Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: Korea

Global Technical Committee: FPD Metrology

TC Chapter Cochairs: Jongseo Lee/ Dell, II-Ho Kim/ LMS

Standards Staff: Natalie Shim

	Scheduled in Background Statement	Actual
Date	08/25/2017	08/25/2017
Location	SEMI Korea Office	SEMI Korea Office
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
5633F	New Standard, Test Method for Viewing Angle
	Characteristic Using Reference Color on Visual
	Displays

II. Tally

Standards staff to fill in.

Voting Tally: As-cast tally after close of voting period

Note: A minimum of 60% of the Voting Interests that have TC Members within the global technical committee that issued the Letter Ballot must return Votes. (*Regulations* ¶ 9.7.1.1)

Voting Tally (with example values):

Voting Interest:	Returned Votes		Distribution		Return Rate	
Letter Ballot	21	÷	33	=	63.6%	≥60%
Intercommittee Ballot	1					
Voting Interest Reject(s)	2		Total Vo	ters	with Rejects	2
Voting Interest Accept(s)	20					

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

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: Otsuka) Voter Reject 1 (Voter: Akira Kawaguchi / Otsuka)

	Referenced Section/		•	including text in the ballot if nec	essary.				
	Paragraph	5.2.2.1							
		*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.							
Negative	Negative Text	wind	dow area .lt should ma ght (4.2.4) • FOV:2 degree (ing directions (θ H) : 60° (5.2.3.2)					
TF	input (optional)								
	Withdrawal	X	No Negative withdray	val made by Voter.	GO TO "Related" subsection				
	(check one)		Withdrawal document MM/DD/YYYY.	GO TO "Final" subsection → (A)					
Z)	Motion and	X	'Related' is mutually a	agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection				
Related	Reason		Negative is not relate	d. (Needs ≥2/3 votes to pass.)					
ed	(check one)		Reason						
			Negative is related ar	nd persuasive. (Needs >1/3 votes	to pass.)				
		X	Negative is related ar	nd not persuasive. (Needs ≥2/3 vot	tes to pass.)				
Persuasive	Motion and Reason (check one)		Reason	It is just recommended in initial nin normal direction. Generally, the measurement concondition such as vantage point uniformity. Because FOV under number pixel unchanged regardly problem although FOV can be unangle.	ndition might treat in initial measurement condition for 2 degree is no problem, the ess of viewing angle is no				
	Motion by/ 2 nd by	Kyu	ngjin Kang (LG Electro	onics)/ Jongho Chong (Samsung D	isplay)				
	Discussion	Non	ie						

		4 Y -0 N ; Motion passed.										
	Result of Vote (check one)	[Negative is related an persuasive.] > 1/3		and Is a technical change recommended?			Υ	GO TO "Address by Technical Change Option" subsection				
			[Negative is related a persuasive.] < 2/3	and not	(check one)	X	N	GO TO "Final" subsection → (E)				
			2/3 ≤ [Negative is rela and not persuasive.]	< 90%	GO TO "Final" s	ubse	ctio	n → (C)				
		X	90% ≤ [Negative is re and not persuasive.]		_			inding Option" subsection				
z	This option can be used only "if the TC Chapter finds a Negative not persuasive by a vote equal to a greater than 90% of the persons voting on the action". (Regulations ¶ 9.6.4.4.2)											
lot Sig	Use of "Not	X	It is mutually agreed upon to term the Negative "not significant". GO TO "Final" subsection → (D)									
Not Significant Finding Option	significant finding option" (check one)		It is mutually agreed "significant".	•	GO TO "Final" subsection → (C)							
ξ			Whether or not the Negative is "not significant" is decided by a vote.									
ndir	Motion	The	Negative is "not signif	ficant".								
η Op	Motion by/ 2 nd by	Kyuı	ngjin Kang (LG Electro	onics)/ J	ongho Chong (Sai	msur	ıg Di	splay)				
tion	Vote	X	4 Y-0 N; Motion passed with simple majority					GO TO "Final" subsection → (D)				
	Vote		XX Y-XX N; Motion fa	ailed with		GO TO "Final" subsection → (C)						
			(A) Wi	ithdrawn	(counted under	h in (disp	osition)				
			(B) No	ot related	(counted under	i in c	lispo	osition)				
	(check if		(C) Re	elated an	d not persuasive ((signi	ficar	t)				
Final	applicable)	X	` '		ant (counted und		in di	sposition)				
al			(E) ad	Related and persuasive and not addressed by technical change				DOCUMENT FAILS				
	()		(F) Ad	ldressed	by technical chan	ige (c	oun	ted under k disposition)				
	(check if applicable)		Comment generated.	See Se	ction V-(ii) Comn	nent	# .					

