)	2/3 ≤ [Ne	egative is not related.]		GO TO "Final" subsection → (B)			
		Negative	is related and persu	asive. (Needs >1/	/3 votes	to pass.)			
	Motion and Reason (check one)	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)							
	(Gricon Oric)	Reason	xxxx						
P	Motion by/ 2 nd by	Name (Comp	any)/Name (Compar	ny)					
ersu	Discussion								
Persuasive		XX Y-XX N; N	Motion passed/failed.	 					
e	Result 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)		e is related and not ve.] < 2/3	(check one)	N	GO TO "Final" subsection → (E)			
		2/3 ≤ [Ne	egative is related persuasive.] < 90%	GO TO "Final" s	ubsectio	` '			
		90% ≤ [N	legative is related persuasive.]	GO TO "Not Sign	nificant F	Finding Option" subsection			

	Took	-:-	al Chana	- D			adetions					
	Origi	Technical Change Recommendations Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.										
			FROM: \$: Section/Paragraph XXX								
	_	1	TO: Sec	ction	/Par	agra	ph xxx					
	echn		Justific	ation (If necessary)								
,	Technical Changes		FROM: \$	Sect	ion/	Para	graph XXX					
√dd	າan		=									
ress l	ges	2	TO: Sec	ction/Paragraph xxx								
Address by Technical Change Option			Justific	atio	ı (If	nece	essary)					
hnica	Motio	n				Neg	ative is addressed by the technical change(s).					
J C	Motio	n k	y/2 nd by	,		Nan	ne (Company)/Name (Company)					
hang	Disc											
e O _l						XX '	/ -XX N ; Motion passed/failed.					
ption	Result of Vote (check one)						2/3 ≤ [Negative is addressed by the technical change(s).]	GO TO "Incorporation of the Technical Change" subsection				
		(0	neok on	- ,			[Negative is not addressed by the technical change(s).] < 2/3	GO TO "Final" subsection → (E)				
		Мо	tion			To incorporate the technical change(s).						
	Inc	Mo	tion by/2	2 nd b	v	Name (Company)/Name (Company)						
	orp chi		Motion by/2 nd by Discussion				is (company)/rtains (company)					
	Incorpora Technica		, ou o o i o i i									
	tior					XX	Y-XX N; Motion passed/failed.					
	ncorporation of the Technical Change	ı	Result of				90% ≤ [Agree to incorporate.]	GO TO "Final" subsection → (F)				
	е	(check one					[Disagree to incorporate.]>10%	GO TO "Final" subsection → (E)				
Not							"if the TC Chapter finds a Negative not persons voting on the action". (<i>Regulations</i> ¶ 9.6.					
Signi	Us	e of	f "Not			mut nifica	ually agreed upon to term the Negative "not nt".	GO TO "Final" subsection → (D)				
Not Significant Finding Option	si findi	gnif ng	icant option" (one)			muti nifica	ually agreed upon to term the Negative unt".	GO TO "Final" subsection → (C)				
inc	(0)				Wh	ethei	or not the Negative is "not significant" is decide	d by a vote.				
ding		Vlot	ion	The	Neg	ative	is "not significant".					
Optio			n by/ by	Nam	ne (C	Comp	any)/Name (Company)					
nc	Vote				XX	Y-XX N; Motion passed with simple majority GO TO "Final" subsect → (D)						

		XX Y-XX N; Mc	otion failed with simple majority	GO TO "Final" subsection → (C)
		(A)	Withdrawn (counted under h in disp	oosition)
		(B)	Not related (counted under i in disp	osition)
	(check if	(C)	Related and not persuasive (significant)	
Final	applicable)	(D)	Not significant (counted under j in d	isposition)
al		(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		(F)	Addressed by technical change (cou	nted under k disposition)
	(check if applicable)	Comment gene		

This table is needed for each Negative.

Disposition of Voting Interest Reject 2

Check only when the Document has not been failed.

