#### Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: Korea

**Global Technical Committee: FPD Metrology** 

TC Chapter Cochairs: Kyungjin Kang / LG Electronics, Jongho Chog / KwangWoon University

**Standards Staff: Natalie Shim** 

	Scheduled in Background Statement	Actual
Date	03/12/2021	03/26/2021
Location	SEMI Korea, Seoul, Korea	SEMI Korea, Seoul, Korea and OVTCCM
Reason for Change of Date and/or Location (if changed)	Force majeure caused by the corona vid	rus.

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

#### I. Document Number and Title

<b>Document Number</b>	Document Title
6644B	New Standard, Test Method for Viewing Angle of Flat
	Panel 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* ¶ 9.6.2.1.1)

#### **Voting Tally:**

Voting Interest:	Returned Votes		Distribution		Return Rate	
Letter Ballot	30	ŀ	47	=	63.8%	≥60%
Intercommittee Ballot	1	]				
Voting Interest Reject(s)	2		Total	Vote	rs with Rejects	2
Voting Interest Accept(s)	28					

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

# III. Rejects

# Voting Interest Reject 1 (Voting Interest Name: Sony) Voter Reject 1 (Voter: Satoshi Tomioka / Sony) Negative 1

l <u>egative</u>	1					
	Referenced Section/ Paragraph	*TF/	/TC Chapt	ter to fill in, including text in the ballot if ne	cessary.	
Negative		sho The	explanation	on of "52 degrees" has just been moved to "Re	elated Information	
	Negative Text	"664 Sind	14A". ce this doc cription ba	ralidly referenced, which is unchanged from the ument is a "Test Method", the specification an sed on it should be removed2, 4.2.5, 4.2.6, 8.1.2, 8.2.4, 8.3.5.		
TF	input (optional)					
	Withdrawal	X	No Negat	tive withdrawal made by Voter.	GO TO "Related" subsection	
	(check one)		Withdraw MM/DD/Y	al document received by Standards staff on YYYY.	GO TO "Final" subsection → (A)	
	Motion and Reason	X	'Related'	GO TO "Persuasive" subsection		
	(check one)		Negative			
			Reason	xxxx		
Related	Motion by/ 2 <sup>nd</sup> by	Name (Company) / Name (Company)				
ated	Discussion					
		XX	Y - XX N;	Motion passed/failed		
	Result of Vote (check one)		[Negative	is not related.] < 2/3	GO TO "Persuasive" subsection	
			2/3 ≤ [Ne	gative is not related.]	GO TO "Final" subsection →	
			Negative	is related and persuasive. (Needs >1/3 votes	to pass.)	
Pers	Motion and Reason	X Negative is related and not persuasive. (Needs ≥2/3 votes to p				
Persuasive	(check one)		According to the definition of viewing angle in Section 4.2.5 requires a specified threshold to test and decide the view angle of displays. It is an example of the threshold in case of 8k resolution UHDTV (See ISO standards referred in t document).			
	I.			,		

	Motion by/ 2 <sup>nd</sup> by	Kyu	ng Jin Kan	g (LG Electronics) / Myon	g Young Lee	(LG I	Electronics)	
	Discussion	Non	e					
		6 Y-	0 N; Motio	n passed.				
			[Negative   persuasive	is related and e.] > 1/3	Is a technical change recommen		GO TO "Add by Technica Change Opt subsection	ıl ion"
	Result of Vote (check one)		[Negative in persuasive	is related and not e.] < 2/3	ded? (check one)		N GO TO "Fina subsection (E)	
			2/3 ≤ [Neg persuasive	ative is related and not e.] < 90%	GO TO "Fin	al" s	subsection → (	(C)
		X	90% ≤ [Ne persuasive	gative is related and not e.]	GO TO "Not Option" sub		nificant Findin tion	g
Not				e TC Chapter finds a Ne persons voting on the				
Not Significant Finding Option	Use of "Not significant	X	It is mutua the Negati	GO TO "Final" subsection → (D)			(D)	
nificant Option	finding option" (check one)		It is mutua the Negati	GO TO "Final" subsection → (C)			(C)	
¬ #	,	Whether or not the Negative is "not significant" is decided by a vote.						
ind	Motion	The	Negative i	is "not significant".				
ing	Motion by/ 2 <sup>nd</sup> by	Name (Company) / Name (Company)						
	Vote		simple ma		GO TO "Fin	al" s	subsection → (	(D)
	vote		XX <b>Y</b> -XX <b>N</b> ; Motion failed with simple majority		GO TO "Final" subsection → (C)			(C)
			(A)	Withdrawn (counted un	der h in dispo	ositi	on)	
			(B)	Not related (counted un	nder i in disposition)			
	(check if		(C)	Related and not persuas	sive (significant)			
Final	applicable)	X	(D)	Not significant (counted	under j in di	spos	sition)	
<u>a</u>			(E) Related and persuasive by technical change					
			(F)	Addressed by technical o	change <mark>(coun</mark> t	ted ι	ınder k dispos	ition)
	(check if applicable)		Comment	Comment generated. See Section V-(ii) Comment # X.				