z	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary. 5.2.4.2
legative	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. It is inappropriate to express colorrimetric accuracy with Δxy. For example, it should be written as follows. "chromaticity accuracy of 0.002 for xy"
TF	input (optional)	i of example, it should be written as follows. Chromaticity accuracy of 0.002 for xy

	Withdrawal		No Negative withdrawal	made	e by Voter.			GO TO "Related" subsection	
	(check one)		Withdrawal document received by Standards staff on MM/DD/YYYY.					GO TO "Final" subsection → (A)	
		X	'Related' is mutually agre	GO TO "Persuasive" subsection					
	Motion and Reason		Negative is not related. (Nee	ds ≥2/3 votes to p	ass.)		
	(check one)		Reason	XXX	(
Rel	Motion by/ 2 nd by	Nan	ne (Company)/Name (Cor	mpar	ny)				
Related	Discussion	XXX	ΧX						
		XX	Y-XX N; Motion passed/fa	ailed.					
	Result of Vote (check one)		[Negative is not related.]	< 2/:	3			GO TO "Persuasive" subsection	
	(3 33 3 3)		2/3 ≤ [Negative is not rela	ated.]			GO TO "Final" subsection → (B)	
		X	Negative is related and p	ersu	asive. (Needs >1/	3 vo	tes t	o pass.)	
	Motion and Reason (check one)		Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)						
			Reason	(XXX	(
P	Motion by/ 2 nd by	Kyu	ngjin Kang (LG Electronic	s)/ J	ongho Chong (Sar	nsun	ıg Di	splay)	
ersı	Discussion	Non	е						
Persuasive		4 Y-	0 N ; Motion passed.						
Ve	Result of Vote	X	[Negative is related and persuasive.] > 1/3		Is a technical change recommended?	X	Υ	GO TO "Address by Technical Change Option" subsection	
	(check one)		[Negative is related and persuasive.] < 2/3		(check one)		N	GO TO "Final" subsection → (E)	
			2/3 ≤ [Negative is related and not persuasive.] < 90		GO TO "Final" s	ubse	ctio	n → (C)	
			90% ≤ [Negative is related and not persuasive.] GO TO "Not Significant Finding Option" subsecti						
_	Technical Chang	je R	ecommendations						
Addr echnic	Original section/ fields.	para	agraph number and at le	ast o	one full sentence	are	requ	ired in "FROM" and "TO"	
Original section/paragraph number and at least one full sentence are refields. FROM: Section/Paragraph 5.2.2.1 FROM: Section/Paragraph 5.2.2.1 5.2.2.1 It requires the photometric accuracy of the LMD within ±2% and contains the photometric accu						colo	rimetric accuracy within ±0.002 in		

TO: Section/Paragraph 5.2.2.1 5.2.2.1 It requires the photometric accuracy of the LMD within $\pm 2\%$ and chromaticity accuracy within ± 0.002 for x, y. Justification (If necessary) This is not a technical modification but expression changing which is widely using for LMD specification in accuracy evaluation. In section 5.2.4.2, "colorimetric" has general meaning for metrology of color, whereas "chromaticity" means a specific term for the hue and saturation of color. And, "for x, y" is a general expression of LMD while "in Δxy " is a calculated value for the evaluation of color accuracy rather than LMD's specification Motion Negative is addressed by the technical change(s). Motion by/2nd bv Kyungjin Kang (LG Electronics)/ Jongho Chong (Samsung Display) None Discussion 4 Y-0 N; Motion passed. GO TO "Incorporation of the 2/3 ≤ [Negative is addressed by the technical **Result of Vote** Technical Change" change(s).] (check one) subsection GO TO "Final" subsection [Negative is not addressed by the technical change(s).] < 2/3 **→** (E) Motion To incorporate the technical change(s). ncorporation of the Technical Change Motion by/2nd by Kyungjin Kang (LG Electronics)/ Jongho Chong (Samsung Display) Discussion None 4 Y-0 N; Motion passed. GO TO "Final" subsection 90% ≤ [Agree to incorporate.] **Result of Vote** (check one) GO TO "Final" subsection [Disagree to incorporate.]>10% → (E) This option can be used only "if the TC Chapter finds a Negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action". (Regulations ¶ 9.6.4.4.2) z