11	Original	num	ber (#) of Negatives	(g)		
0	Number	of N	egatives withdrawn		(h)	
0	Number	of N	egatives found not related		(i)	
#	Number of Negatives found not significant (j)					
#			egatives addressed by technic tsignificant)	al change (Negative	(k)	
			$\mathbf{g} - (\mathbf{h} + \mathbf{i} + \mathbf{j} + \mathbf{k}) = 0$	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 denominator of § VI. Approval Conditions Check		
			Reject without a Negative	Not Valid		

Voting Interest Reject 3 (Voting Interest Name: George, Kelly) Voter Reject 1 (Voter: George Kelly, BPS)

	Referenced Section/	TF/TC Chapter to fill in, including text in the ballot if ne	cessary.			
Ne	Paragraph					
Negative	Negative Text	Original complete Negative text (e.g., issue, justificatio copied.	n, suggestion) should be			
Ф		There is a potential conflict between this standard and IEC 60904 13, which is presently at DTS stage in TC82.				
TFi	input (optional)					
	Withdrawal	X No Negative withdrawal made by Voter.	GO TO "Related" subsection			
	(check one)	Withdrawal document received by Standards staff on MM/DD/YYYY.	GO TO "Final" subsection → (A)			

Related	Motion and Reason	X 'Related	' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection						
		Negative	e is not related. (Needs ≥2/3 votes to pass.)							
	(check one)	Reason								
	Motion by/ 2 nd by	Name (Comp	Name (Company)/Name (Company)							
	Discussion									
		XX Y-XX N; I	Motion passed/failed.							
	Result of Vote (check one)	[Negativ	e is not related.] < 2/3	GO TO "Persuasive" subsection						
	(check one)	2/3 ≤ [N	egative is not related.]	GO TO "Final" subsection → (B)						
		X Negative	e is related and persuasive. (Needs >1/3 votes	to pass.)						
		Negative	e is related and not persuasive. (Needs ≥2/3 vo	tes to pass.)						
Persuasive	Motion and Reason (check one)	Reason	We also understand that the EL standards specifications discussed at present. And we are also looking release of the standard. As the IEC standard we hope that our work can provide some use standard and to promote the photovoltaic ir explain some differences between these two sometical standard is mainly for the EL testing manufacturing enterprises. So a more detail resolution index grading requirements and comentioned. - Class A (1 lp / mm wire pairs) complies with scamera and multi-graph mosaic structure. - Class B (0.5 lp / mm line pairs) complies with pixel equipment. - Class C (0.25 lp / mm wire pairs) complies with pixel equipment. - Class C (0.25 lp / mm wire pairs) complies with pixel equipment. - Class C (0.25 lp / mm wire pairs) complies with pixel equipment. - Class C (0.25 lp / mm wire pairs) complies with pixel equipment. - Class C (0.25 lp / mm wire pairs) complies with pixel equipment. - Class C (0.25 lp / mm wire pairs) complies with pixel equipment. - Class C (0.25 lp / mm wire pairs) complies with pixel equipment. - Class C (0.25 lp / mm wire pairs) complies with pixel equipment. - Class C (0.25 lp / mm wire pairs) complies with pixel equipment. - Class C (0.25 lp / mm wire pairs) complies with pixel equipment. - Class C (0.25 lp / mm wire pairs) complies with pixel equipment. - Class C (0.25 lp / mm wire pairs) complies with pixel equipment. - Class C (0.25 lp / mm wire pairs) complies with pixel equipment. - Class C (0.25 lp / mm wire pairs) complies with pixel equipment. - Class C (0.25 lp / mm wire pairs) complies with pixel equipment. - Class C (0.25 lp / mm wire pairs) complies with pixel equipment. - Class C (0.5 lp / mm wire pairs) complies with pixel equipment. - Class C (0.5 lp / mm wire pairs) complies with pixel equipment. - Class C (0.5 lp / mm wire pairs) complies with pixel equipment. - Class C (0.5 lp / mm wire pairs) complies with pixel equipment. - Class C (0.5 lp / mm wire pairs) complies with pixel equipment. - Class C (0.5 lp / mm wire pairs) compli	forward to the development and is still in development process, ful advice for the upcoming IEC industry. Here we also want to standards. equipment used by PV module led description of the device's calibration testing methods are some new equipment with multish most single-camera and highes with some older equipment is provided for calibration. C power supply current settings, given to facilitate the EL image at the accumulation of a large statuses for more convenient entification technology. Onference in September 2014, at tested by several PV modules undergone several rounds of At present, some of the content dustry in china.						
	Motion by/ 2 nd by	Ping Yan (Tr	na) / Tongrong Zhao (LINYANG PV)							
	Discussion	None								
		33 Y -0 N ; Mo	otion passed							

