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

Region/Locale: China

**Global Technical Committee: HB-LED** 

TC Chapter Cochairs: Yong Ji/GHTOT, Weizhi Cai/SANAN

Standards Staff: Sophia Huang/ SEMI China

	Scheduled in Background Statement	Actual
Date	10/14/2016	10/14/2016
Location	Dandong, Liaoning, China Friend Plaza Hotel Dandong	Dandong, Liaoning, China Friend Plaza Hotel Dandong
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

<b>Document Number</b>	Document Title
	New Standard: Specification for Single Crystal
	Sapphire Intended for Use for Manufacturing HB- LED
	Wafers

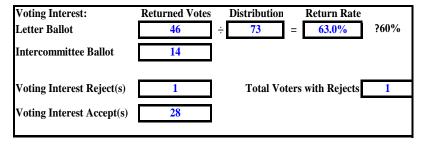
## II. Tally

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):



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

## III. Rejects

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

1109	ative 1										
	Referenced Section/ Paragraph	*TF/	TC Chapter to fill in, i	ncluding text in the ballot if ned	cessary.						
Negative	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.  The document attempts to specify basic properties of sapphire, but is inconsistent would be much better to include these specifications in a document specifying sapphire ingots or specifying wafers. In the latter case it is recommended to revise HB-1. Therefore it is requested that HB-1 is revised and the material in doc5723A is included in HB-1 or in doc5775. Doc5723A is then superfluous.									
TF	input (optional)										
	Withdrawal	Х	No Negative withdrawa	al made by Voter.	GO TO "Related" subsection						
	(check one)		Withdrawal document MM/DD/YYYY.	received by Standards staff on	GO TO "Final" subsection → (A)						
	Motion and	×	'Related' is mutually aç	greed upon. (Needs no motion.)	GO TO "Persuasive" subsection						
	Reason		Negative is not related								
	(check one)		Reason	xxxx							
Rel	Motion by/ 2 <sup>nd</sup> by	Nan	ne (Company)/Name (C	ompany)							
Related	Discussion										
		XX '	Y-XX N; Motion passed	/failed.							
	Result of Vote (check one)		[Negative is not related	1.] < 2/3	GO TO "Persuasive" subsection						
			2/3 ≤ [Negative is not r	elated.]	GO TO "Final" subsection → (B)						
			Negative is related and	persuasive. (Needs >1/3 votes	to pass.)						
	Motion and	X	Negative is related and	not persuasive. (Needs ≥2/3 vo	·						
Persuasive	Reason (check one)		Reason	Doc5723A specify properties at suitable for HB-LED and it does or geometry of the sapphire. Do orientation for sapphire ingot, requirements for sapphire wafe clash with them.	s not define the physical shape oc5775A specify dimension and Standard HB-1 specifies the						
	Motion by/ 2 <sup>nd</sup> by	Liuy	run Qi (GHTOT)/Xinhon	g Yang (AURORA)							
	Discussion	Non	e								
	Result of Vote	38 <b>\</b>	38 <b>Y</b> -0 <b>N</b> ; Motion passed								