ot Sig	Use of "Not		It is mutually agre significant".	eed upon to term the Negative "not	GO TO "Final" subsection → (D)
Significant	significant finding option" (check one)		It is mutually agre "significant".	eed upon to term the Negative	GO TO "Final" subsection → (C)
			Whether or not th	ne Negative is "not significant" is decide	d by a vote.
Finding	Motion	The	Negative is "not s	significant".	
	Motion by/ 2 nd by	Nan	ne (Company)/Nai	me (Company)	
Option	Vote		XX Y-XX N; Motion	on passed with simple majority	GO TO "Final" subsection → (D)
	vote		XX Y-XX N; Motion	on failed with simple majority	GO TO "Final" subsection → (C)
			(A)	Withdrawn (counted under h in disp	osition)
Fin	(check if		(B)	Not related (counted under i in disp	osition)
<u>a</u>	applicable)		(C)	Related and not persuasive (significan	nt)
			(D)	Not significant (counted under j in di	sposition)

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

Disposition of Voting Interest Reject 1

Check only when the Document has not been failed.

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

Note: If all of the Negatives included with a Reject Vote are withdrawn, determined to be not related, or determined to be not significant, the Reject Vote is not valid. (*Regulations* ¶ 9.4.3.3) Note: A Negative addressed by a technical change is automatically considered to be not significant. (*Regulations* ¶ 9.6.4.4.2)

Voting Interest Reject 2 (Voting Interest Name: KonicaMinolta) Voter Reject 1 (Voter: Yoshihiro Nishikawa/KonicaMinolta)

ITCG	ative 1					4 10					
	Referenced	*TF	TC Chapter to fill in, in	cludi	ng text in the ball	lot if	nec	essary.			
	Section/ Paragraph	4.2.4									
	Paragraph										
Negative			ginal complete Negativied.	/e tex	t (e.g., issue, just	tifica	tion	, suggestion) should be			
jati		-			. 5	<i></i> .					
Ve	Negative Text	Ihis	s section is a terminology	/ chap	oter. Recommenda	tion i	s no	t suitable for this chapter.			
			gestion)								
			ete following sentence. " een height."	In this	measurement, it is	s rec	omn	nended as 3 times of the			
		SCIE	en neight.								
TF	input (optional)										
	Withdrawal	X	No Negative withdrawa	l mad	e by Voter.			GO TO "Related" subsection			
	(check one)		Withdrawal document r MM/DD/YYYY.	eceiv	ed by Standards st	aff o	n	GO TO "Final" subsection → (A)			
R	Motion and	X	'Related' is mutually ag	reed ı	upon. (Needs no n	notio	n.)	GO TO "Persuasive" subsection			
Related	Reason		Negative is not related.	(Nee	ds ≥2/3 votes to p	ass.)				
ted	(check one)		Reason								
			Reason								
			Negative is related and	persu	uasive. (Needs >1/	3 vot	tes t	o pass.)			
	Motion and Reason	X	Negative is related and	not p	ersuasive. (Needs	≥2/3	vot	es to pass.)			
	(check one)										
			Reason		listance of 3 times libe for this docume		e sci	reen height is just specified to			
				uesci	ibe for this docum	ent.	IL.				
۱ "	Motion by/	Kvu	ngjin Kang (LG Electron	ics)/ J	ongho Chong (Sai	msun	a Di	splay)			
Pers	2 nd by		<u> </u>				3				
	Discussion	Non									
uasive		4 Y-	0 N ; Motion passed		<u> </u>						
			[Negative is related and	ı	le e technical		Υ	GO TO "Address by			
			[Negative is related and persuasive.] > 1/3	ı	Is a technical change		•	Technical Change Option"			
	Result of Vote		1		recommended?			subsection			
	(check one)		[Negative is related and	l not	(check one)	Χ	N	GO TO "Final" subsection			
			persuasive.] < 2/3 2/3 ≤ [Negative is relate	ed				→ (E)			
			and not persuasive.] <	90%	GO TO "Final" s	ubse	ctio	n → (C)			
		X	90% ≤ [Negative is rela and not persuasive.]	ted	GO TO "Not Sign	nifica	nt F	inding Option" subsection			
(0	This option can	be u		apter	finds a Negative	not n	ersi	uasive by a vote equal to or			
Not Sign			the persons voting on								

	Use of "Not	X	It is mutually ag significant".	greed upon to term the Negative "not	GO TO "Final" subsection → (D)			
	significant finding option" (check one)		It is mutually a "significant".	greed upon to term the Negative	GO TO "Final" subsection → (C)			
			Whether 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	Kyu	ngjin Kang (LG	Electronics)/ Jongho Chong (Samsung D	Display)			
	Vote	X	4 Y -0 N ; Motion	n 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 disp	sposition)			
			(B)	Not related (counted under i in disp	oosition)			
	(check if		(C)	Related and not persuasive (significa	int)			
Fina	applicable)	X	(D)	Not significant (counted under j in d	lisposition)			
<u>a</u>			(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 generated. See Section V-(ii) Comment # .					