	Result of Vote (check one) Result of Vote (personal decided of the personal d				egativersuasi s ≤ [Ned not p % ≤ [Nd not p mmer		_	nifica	ctio int F	GO TO "Address by Technical Change Option" subsection GO TO "Final" subsection → (E) n → (C) Finding Option" subsection	
Address by Technical Change Option	Technical Changes	1	New St by Elec TO: Sec New Si PV Moo Justifica 发送什人: 炒送: Si 大bengt.j 主题: Re Hi again I think a electrolu 	andar ctrolun ction/Pa cton/Pa ction/Pa	ragrad: Tony Tony Pul.co reject title wence you aghange	scence (EL) Image ph Title est Method for lectroluminesce essary) [mailto:solarexpert1:] 15 日 5:21 /QC(闫萍) <ping.yan <tony.sample@ec.="" m="" y="">; Hacke, Peter < y could be "Characteri (EL) imaging during gree? y my vote and recome graph XXX</ping.yan>	Identifying Cence (EL) Imaging Gence (EL) Ima	II De ing iang iang gov>	美道太 cry	Iline Silicon PV Modules ets in Crystalline Silicon # <michio.kondo@aist.go.jp> ng.ji@ul.com>; Bengt Jaeckel //stalline silicon PV modules by</michio.kondo@aist.go.jp>	
	Mati-				(If necessary)						
		Motion			Negative is addressed by the technical change(s).						
	Motic	on k	oy/2 nd by			Yan (Trina) / Tongro	ong Zhao (LINYAN	IG P\	/)		
	Discu	Discussion			Non	None					
					33 Y	-0 N ; Motion passed	<u> </u>		_		
	Result of Vote (check one)				X	2/3 ≤ [Negative is a change(s).]	ddressed by the te	chnic	al	GO TO "Incorporation of the Technical Change" subsection	

						[Negative	e is not addressed by the technical	GO TO "Final" subsection → (E)	
		Motion	Т	To incorporate the technical change(s).					
	Inc. Te	Motion by/2 nd by					na) / Tongrong Zhao (LINYANG PV)		
	orpo chn	Discussion	1	N	on	e			
	orati ical			0.0	0 V	O. N N	Section 1		
	on Ch					-U N ; IVIOT	tion passed	GO TO "Final" subsection	
	Incorporation of the Technical Change	Result of				90% ≤ [A	gree to incorporate.]	→ (F)	
	าe e	(check	one		[Disagree 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 m signifi		ally agreent".	GO TO "Final" subsection → (D)		
Not Significant Finding Option	findi	gnificant ng option" leck one)		It is m "signif			ed upon to term the Negative	GO TO "Final" subsection → (C)	
ιŧΕ	`	,		Whether or not the Negative is "not significant" is decided by a vote.					
ndii	Motion The Ne				Negative is "not significant".				
ng Op	Mo	ne (Company)/Name (Company)							
tion		Vote		XX Y-	XX	N; Motio	n passed with simple majority	GO TO "Final" subsection → (D)	
		VOIC		XX Y-	XX Y-XX N; Motion failed with simple majority			GO TO "Final" subsection → (C)	
					(/	A)	Withdrawn <mark>(counted under h in dis</mark> p	oosition)	
					(E	3)	Not related (counted under i in disp	osition)	
	(0	check if			(C) Related and not persuasive (nt)	
Final	ар	plicable)			(E	•	Not significant <mark>(counted under j in d</mark>	isposition)	
<u>a</u>					(E	=)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS	
			Χ		(F	=)	Addressed by technical change (cou	nted under k disposition)	
	(check if applicable)				Comment generated. See Section V-(ii) Comment # X.				

This table is needed for each Negative. Disposition of Voting Interest Reject 2

Check only when the Document has not been failed.

1	Original number (#) of Negatives	(g)
0	Number of Negatives withdrawn	(h)
0	Number of Negatives found not related	(i)
0	Number of Negatives found not significant	(j)
1	Number of Negatives addressed by technical change (Negative becomes not significant)	(k)

	X	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 denominator of § VI. Approval Conditions Check				
		Reject without a Negative	Not Valid				