			F											
	[Neg pers					ative is related and lasive.] > 1/3  Is a technical change recommended?  ative is related and not lasive.] < 2/3  [Negative is related]  Is a technical change subsection    Y   GO TO "Address by Technical Change subsection   O TO "Final" subsection								
						≤ [Negative is related go TO "Final" subsection → (C)								
				000/		/ [Nagative is related								
					GO TO "Not Significant Finding Option" subsection not persuasive.]									
	Tech	nica	al Chang			ndations								
	Origi fields		section/	paragra	oh ni	umber and at least	one full sentence	are r	equired in "FROM" and "TO"					
			FROM: S	Section/l	Para	graph XXX								
		1	TO: Sec	O: Section/Paragraph xxx										
	echni		Justific	ustification (If necessary)										
Ac	Technical Changes		FROM: \$	Section/I	Paragraph XXX									
Address by Technical Change	Inges	2	TO: Section/Paragraph xxx											
oy Tech			Justific	ation (If	nece	essary)								
nica	Motio	on			Negative is addressed by the technical change(s).									
ıl Ch	Motio	on k	y/2 <sup>nd</sup> by	i	Name (Company)/Name (Company)									
ange	Disc	ussi	ion											
_					XX Y-XX N; Motion passed/failed.									
Option			sult of Vo			2/3 ≤ [Negative is acchange(s).]	ddressed by the te	chnica	rechnical Change"					
						[Negative is not addressed by the technical change(s).] < 2/3			subsection					
						change(s).] < 2/3	ressed by the tech	nical	GO TO "Final" subsection  → (E)					
		Мо	otion		To i		•	nical	GO TO "Final" subsection					
	Inco		otion otion by/2	2 <sup>nd</sup> by		change(s).] < 2/3	nical change(s).	nical	GO TO "Final" subsection					
	Incorpora Technic	Мо				change(s).] < 2/3 ncorporate the tech	nical change(s).	nical	GO TO "Final" subsection					
	Incorporatio Technical C	Мо	tion by/2		Nam	change(s).] < 2/3 ncorporate the tech	nical change(s). (Company)	nical	GO TO "Final" subsection					
	Incorporation of tl  Technical Chang	Mo	otion by/2 scussion Result of	f Vote	Nam	change(s).] < 2/3 ncorporate the techne (Company)/Name	nical change(s). (Company) ed/failed.	nical	GO TO "Final" subsection					
	Incorporation of the Technical Change	Mo	otion by/2 scussion	f Vote	Nam	change(s).] < 2/3 ncorporate the techne (Company)/Name  Y-XX N; Motion pass	nical change(s). (Company) ed/failed. prporate.]	nical	GO TO "Final" subsection  → (E)  GO TO "Final" subsection					
Significan t Finding	ge This	Mo	etion by/2 scussion Result of (check	f Vote one)	Nam XX `	change(s).] < 2/3 ncorporate the techne (Company)/Name  Y-XX N; Motion pass  90% ≤ [Agree to incorporate the techne (Company)/Name	nical change(s). (Company)  ed/failed.  prporate.]  rate.]>10%  finds a Negative I	not pe	GO TO "Final" subsection  → (E)  GO TO "Final" subsection  → (F)  GO TO "Final" subsection  → (E)  ersuasive by a vote equal to or					

	finding option" (check one)		It is mutually a	greed upon to term the Negative	GO TO "Final" subsection → (C)		
			Whether or not	the Negative is "not significant" is decid	ed by a vote.		
	Motion	The	Negative is "no	t significant".			
	Motion by/ 2 <sup>nd</sup> by	Nan	ne (Company)/N	lame (Company)			
	Vote		XX Y-XX N; M	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	lisposition)		
			(B)	Not related (counted under i in dis	position)		
	(check if	Χ	(C)	Related and not persuasive (signification	ant)		
Final	applicable)		(D)	Not significant (counted under j in	disposition)		
a			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS		
			(F)	Addressed by technical change (cou	ınted under k disposition)		
	(check if applicable)		Comment gene	erated. See Section V-(ii) Comment # >	ζ.		

This table is needed for each Negative.

	Referenced	*TF/	TC Chapter to fill in, including text in the ballot if nec	essary.							
	Section/ Paragraph	Sec	Section 3.1								
Negative		*Ori cop	ginal complete Negative text (e.g., issue, justification ied.	, suggestion) should be							
ive	Negative Text	§ 3.1: this sentence has no value and is in contrast to section 6 where diameter (of a wafer, I guess) is requested for ordering information. This belongs in a wafer specification document. The authors should finally decide what kind of specification they want to generate, for wafers or for ingots. In addition, what is the meaning of "the sapphire"?									
TFi	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)							
	Motion and	×	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection							
	Reason		Negative is not related. (Needs ≥2/3 votes to pass.)								
Rel	(check one)		Reason								
Related	Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (Company)									
	Discussion										
	Result of Vote	XX '	Y-XX N; Motion passed/failed.								