Ū	Referenced	*TF	TC Chapter to fill in, including text in the ballot if nec	essary.					
	Section/ Paragraph		5.2.2.1						
Ne			ginal complete Negative text (e.g., issue, justification ied.	, suggestion) should be					
Negative	Negative Text	2 De	egree of FOV is not correct. Please see ICDM Annex 1 Fi	g. 1.					
	Negative Text	Plea pixe	Suggestion) Please change: the distance can be calculated and set that an LMD should include over 500 pixels of display at measurement Field. And Measurement Field Angle shall be less than 2 degrees.						
TF	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)					
R	Motion and	X	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection					
Related	Reason		Negative is not related. (Needs ≥2/3 votes to pass.)						
ed	(check one)		Reason						
	Motion and Reason		Negative is related and persuasive. (Needs >1/3 votes t	co pass.)					

	(check one)	X Negative	is related and	not pe	ersuasive. (Needs	≥2/3 vo	otes to pass.)
		Reason		It is de FOV.	escribe for the nun	nber of	pixel at the condition of 2 degree
	Motion by/ 2 nd by	Kyungjin Kang	(LG Electron	ics)/ J	ongho Chong (Sar	msung I	Display)
Per	Discussion	None					
sua		4 Y-0 N; Motic	n passed				
Persuasive	Result of Vote	[Negative persuasiv	is related and e.] > 1/3	d	ls a technical change recommended?	Y	GO TO "Address by Technical Change Option" subsection
	(check one)		is related and	not	(check one)	X	GO TO "Final" subsection → (E)
			gative is relate ersuasive.] < 9		GO TO "Final" s	ubsecti	
		y 90% ≤ [Ne	egative is rela ersuasive.]		GO TO "Not Sign	nificant	Finding Option" subsection
_					finds a Negative tition". (<i>Regulatio</i>		suasive by a vote equal to or 6.4.4.2)
Vot Siç	Use of "Not	X It is mutua	ally agreed up t".	GO TO "Final" subsection → (D)			
Not Significant Finding Option	significant finding option" (check one)	It is mutua "significar		on to t	term the Negative		GO TO "Final" subsection → (C)
nt Fi	(chicon chic)	Whether	or not the Neg	ative i	s "not significant"	is decid	ed by a vote.
ndi	Motion	The Negative i	is "not signific	ant".			
ng Op	Motion by/ 2 nd by	Kyungjin Kang	(LG Electron	ics)/ J	ongho Chong (Sar	msung [Display)
tion	Vote	X 4 Y-0 N; N	Motion passed	l with s	simple majority		GO TO "Final" subsection → (D)
	1010	XX Y -XX	N; Motion faile	ed with	simple majority		GO TO "Final" subsection → (C)
		(A) With	drawn	(counted under l	h in dis	position)
		(B			(counted under		<u> </u>
_	(check if	(C	•		d not persuasive (,
Final	applicable)	X (D	•		ant (counted und		disposition)
<u> </u>		(E	addro	essed	d persuasive and by technical chan	ge	DOCUMENT FAILS
	(check if	(F			-		inted under k disposition)
	applicable)	Comment	generated. S	ee Se	ction V-(ii) Comm	nent#.	

Neg ve	Referenced Section/	*TF/TC Chapter to fill in, including text in the ballot if necessary.
gati e	Paragraph	5.2.4.2