IV. Other Technical Issues

None

V. Comments

V- (i) Voters' Comments

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

<u> </u>										
Comment	*TF	*TF/TC Chapter to fill in section/paragraph #, if necessary.								
۱į	Acc	AcceptComments, 290498 Vargas Bernal, Rafael, AFF ITSdI,								
ent		There are typing errors, spaces must be '' added in several places.								
	The	The TC Chapter agreed to do one of the following actions.								
	*No	motion is	requ	uired in this step.						
≽		Already a	ddres	ssed by Commenter #, Comment #						
Action		No further	actio	on was taken by the TC Chapter.						
-		Refer to th	Refer to the TF for more consideration.							
		New Busin	New Business							
	Х	Editorial C	Editorial Change							
		Options		Case 1: No vote in this section:						
		for		To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.						
		editorial		•						
		change (check	k X	Case 2: Voted in this section:						
		one)		Original section number and at least one full sentence are required in						
				"FROM" and "TO" fields.						
		FROM: S	ectio	on/Paragraph xxx						
μ										
dito	١,	TO: Sect	TO: Section/Paragraph xxx							
ria	1									
<u></u>			Justification (If necessary)							
Editorial Changes		We have	We have check all document each place and update the whole papers.							
ge										
5	2	FROM: S	ectio	on/Paragraph xxx						

	TO: Section/Paragraph xxx							
	Justificatio	tion (If necessary)						
Motion		To approve above editorial change(s)						
Motion b	oy/2 nd by	Ping Yan (Trina) / Tongrong Zhao (LINYANG PV)						
Discuss	ion	None						
Vote		33 Y-0 N; Motion passed						

This table is needed for each Comment.

Comment	*TF	*TF/TC Chapter to fill in section/paragraph #, if necessary.								
nent		ccept Comments, 336709 Wang, Chunhong AFF_Chunhong Wang uggestion: Module ID reader shall be included.								
	The	he TC Chapter agreed to do one of the following actions.								
	*No	motion is	requ	uired in this step.						
Þ		Already a	ddres	ssed by Commenter #, Comment #						
Action	Χ	No further	r actio	on was taken by the TC Chapter.						
ر		Refer to the	he TF	for more consideration.						
		New Busi	ness							
		Editorial C	Chan	ge						
		Options for editorial		Case 1: No vote in this section: To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.						
		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.						
		FROM: S	Section	on/Paragraph xxx						
Ed	1	TO: Sect	TO: Section/Paragraph 15.1.4							
Editorial Changes		Justifica	tion	(If necessary)						
hange		FROM: S	Section	on/Paragraph xxx						
8	2	TO: Sect	ion/F	Paragraph xxx						
		Justifica	Justification (If necessary)							

Motion	To approve above editorial change(s)
Motion by/2 nd by	Name (Company)/Name (Company)
Discussion	XXXX
Vote	XX Y-XX N; Motion passed/failed.

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	=	61	/	63	=	96.8%	≥90%

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

Note: See Regulations § 9.7.2 for further information.





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	This is not a Safety Document, when all safety-related information is removed, the Document is 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 no technically sound and complete. (<i>Regulations</i> ¶ 8.7.2)						
				ecklist (<i>Regulations</i> ¶ 15.3) is complete and has been included with the Document the balloting process. (<i>Regulations</i> ¶ 15.1.2)					
	Motion by/2 nd by			Ping Yan (Trina) / Tongrong Zhao (LINYANG PV)					
	Discussion			None					
	Vote			33 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. 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)										
Х		otentially n righted iter		patented technology or reproduction of lown.	GO TO SECTION X.					
	copy copy	ntially mate righted iter right releas ented to the	GO TO SECTION X.							
	use o	otentially material patented technology or reproduction of copyrighted items is known and se of such materials is technically justified by the TC Chapter, but an LOA or copyright elease letter for some of the item(s) has NOT been obtained or presented to the TC Chapte								
M		Ask ISC f	Ask ISC for special permission to publish.							
Motion		Quit activ	Quit activity.							
'n		Wait for L	OA for patented technology or release of copyrighted items.							
Mot	ion by	y/2 nd by	Name (Company)/Name (Company)							
	iscus	sion	XXXX							
	Vot	:e	XX Y-XX N							
	inal A	ction		Motion passed						
Final Action				Motion failed						

X. Action for This Document

			ment passed TC Chapter review as balloted and will be forwarded to the ISC A&R cedural review.						
M			his Document passed TC Chapter review with editorial changes and will be forwarded to the SC A&R SC for procedural review.						
Motion	X	editorial ch	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.						
		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		Ping Yan (Trina) / Tongrong Zhao (LINYANG PV)						
	Discussion Vote Final Action		None						
			33	Y-0 N					
F			Χ	Motion passed					
1 '				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:	
	Re	

^{*} 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.