	(cł	neck	cone)	[	Negative is not related	.] < 2/	3		GO TO "Persuasive" subsection			
				2	2/3 ≤ [Negative is not re	elated	 .]		GO TO "Final" subsection			
					egative is related and persuasive. (Needs >1/3 votes to pass.)							
						yanve is related and persuasive. (ineeds > 1/3 votes to pass.)						
			n and	X	Negative is related and	gative is related and not persuasive. (Needs ≥2/3 votes to pass.)						
	(cł	neck	son ( one)	F	Reason	Doc5723 is used to specify which suitable for HB-LED wafers. It's properties and defect. The shape specified here. It can be any shape wafers, or bricks and rectangle wafers wafers in the many shape wafers.			t's just focusing on material pe of sapphire material is not pe such like 2inch ingots, 4inch			
Persuasive	M	otio 2 <sup>nd</sup>	n by/ by	Liuyu	n Qi (GHTOT)/Xinhong	y Yanç	g (AURORA)					
iser	Di	scu	ssion	None								
ve				38 <b>Y</b> -	0 N; Motion passed		<del> </del>		1			
	Ros	ult í	of Vote		Negative is related and persuasive.] > 1/3				GO TO "Address by Technical Change Option" subsection			
			( one)	ŗ	Negative is related and persuasive.] < 2/3		(check one)	N	GO TO "Final" subsection → (E)			
					2/3 ≤ [Negative is relate and not persuasive.] < 9		GO TO "Final" s	ubsectio	n → (C)			
					90% ≤ [Negative is rela and not persuasive.]	not persuasive.]			Finding Option" subsection			
		nal			commendations graph number and at I	least (	one full sentence	are requ	iired in "FROM" and "TO"			
Ac			FROM:	Section	on/Paragraph XXX							
ldres		1	TO: Se	ction/l	Paragraph xxx							
s by <sup>-</sup>	Technical		Justific	ation	(If necessary)							
Гесһ	nical		FROM:	Section	on/Paragraph XXX							
nica	Changes											
Cha	nges	2	TO: Se	ction/l	Paragraph xxx							
\ddress by Technical Change Option			Justific	ation	(If necessary)							
tion	Moti	on			Negative is address	sed by	the technical cha	nae(s).				
			y/2 <sup>nd</sup> by	<u> </u>	Name (Company)/N			3-(-/-				
	Disc				, , , , , , , , , , , , , , , , , , , ,							
		Res	sult of V	ote	XX Y-XX N; Motion	n pass	sed/failed.					