	Negative Text	"The in Δ colo define Sug Plea	ied. e photometric accuracy oxy". This requirement is a reference of the control of the measurement error gestion)	of the lambigue accur accur accur at Sou RGB E Source s-RGE	LMD within ±2% a uous. Because LM uracy is worse in priewing angle. After acy requirement: If the process of the control of the process of the control of the process of th	nd co ID's a rima r that	olorir accui ry cc t clar case	metric accuracy within ±0.002 racy depend on the DUT's plor measurement. Please rify the LMD requirement. of measuring White & Primary
			requirement at lower	er lum	inance. etc.			
TF	input (optional)							
	Withdrawal	X	No Negative withdrawa	l made	e by Voter.			GO TO "Related" subsection
	(check one)		Withdrawal document r	eceive	ed by Standards st	aff o	n	GO TO "Final" subsection → (A)
71		X	'Related' is mutually ag	reed u	ıpon. (Needs no n	notic	on.)	GO TO "Persuasive" subsection
Related	Motion and Reason		Negative is not related.	(Need	ds ≥2/3 votes to p	ass.	.)	
ted	(check one)		Reason					
			Negative is related and	persu	asive. (Needs >1/	3 vo	tes t	o pass.)
	Motion and Reason	X	Negative is related and	not pe	ersuasive. (Needs	≥2/3	8 vot	es to pass.)
	(check one)				or LMD's accuracy leasurement.	to a	stan	dard DUT and the patterns in
Per	Motion by/ 2 nd by	Kyu	ngjin Kang (LG Electron	ics)/ J	ongho Chong (Sai	nsur	ng Di	splay)
sua	Discussion	Non	е					
Persuasive		4 Y-	0 N ; Motion passed					
	Result of Vote		[Negative is related and persuasive.] > 1/3	d 	Is a technical change recommended?		Υ	GO TO "Address by Technical Change Option" subsection
	(check one)		[Negative is related and persuasive.] < 2/3	not	(check one)	X	N	GO TO "Final" subsection → (E)
			2/3 ≤ [Negative is relate and not persuasive.] < 9		GO TO "Final" s	ubse	ectio	
		X	90% ≤ [Negative is rela and not persuasive.]		GO TO "Not Sig	nifica	ant F	Finding Option" subsection

z				e TC Chapter finds a Negative not per ting on the action". (<i>Regulations</i> ¶ 9.	
Not Sig	Use of "Not	X	It is mutually aલ significant".	greed upon to term the Negative "not	GO TO "Final" subsection → (D)
Significant	significant finding option" (check one)		It is mutually aલ્ "significant".	greed upon to term the Negative	GO TO "Final" subsection → (C)
t Fi			Whether or not	the Negative is "not significant" is decid	led by a vote.
Finding	Motion	The	Negative is "no	t significant".	
ηg Op	Motion by/ 2 nd by	Kyu	ngjin Kang (LG	Electronics)/ Jongho Chong (Samsung	Display)
Option	Vote	X	4 Y -0 N ; Motion	n 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	position)
	(check if		(C)	Related and not persuasive (signification	ant)
Final	applicable)	X	(D)	Not significant (counted under j in	disposition)
<u>a</u>			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
			(F)	Addressed by technical change (cou	unted under k disposition)
	(check if applicable)		Comment gene	erated. See Section V-(ii) Comment # .	

Ĭ	Referenced	*TF/	TC Chapter to fill in, including text in the ballot if nec	essary.
	Section/ Paragraph	7.1.3	3	
		*Ori cop	ginal complete Negative text (e.g., issue, justification ied.	, suggestion) should be
Negative			Yn, Zn should not be measured at each viewing Angle. X rence value should be same value during this method. Pl	
9	Negative Text		 gestion) se change following sentence. From: white patch those are measured at each view To: white patch those are measured at θH =0 φV=0. value such as BT 2020 or sRGB NTSC so on. 	
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)
e R	Motion and Reason	X	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection

	(check one)		Negative is not related	. (Nee	ds ≥2/3 votes to p	ass.	.)	
			Reason					
			Negative is related and persuasive. (Needs >1/3 votes to pass.)					
	Motion and	X	Negative is related and	d not p	ersuasive. (Needs	≥2/3	vot	es to pass.)
	Reason (check one)		Reason	Wher white	the condition succriteria is also cha	ch as	s vie I. IEC	us values at a certain condition. wing direction is changed, the CPT 62977-3-1 will be changed meeting, May, 2017.
Persuasive	Motion by/ 2 nd by	Kyu	ngjin Kang (LG Electro	nics)/ J	ongho Chong (Sai	msur	ng Di	splay)
asi	Discussion	Non	е					
Ve		4 Y-	0 N ; Motion passed					
	Result of Vote		[Negative is related an persuasive.] > 1/3	d	Is a technical change recommended?		Y	GO TO "Address by Technical Change Option" subsection
	(check one)		[Negative is related an persuasive.] < 2/3		(check one)	X	N	GO TO "Final" subsection → (E)
			2/3 ≤ [Negative is relat and not persuasive.] <	90%	GO TO "Final" s	ubse	ectio	n → (C)
		X	90% ≤ [Negative is rela and not persuasive.]	ated	GO TO "Not Sign	nifica	ant F	inding Option" subsection
			sed only "if the TC Ch					uasive by a vote equal to or
	greater than 90%	of t	the persons voting on	the ac	ction". (<i>Regulatio</i>	ns ¶	9.6.	4.4.2)
lot Siç	Use of "Not	X	It is mutually agreed upon to term the Negative "not significant".					GO TO "Final" subsection → (D)
Not Significant Finding Option	significant finding option" (check one)		It is mutually agreed upon to term the Negative "significant". GO TO "Final" subsection → (C)					GO TO "Final" subsection → (C)
nt Fi	(Griddik Grid)		Whether or not the Ne	gative	is "not significant"	is de	cide	d by a vote.
ndi	Motion	The	Negative is "not signific	cant".				
ng Op	Motion by/ 2 nd by	Kyu	ngjin Kang (LG Electroi	nics)/ J	ongho Chong (Sai	msur	ng Di	splay)
tion	Vote	X	4 Y-0 N; Motion passe	d with	simple majority			GO TO "Final" subsection → (D)
	Vote		XX Y-XX N; Motion fai	led witl	h simple majority			GO TO "Final" subsection → (C)
			(A) With	ndrawn	(counted under	h in	disp	osition)
			(B) Not	related	d (counted under	i in c	dispo	osition)
Final	(check if		(C) Rela	ated ar	nd not persuasive (signi	ficar	nt)
<u>าล</u>	applicable)	X	` '		cant <mark>(counted und</mark>		in di	sposition)
			(E) add	ressed	nd persuasive and by technical chan	ge		DOCUMENT FAILS
			(F) Add	ressed	by technical chan	ge (d	coun	ted under k disposition)

(check if applicable)	Comment generated. See Section V-(ii) Comment # .

9	ative 5							
	Referenced Section/	*TF/	TC Chapter to fill in, in	cludi	ng text in the ball	ot if	nece	essary.
z	Paragraph	Tabl	le 3					
Negative	Negative Text	cop	ied.					y viewing angle. Please
TFi	nput (optional)							
	Withdrawal	X	No Negative withdrawa	l mad	e by Voter.			GO TO "Related" subsection
	(check one)		Withdrawal document r	eceive	ed by Standards st	aff or	า	GO TO "Final" subsection → (A)
Ŗ	Motion and	X	'Related' is mutually ag	reed ι	ıpon. (Needs no n	notio	n.)	GO TO "Persuasive" subsection
Related	Reason		Negative is not related.	(Nee	ds ≥2/3 votes to p	ass.)	
ted	(check one)		Reason					
			Negative is related and	persu	asive. (Needs >1/	3 vot	tes t	o pass.)
	Motion and Reason	X	X Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)					
	(check one)		Reason		ge Δ <i>E00</i> means that able 3.	ne ari	ithme	etic mean of all Δ <i>E00</i> in Table
Pe	Motion by/ 2 nd by	Kyuı	ngjin Kang (LG Electron	ics)/ J	ae Hong Kim (LG	Displ	ay)	
Persuasive	Discussion	Non	е					
Vist		4 Y-	0 N ; Motion passed					
е	Result of Vote		[Negative is related and persuasive.] > 1/3	i	Is a technical change recommended?		Υ	GO TO "Address by Technical Change Option" subsection
	(check one)		[Negative is related and persuasive.] < 2/3	l not	(check one)	X	N	GO TO "Final" subsection → (E)
			2/3 ≤ [Negative is relate and not persuasive.] < 9	90%	GO TO "Final" s	ubse	ctio	n → (C)
		X	90% ≤ [Negative is rela and not persuasive.]					inding Option" subsection
Not Significan			sed only "if the TC Cha he persons voting on					uasive by a vote equal to or 4.4.2)
วt īican		X	It is mutually agreed up significant".	on to	term the Negative	"not		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 no	t the Negative is "not significant" is de	ecided by a vote.
	Motion	The	Negative is "no	ot significant".	
	Motion by/ 2 nd by	Kyu	ngjin Kang (LG	Electronics)/ Jongho Chong (Samsu	ng Display)
	Vote	X	4 Y- 0 N ; Motio	n passed with simple majority	GO TO "Final" subsection → (D)
	vote		XX Y-XX N; M	otion failed with simple majority	GO TO "Final" subsection → (C)
е П	(check if	(A)		Withdrawn (counted under h in	disposition)
	. = 1		Not related (counted under i in	Not related (counted under i in disposition)	

Disposition of Voting Interest Reject 2

Check only when the Document has not been failed.