This table is needed for each Negative.

## **Disposition of Voting Interest Reject 1**

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)
1	Number of Negatives found not significant	(j)

0			f Negatives addressed by technical change (Negative not significant) (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					
			Reject without a Negative	Not Valid					

# Voting Interest Reject 2 (Voting Interest Name: JAD) Voter Reject 1 (Voter: Ryoichi Watanabe / JAD) Negative 1

galive i							
	Referenced Section/			er to fill in, including text in the ballot if ne	cessary.		
Ne	Paragraph	5.2.1					
Negative		*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.					
	Negative Text		ntact LMD"	is not necessary.			
TF inp	ut (optional)						
	thdrawal	X	No Negati	ive withdrawal made by Voter.	GO TO "Related" subsection		
(ch	(check one)		Withdrawa MM/DD/Y	al document received by Standards staff on YYY.	GO TO "Final" subsection → (A)		
	Motion and	X	'Related' is mutually agreed upon. (Needs no motion.) "Persuas subsections"				
	Reason (check one)	Negative i		is not related. (Needs ≥2/3 votes to pass.)			
	(check one)		Reason XXXX				
Related	Motion by/ 2 <sup>nd</sup> by	Name (Company) / Name (Company)					
ated	Discussion						
		XX '	<b>Y</b> – <b>XX N</b> ; I	Motion passed/failed			
	Result of Vote (check one)		[Negative is not related.] < 2/3		GO TO "Persuasive" subsection		
			2/3 ≤ [Negative is not related.]		GO TO "Final" subsection →		
Pe			Negative i	is related and persuasive. (Needs >1/3 votes	to pass.)		
Persuasive	Motion and Reason (check one)	X Negative		is related and not persuasive. (Needs ≥2/3 vo	tes to pass.)		
ve	(1 1111 211)		Reason Contact LMD is also available when the accuracy is guarant				

	Motion by/ 2 <sup>nd</sup> by	Kyu	ng Jin Kan	g (LG Electronics) / Myon	g Young Lee (	(LG	EI:	ectronics)
	Discussion	Non	е					
		6 Y-	0 N; Motio	n passed.				
			[Negative i persuasive	is related and e.] > 1/3	Is a technical change recommen			GO TO "Address by Technical Change Option" subsection
	Result of Vote (check one)		[Negative i persuasive	is related and not e.] < 2/3	ded? (check one)		N	GO TO "Final" subsection → (E)
			persuasive					bsection → (C)
		X	persuasive		Option" sub	se	ctic	
Not		be used only "if the TC Chapter finds a Negative not persuasive by a vote ter than 90% of the persons voting on the action". (Regulations						
Signi	Use of "Not significant	X	It is mutua the Negati	GO TO "Final" subsection → (D)				
Not Significant Finding Option	finding option"		It is mutua the Negati	GO TO "Final" subsection → (C)			bsection → (C)	
_ <u></u>	(check one)	Whether or not the Negative is "not significant" is decided by a vote					ed by a vote.	
indi	Motion	The	Negative i	is "not significant".				
ing	Motion by/ 2 <sup>nd</sup> by	Nan	ne (Compai	ny) / Name (Company)				
	Vote		XX Y-XX N simple ma	GO TO "Final" subsection → (D)				
	Vote		XX Y-XX N simple ma	I; Motion failed with jority	GO TO "Final" subsection → (C)			
			(A)	Withdrawn (counted une	nder h in disposition)			1)
			(B)	Not related (counted un	der i in dispo	sit	ion	)
	(check if		(C)	Related and not persuas	ive (significan	t)		
Final	applicable)	X	(D)	Not significant (counted	under j in dis	spc	sit	ion)
<u> </u>			(E)	and not addressed DOCUMENT FAILS			FAILS	
			(F)	Addressed by technical o	hange <mark>(count</mark>	ed	un	der k disposition)
	(check if applicable)		Comment	generated. See Section	V-(ii) Comme	nt :	# X	•

This table is needed for each Negative.

## **Disposition of Voting Interest Reject 1**

Check only when the Document has not been failed.