		(check on	<b>e</b> )			2/3 ≤ [Ne	egative is addressed by the technical	GO TO "Incorporation of the		
						change(s		Technical Change" subsection		
						[Negative change(s	e is not addressed by the technical s).] < 2/3	GO TO "Final" subsection → (E)		
		Motion			To incorporate the technical change(s).					
	Inco Teo	Motion by/	2 <sup>nd</sup> k	ру	Nam	e (Comp	any)/Name (Company)			
	Incorporation of the Technical Change	Discussion	1							
	itioi al C				XX Y	/-XX <b>N</b> ; N	Notion passed/failed.			
	ո of th hang	Result o				90% ≤ [A	gree to incorporate.]	GO TO "Final" subsection → (F)		
	,	(check					e to incorporate.]>10%	GO TO "Final" subsection → (E)		
	This great	option can er than 90%	be u	sed the p	only erso	"if the Tons votin	C Chapter finds a Negative not pers g on the action". ( <i>Regulations</i> ¶ 9.6.	uasive by a vote equal to or .4.4.2)		
Z								•		
ot Siç	Us	e of "Not			mutu ificar		ed upon to term the Negative "not	GO TO "Final" subsection → (D)		
Not Significant Finding Option	findi	significant inding option" (check one)		It is mutually agreed upon to term the Negative "significant".				GO TO "Final" subsection → (C)		
t Fi	•	(0.10011 0.110)			ether	or not the	e Negative is "not significant" is decide	ed by a vote.		
ndi	ľ	Motion	The	ne Negative is "not significant".						
ng Op	Mo	otion by/ 2 <sup>nd</sup> by	Nan	ne (C	e (Company)/Name (Company)					
tion		Vote		XX	Y-XX	N; Motio	n passed with simple majority	GO TO "Final" subsection → (D)		
		VOLE		XX	Y-XX	N; Motio	n failed with simple majority	GO TO "Final" subsection → (C)		
					(/	4)	Withdrawn (counted under h in disp	osition)		
					(1	3)	Not related (counted under i in dispe	osition)		
	(0	check if	Χ		((	C)	Related and not persuasive (significar	nt)		
Final		plicable)			(I	<b>)</b>	Not significant (counted under j in di	isposition)		
<u>a</u>						Ξ)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS		
1					(1	F)	Addressed by technical change (cour	nted under k disposition)		
	(check if applicable)				omment generated. See Section V-(ii) Comment # X.					

Negati	Section/	*TF/TC Chapter to fill in, including text in the ballot if necessary.  Section 4
Ve	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.

		All test methods mentioned in section 4 are either general test methods or test methods for different materials and not test methods for sapphire wafers or ingots. Specifics for applying these test methods to sapphire are missing in the document. E.g. SEMI M36 requires etching of a test specimen for delineating the etch pits. I assume that etchant solution, temperature and etching time for sapphire are different as compared to GaAs.									
TF	input (optional)										
	Withdrawal	Х	No Negative withdrawa	GO TO "Related" subsection							
	(check one)		Withdrawal document ro	aff on	GO TO "Final" subsection → (A)						
		X	'Related' is mutually ag	reed ι	ıpon. <mark>(Needs no n</mark>	notion.)	GO TO "Persuasive" subsection				
	Motion and Reason		Negative is not related.	(Nee	ds ≥2/3 votes to p	ass.)					
	(check one)		Reason	XXXX	<						
Rel	Motion by/ 2 <sup>nd</sup> by	Nan	ne (Company)/Name (Co	ompar	ny)						
Related	Discussion										
		XX '	XX <b>Y</b> -XX <b>N</b> ; Motion passed/failed.								
	Result of Vote (check one)		[Negative is not related.	.] < 2/	3		GO TO "Persuasive" subsection				
			2/3 ≤ [Negative is not re	elated	.]		GO TO "Final" subsection → (B)				
			Negative is related and	persu	asive. (Needs >1/	3 votes	to pass.)				
	Motion and Reason	Х	Negative is related and	not p	ersuasive. (Needs	≥2/3 vo	tes to pass.)				
	(check one)		Reason	for sa		e have m	n 4 are used to as a reference nodified the testing condition for				
P	Motion by/ 2 <sup>nd</sup> by	Liuy	run Qi (GHTOT)/Xinhong	y Yanç	g (AURORA)						
Persuasive	Discussion	Non	е								
asiv		38 Y	7-0 N; Motion passed		1						
ė	Result of Vote		[Negative is related and persuasive.] > 1/3	I	Is a technical change recommended?	Y	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 relate and not persuasive.] < 9	90%	GO TO "Final" s	ubsectio	on → (C)				
		X	90% ≤ [Negative is related and not persuasive.]	ted	GO TO "Not Sign	nificant l	Finding Option" subsection				
Technica			ecommendations  agraph number and at I	east (	one full sentence	are requ	uired in "FROM" and "TO"				