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

Note: If all of the Negatives included with a Reject Vote are withdrawn, determined to be not related, or determined to be not significant, the Reject Vote is not valid. ($Regulations \ \P \ 9.4.3.3$)
Note: A Negative addressed by a technical change is automatically considered to be not significant. ($Regulations \ \P \ 9.6.4.4.2$)

IV. Other Technical Issues

Note: TC Chapter may choose to address a technical issue that is not part of a Negative received on a Letter Ballot (i.e., a Comment or a reason not addressed by a Vote response) by handling it as a Negative and finding it related and technically persuasive. The TC Chapter may then fail the Document or address such technical issue by using the procedure defined in *Regulations* § 9.6.4.3 to make a technical change to the Document. (*Regulations* ¶ 9.6.2.4.5)

	Origin		TTC Chapter to choose mment from Jongseo Lee(Dell) during the TC chapter meeting	g on August 25, 2017					
_	Referenced	*TF	TTC Chapter to fill in including text in the ballot as approp	oriate.					
echn	Section/ Paragraph	5.2.							
Technical Issue			iginal Comment text, if applicable, and problem statement suggestion, should be copied.	t, including justification					
sue	Reason	rega situ	section 5.2.2.1, "at 2 degree" was to provide a fixed and conve ardless of various size of displays. However, the ranged meas ation of setup as long as within 2 degree FOV in normal direct fusion in the measuring distance.	suring distance for the					
Han	dle technical issu	ue ide	entified above as a Negative.						
		X	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection					
	Motion and		Negative is not related and assigned to TF. (Needs ≥2/3 vo						
	Reason		Negative is not related and placed on agenda of current TC business. (Needs ≥2/3 votes to pass.)	Chapter meeting as new					
	(check one)		business. (Needs 2270 Votes to pass.)						
			Reason						
Related	Motion by/ 2nd by	Name (Company)/Name (Company)							
=									
ed	Discussion	XXX	XX						
ed	Discussion		Y-XX N						
ed	Result of Vote			GO TO "Persuasive" subsection					
ed			Y-XX N [Negative is not related.] <2/3 2/3 ≤ [Negative is not related] and assigned to TF.	subsection					
ed	Result of Vote		Y-XX N [Negative is not related.] <2/3						
ed	Result of Vote (check one)	XX	Y-XX N [Negative is not related.] <2/3 2/3 ≤ [Negative is not related] and assigned to TF. 2/3 ≤ [Negative is not related] and placed on agenda of	subsection GO TO "Final" subsection → (B)					
	Result of Vote	XX	Y-XX N [Negative is not related.] <2/3 2/3 ≤ [Negative is not related] and assigned to TF. 2/3 ≤ [Negative is not related] and placed on agenda of current TC Chapter meeting as new business.	subsection GO TO "Final" subsection → (B) pass.)					
	Result of Vote (check one) Motion and Reason	XX	Y-XX N [Negative is not related.] <2/3 2/3 ≤ [Negative is not related] and assigned to TF. 2/3 ≤ [Negative is not related] and placed on agenda of current TC Chapter meeting as new business. Negative is related and persuasive. (Needs >1/3 votes to p	subsection GO TO "Final" subsection → (B) pass.)					
ed Persuasive	Result of Vote (check one) Motion and Reason	x	Y-XX N [Negative is not related.] <2/3 2/3 ≤ [Negative is not related] and assigned to TF. 2/3 ≤ [Negative is not related] and placed on agenda of current TC Chapter meeting as new business. Negative is related and persuasive. (Needs >1/3 votes to publication) Negative is related and not persuasive. (Needs ≥2/3 votes to publication)	subsection GO TO "Final" subsection → (B) pass.) to pass.)					
	Result of Vote (check one) Motion and Reason (check one)	x	Y-XX N [Negative is not related.] <2/3 2/3 ≤ [Negative is not related] and assigned to TF. 2/3 ≤ [Negative is not related] and placed on agenda of current TC Chapter meeting as new business. Negative is related and persuasive. (Needs >1/3 votes to possible is related and not persuasive. (Needs ≥2/3 votes is related and not persuasive.)	subsection GO TO "Final" subsection → (B) pass.) to pass.)					