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0	Number of Negatives found not related	(i)
1	Number of Negatives found not significant	(j)

0			f Negatives addressed by technical change (Negative not significant) (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 denominator of § VI.  Approval Conditions Check						
			Reject without a Negative	Not Valid						

# IV. Other Technical Issues None

## **V. Comments**

# V- (i) Voters' Comments

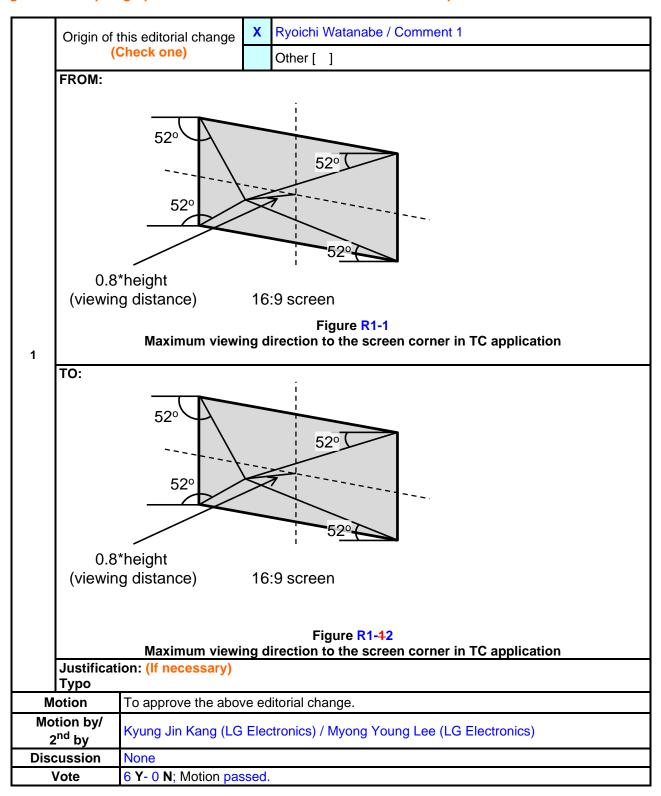
Commenter 1 (Ryoichi Watanabe / JAD) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.								
nent	There are two "Figure R1-1"								
	Th	e TC Chapt	ter a	greed to do one of the following actions.					
	*No	*No motion is required in this step.							
Þ		Already addressed by Commenter #, Comment #							
Action		No further action was taken by the TC Chapter.							
		Refer to the TF for more consideration.							
	New Business								
	X Editorial Change								
		Options	X	Case 1: No vote in this section:					
		for editorial		To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.					
		change (check		Case 2: Voted in this section:					
		one)		Original section number and at least one full sentence are required in "FROM" and "TO" fields.					

This table is needed for each Comment accompanied a Vote

#### 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.



# VII. Approval Conditions Check

#### VII. - (i). Approval Rate

APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (*Regulations* ¶ 9.6.2.1.2)

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

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	28	/	28	=	100.0%	≥90%

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

Note: See Regulations § 9.6.2 for further information.

X

#### Globally Approved (No Ratification Ballot needed):

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



#### **Need a Ratification Ballot:**

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

## **VIII. Safety Check**

Note: See Regulations § 15 for further information.

	X	<b>This is not a Safety Document</b> , when all safety-related information is removed, the Document is still technically sound and complete. ( <i>Regulations</i> ¶ 8.7.1)							
Motior		<b>This is a Safety Document</b> , 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)							
Мо	Motion by/2 <sup>nd</sup> by		2 <sup>nd</sup> by	Kyung Jin Kang (LG Electronics) / Myong Young Lee (LG Electronics)					
Discussion			ion	None					
Vote			6 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. Regardless of the coverage, this IP check applies to the entire Standard or Safety Guideline\*. See *Regulations* § 16 for further information.

X	The TC Chapter meeting chair asked those participating, if they were aware of any patented technology that might be relevant (see <i>Regulations</i> ¶ 16.3.1.1) to the Standard or Safety Guideline; or, any copyrighted items or trademarks that are used/reproduced (see <i>Regulations</i> ¶ 16.4.1.2) in the Standard or Safety Guideline. (Also see, <i>Regulations</i> § 8.8)							
	X	The question is NOT answered in affirmative (No potentially material patented technology or use/reproduction of copyrighted items/trademarks is known.)	GO TO SECTION X.					
		The question is answered in affirmative	Is any of the known IPs a patented		Yes, at least one of them is a patented technology	GO TO IX (a) "Patented Technology" subsection		
			technology?		No	GO TO IX (b) "Copyright items" subsection		

## X. Action for This Document

		This Document passed TC Chapter review as balloted and will be forwarded to the ISC A8 SC for procedural review.					
M	X		his Document passed TC Chapter review with editorial changes and will be forwarded to the SC A&R SC for procedural review.				
Motion		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 Docu	nis Document failed TC Chapter review and work will be discontinued.				
ı	Motion by/ 2 <sup>nd</sup> by		Kyung Jin Kang (LG Electronics) / Myong Young Lee (LG Electronics)				
Discussion			None				
Vote			6 Y- 0 N				
-	Final Action		X Motion passed				
Filiai Action		ACIIOII	Motion failed				

Note: If the use of PMPT or copyrighted item is justified by the TC Chapter, LOA or release form must be received before publication can proceed.