	Technical Changes	1	TO: Sec	ction	/Par	agra							
	hanges	2	TO: Section/Paragraph xxx  Justification (If necessary)										
	Motion Negative is addressed by the technical change(s).												
	Motio	n k	y/2 <sup>nd</sup> by	7		Nan	ne (Comp	any)/Name (Comp	any)				
	Disc	ıssi	ion										
						XX '	<b>Y-XX N</b> ; №	lotion passed/faile	d.				
			sult of Vo			2/3 ≤ [Negative is addressed by the technical change(s).]				GO TO "Incorporation of the Technical Change" subsection			
							[Negative change(s	e is not addressed c).] < 2/3	by the technical	GO TO "Final" subsection → (E)			
	_		tion			To i	ncorpora	e the technical ch	nange(s).				
	nco Tec	Мо	tion by/	2 <sup>nd</sup> b	by Name (Company)/Name (Company)								
	Incorporation of Technical Chan	Dis	scussion	1									
	atio al C					XX Y-XX N; Motion passed/failed.							
	ncorporation of the Technical Change	ı	Result o			90% ≤ [Agree to incorporate.]		e.]	GO TO "Final" subsection → (F)				
	the ige		(check	one)			[Disagree	e to incorporate.]>1	10%	GO TO "Final" subsection → (E)			
_									Negative not pers ( <i>Regulations</i> ¶ 9.6.	uasive by a vote equal to or 4.4.2)			
Vot Sig	Us	e of	"Not			muti ifica		ed upon to term the	e Negative "not	GO TO "Final" subsection → (D)			
Not Significant Finding Option	findi	ng	icant option" ( one)	X		muti nifica		ed upon to term the	e Negative	GO TO "Final" subsection → (C)			
it Fi							or not the	e Negative is "not s	significant" is decide	d by a vote.			
ndir	Motion The Negative is "not significant".												
ıg Opt	M	otio 2 <sup>nd</sup>	n by/ by	Nam	ne (C	omp	any)/Nam	ne (Company)					
tion		Vo	te		XX	Y-X>	(N; Motio	n passed with simp	ole majority	GO TO "Final" subsection → (D)			
		••			XX	Y-X>	N; Motio	n failed with simple	e majority	GO TO "Final" subsection → (C)			
Fin al			ck if			(	<b>A)</b>	Withdrawn (count	ed under h in disp	osition)			
<b>–</b> 5	ар	plic	able)			(	В)	Not related (coun	ted under i in disp	osition)			

		Χ	(C) Related and not persuasive (significant)						
			(D)	disposition)					
			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS				
			(F)	Addressed by technical change (cou	unted under k disposition)				
	<b>X</b> .								

	Referenced Section/	*TF/TC Chapter to fill in	, including text in the ballot if neo	essary.						
Nec	Paragraph	Section 5.2.1								
Negative	Negative Text	copied.	explanation or discussion, which	,						
TFi	input (optional)	definitions and have to	be removed							
	Withdrawal	X No Negative withdra	wal made by Voter.	GO TO "Related" subsection						
	(check one)	Withdrawal docume MM/DD/YYYY.	nt 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 related. (Needs ≥2/3 votes to pass.)								
	(check one)	Reason	xxxx							
Rel	Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (Company)								
Related	Discussion									
		XX <b>Y</b> -XX <b>N</b> ; Motion passed/failed.								
	Result of Vote (check one)	[Negative is not rela	[Negative is not related.] < 2/3							
	(chicon chic)	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)	X Negative is related a	and not persuasive. (Needs ≥2/3 vo	tes to pass.)						
Persuasive	(Check one)	Reason	Reason Doc5723A uses bubble type, sh §5.2.1 to define the bubble defe							
ive	Motion by/ 2 <sup>nd</sup> by	Liuyun Qi (GHTOT)/Xinh	ong Yang (AURORA)							
	Discussion	None								
	Result of Vote	38 Y-0N; Motion passed								