	Result of Vote (check one) [Ne personal line [Ne personal line					egative is related and rsuasive.] > 1/3			Is a technical change	X	Υ	GO TO "Address by Technical Change Option" subsection		
							ive is relate sive.] < 2/3		recommended? (check one)		N	GO TO "Final" subsection → (E)		
						≤ [١	Subsection → (C) Subsection → (C) GO TO "Final" subsection → (C)							
	Tech	nnic	al Chan	ge R		commendations								
			FROM: 5.2.2.1 I degree F	over 500 pixels of display at 2										
	Technical Changes	1	5.2.2.1 I	TO: Section/Paragraph 5.2.2.1 5.2.2.1 It is recommended that the measuring distance of LMD is set to include over 500 pixels of display within 2 degree FOV in normal direction.										
Þ	Cha	•	Justifi	catio	n (If	nec	cessary)							
ddre	ango		This me	adifia	otion	io :	for giving a	n additional	evacation for the	2000	uron	pont actur which is to svoid		
SSe	es											nent setup which is to avoid was to provide a fixed and		
by .				convenient measuring distance regardless of various size of displays. But the measuring distance can										
Гес			have a range for the situation of setup as long as within 2 degree FOV in normal direction.											
1nic	Motion					Negative is addressed by the technical change(s).								
al C	Motion by/2 nd by					Kyungjin Kang (LG Electronics)/ Jongho Chong (Samsung Display)								
hanç	Discussion						None							
je O						4 \	Y -0 N ; Moti	on passed.						
Address by Technical Change Option	Result of Vote (check one)					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)		
		M	otion			To incorporate the technical change(s).								
	Inco Teo	М	otion by	/2 nd	by	Kyungjin Kang (LG Electronics)/ Jongho Chong (Samsung Display)								
	orpo chni	Di	scussio	n		None								
	ratic cal (4 Y -0 N ; Motion passed.								
	Incorporation of the Technical Change		Result of Vote			X	90% ≤ [Ag	gree to incorp	oorate.]			GO TO "Final" subsection → (F)		
	the ge		(check one)			[Disagree to incorpo		to incorpora	te.] >10%			GO TO "Final" subsection → (E)		
		<u> </u>					(B)	Not related				Cassocion / (L)		
						` '			ated and not persuasive					
Fina	(check one)					(E)			nd persuasive and not			DOCUMENT FAILS		
nal		X				au			Addressed by technical change Addressed by technical change					
	(0	(check if												
	•	applicable)			mment generated. See Section V-(ii) Comment # .									

V. Comments None

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

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

None

VII. Approval Conditions Check

VII. - (i). Approval Rate

APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (*Regulations* ¶ 9.7.1.2)

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	=	20	/	22	=	90.9%	≥90%

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

Note: See Regulations § 9.7.2 for further information.

	Globally Approved (No Ratification Ballot needed): The Letter Ballot meets the Letter Ballot approval conditions for the global technical committee.
X	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 s	This 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)								
			Safety Checklist (<i>Regulations</i> ¶ 15.3) is complete and has been included with the Document throughout the balloting process. (<i>Regulations</i> ¶ 15.1.2)								
	Motion by/2 nd by			Kyungjin Kang (LG Electronics)/ Jongho Chong (Samsung Display)							
	Discussion			None							
	Vote			4Y-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.

X	mate	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)								
	X		otentially m righted iten		patented technology or reproduction of own.	GO TO SECTION X.				
		Potentially material patented technology or reproduction of copyrighted items is known, but a Letter of Assurance (LOA) or copyright release letter for such items has been obtained or presented to the TC Chapter.								
		use	ntially material patented technology or reproduction of copyrighted items is known and of such materials is technically justified by the TC Chapter, but an LOA or copyright se letter for some of the item(s) has NOT been obtained or presented to the TC Chapter.							
	~		Ask ISC f	or special permission to publish.						
	Motion		Quit activ	tivity.						
	Š		Wait for L	OA for patented technology or release of copyrighted items.						
	Mot	ion b	y/2 nd by	Name (Company)/Name (Company)						
		iscus	sion	XXXX						
		Vot	te	XX Y-XX N						
	Final Action				Motion passed					
					Motion failed					

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

X. Action for This Document

Moti	This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
ion	This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.

	X	editorial ch	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. An Ballot will be issued to verify the technical changes.				
This Document failed TC Chapter review and will be returned to the TF for rew							
	This Document failed TC Chapter review and work will be discontinued.						
	Motion by/ 2 nd by		Kyungjin Kang (LG Electronics)/ Jongho Chong (Samsung Display)				
	Discussion Vote Final Action		None				
			4 Y-0 N				
F			X Motion passed Motion failed				

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

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