	•										
	(ch	necl	cone)	[Ne pers	gativ suasi ≤ [Ne	Is a technical change recommended?   Y   GO TO "Address by Technical Change Option" subsection   N   GO TO "Final" subsection   N   GO TO "Final" subsection   O TO "Final"					
						persuasive.]	GO TO "Not Sign	nifica	ant Finding Option" subsection		
	Tech	nic	al Chanc		nmendations						
		nal					one full sentence	are r	required in "FROM" and "TO"		
			FROM:	Section/	Para	graph XXX					
	_	1	TO: Se	ction/Par	Paragraph xxx						
	Techni		Justific	ation (If	nece	necessary)					
Ac	Technical Changes		FROM: Section/Paragraph XXX								
Address by Technical Change	ınges	2	TO: See	ction/Par	agra	ph xxx					
oy Tech			Justific	ation (If	nece	essary)					
nica	Motio	n			Neg	ative is addressed by	y the technical cha	inge(s	s).		
ıl Ch	Motio	on k	y/2 <sup>nd</sup> by	1	Name (Company)/Name (Company)						
ange	Disc	ıss	ion								
					XX '	Y-XX N; Motion pass	sed/failed.				
Option			sult of V			2/3 ≤ [Negative is a change(s).]	ddressed by the te	chnic	subsection		
						[Negative is not add change(s).] < 2/3	ressed by the tech	nical	GO TO "Final" subsection → (E)		
		Мс	tion		To incorporate the technical change(s).						
	Inco Tec	Мс	tion by/	2 <sup>nd</sup> by	Nan	ne (Company)/Name	(Company)				
	Incorporation of Technical Chan	Dis	scussion	1							
	tion				XX '	Y-XX N; Motion pass	ed/failed.				
	ncorporation of the Technical Change		Result o			90% ≤ [Agree to inc	orporate.]		GO TO "Final" subsection → (F)		
	е		(check one)			[Disagree to incorporate.]>10%			GO TO "Final" subsection → (E)		
+ <u>છ</u>									persuasive by a vote equal to or		
Significan t Finding	great	er t	nan 90%	or the p	erso	ons voting on the a	cuon". ( <i>Regulatio</i>	ns¶	9.0.4.4.2)		
jicai Jing	Use of "Not It is significant sign					mutually agreed upon to term the Negative "not ficant".			GO TO "Final" subsection → (D)		

	finding option" (check one)	Х	It is mutually a	greed upon to term the Negative	GO TO "Final" subsection → (C)							
			Whether or not	Whether or not the Negative is "not significant" is decided by a vote.								
	Motion	The	Negative is "no	t significant".								
	Motion by/ 2 <sup>nd</sup> by	Nan	ne (Company)/N	Name (Company)								
	Vote		XX Y-XX N; Mo	otion 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)							
			(A)	Withdrawn (counted under h in disp	position)							
			(B)	Not related (counted under i in disp	oosition)							
	(check if	Χ	(C)	Related and not persuasive (signification	ant)							
Final	applicable)		(D)	Not significant (counted under j in c	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 gene	erated. See Section V-(ii) Comment # X	ζ.							

Neg	Referenced Section/ Paragraph		TC Chapter to fill in, in	ncluding text in the ballot if nec	essary.								
Negative	Negative Text	cop The	Original complete Negative text (e.g., issue, justification, suggestion) should be opied.  he definition contains explanation or discussion, which are not allowed in efinitions and have to be removed.										
TF	input (optional)												
	Withdrawal (check one)		No Negative withdrawa	GO TO "Related" subsection									
			Withdrawal document i MM/DD/YYYY.	GO TO "Final" subsection → (A)									
	Motion and Reason (check one)	×	'Related' is mutually ag	GO TO "Persuasive" subsection									
			Negative is not related.										
			Reason	xxxx									
Rela	Motion by/ 2 <sup>nd</sup> by	Nan	Name (Company)/Name (Company)										
Related	Discussion												
		XX	Y-XX N; Motion passed	/failed.									
	Result of Vote (check one)		[Negative is not related	1.] < 2/3	GO TO "Persuasive" subsection								
	(check one)		2/3 ≤ [Negative is not re	elated.]	GO TO "Final" subsection → (B)								

				1	Negative	e is related and	persu	asive. (Needs >1/3	3 votes	to pass.)	
	I	Rea	n and son	Х	Negative	e is related and	not pe	ersuasive. (Needs	≥2/3 vo	tes to pass.)	
	(cl	necl	k one)	F	Reason		gener		usually o	efects through inclusion shape, detecting tooling in §5.2.2. It's n't be revised.	
P	M	otio 2 <sup>nd</sup>	n by/ by	Liuyu	ın Qi (Gl	HTOT)/Xinhong					
ersı	Di	scu	ssion	None	)						
Persuasive				38 Y-	-0 <b>N</b> ; Mot	tion passed					
ve	Res	ault :	of Vote			Negative is related and ersuasive.] > 1/3		Is a technical change recommended?	Y	GO TO "Address by Technical Change Option" subsection	
			k one)	ŗ	persuasi	e is related and ve.] < 2/3		(check one)	N	GO TO "Final" subsection → (E)	
				á	and not p	≤ [Negative is related d not persuasive.] < 90%		GO TO "Final" sı	ubsectio	on → (C)	
					90% ≤ [Negative is related and not persuasive.]			GO TO "Not Significant Finding Option" subsection			
Ado	fields.		FROM:	paraç Section/	graph ni	graph XXX	east (	one full sentence	are requ	uired in "FROM" and "TO"	
Address	Technical	_	FROM	Section	ection/Paragraph XXX						
by	$\Omega$			000	a. ag. apr. 1801						
echnic	hanges	2	TO: Se	ction/	Paragra	ph xxx					
Technical Change Option			Justific	cation (If necessary)							
nge (	Moti	on	<u> </u>		Neg	ative is address	sed by	the technical char	nge(s).		
Optio	Moti	on k	oy/2 <sup>nd</sup> by	,	Nam	Name (Company)/Name (Company)					
n	Disc	uss	ion								
					XX '	Y-XX N; Motion	pass	ed/failed.			
	Result of Vote (check one)					2/3 ≤ [Negative change(s).]	e is ac	dressed by the ted	chnical	GO TO "Incorporation of the Technical Change" subsection	
						[Negative is no change(s).] < 2		essed by the tech	nical	GO TO "Final" subsection → (E)	
	<b>5</b> –	Мс	tion		To i			nical change(s).		- ( <del>-</del> /	

	Motion by	2 <sup>nd</sup> b	y Nar	ne (Comp	pany)/Name (Company)				
	Discussion	n							
			XX	XX Y-XX N; Motion passed/failed.					
	Result o		е	90% ≤ [Agree to incorporate.]  [Disagree to incorporate.]>10%		GO TO "Final" subsection  → (F)			
	(check	one)				GO TO "Final" subsection → (E)			
_					C Chapter finds a Negative not persong on the action". ( <i>Regulations</i> ¶ 9.6				
lot Sig	Use of "Not		It is mut significa		eed upon to term the Negative "not	GO TO "Final" subsection → (D)			
Not Significant Finding Option	significant finding option" (check one)	Х	It is mut "signific		eed upon to term the Negative	GO TO "Final" subsection → (C)			
I I	(0000000)		Whethe	r or not th	e Negative is "not significant" is decide	ed by a vote.			
ndi	Motion	The	Negative	e is "not s	ignificant".				
ng Op	Motion by/ 2 <sup>nd</sup> by	Nam	e (Com	oany)/Nar	me (Company)				
tion	Vote		XX <b>Y</b> -X	X N; Motio	on passed with simple majority	GO TO "Final" subsection → (D)			
	vote		XX Y-X	X N; Motio	on 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	X		(C)	Related and not persuasive (signification	int)			
Fina	applicable)			(D)	Not significant (counted under j in c	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)		Comme	nment generated. See Section V-(ii) Comment # X.					

<u> </u>	cgative o									
	Referenced Section/	*TF/TC Chapter to fill in, including text in the ballot if necessary.								
Nec	Paragraph	Section 5.2.3								
Negative	Negative Text	*Ori	ginal complete Negative text (e.g., issue, justification ied.	, suggestion) should be						
			The definition contains explanation or discussion, which are not allowed in definitions and have to be removed.							
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)						
Relat ed	Motion and Reason	X 'Related' is mutually agreed upon. (Needs no motion.)		GO TO "Persuasive" subsection						
lat	(check one)		Negative is not related. (Needs ≥2/3 votes to pass.)							

					Reason	XXXX	(				
	M	otio 2 <sup>nd</sup>	n by/ by	Nam	ne (Company)/Name (C	ompar	<b>лу)</b>				
	Di	scu	ssion								
				XX Y-XX N; Motion passed/failed.							
			of Vote		[Negative is not related		GO TO "Persuasive" subsection				
	, i		,		2/3 ≤ [Negative is not r	elated	.]			GO TO "Final" subsection → (B)	
					Negative is related and	l persu	uasive. (Needs >1/	/3 vo	tes 1	to pass.)	
	l	Rea	n and son	X	Negative is related and		•				
	(check one)				Doc5723A defines grain bo generated cause and appearar suitable and needn't be revised.					undary of sapphire through ce in §5.2.3. It's complete and	
Pe	M	otio 2 <sup>nd</sup>	n by/ by	Liuy	uyun Qi (GHTOT)/Xinhong Yang (AURORA)						
Persuasive	Di	scu	ssion	Non	е						
lasi				38 Y	38 Y-0N; Motion passed						
ve	Pos	ult /	of Vote		[Negative is related and persuasive.] > 1/3	d	Is a technical change recommended?		Υ	GO TO "Address by Technical Change Option" subsection	
			one)		[Negative is related and persuasive.] < 2/3	(check one)		N	GO TO "Final" subsection → (E)		
					2/3 ≤ [Negative is relate and not persuasive.] <	GO TO "Final" s	ubse	ctio	$on \rightarrow (C)$		
				X	90% ≤ [Negative is rela and not persuasive.]		GO TO "Not Significant Finding Option" subsection				
	Tech	nica	al Chang	je Re	ecommendations						
Original section/paragraph number and at least one full sentence are requifields.						uired in "FROM" and "TO"					
ss k			FROM:	Secti	ion/Paragraph XXX						
у Тес		1	TO: Se	ction	/Paragraph xxx						
hnical	Technical		Justific	ation	ı (If necessary)						
Chang			FROM:	Secti	ion/Paragraph XXX						
Address by Technical Change Option	Changes	2	TO: Se	ction	/Paragraph xxx						
'n			Justific	ation	n (If necessary)						

	Motic	on			Neg	ative is a	ddressed by the technical change(s).		
	Motic	on by/2 <sup>nd</sup> by	,		Nam	ne (Comp	any)/Name (Company)		
	Discu	ussion							
					XX	Y-XX N: N	Notion passed/failed.		
	Result of Vote (check one)						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 ii	ncorpora	te the technical change(s).		
	nco Tec	Motion by/	2 <sup>nd</sup> k	2 <sup>nd</sup> by		ne (Comp	any)/Name (Company)		
	Incorporation of the Technical Change	Discussion	1						
	atioi al C				XX Y	Y-XX N; N	otion passed/failed.		
	ո of tl hang	Result o				90% ≤ [A	gree to incorporate.]	GO TO "Final" subsection → (F)	
	he Je	(check on				[Disagree	e to incorporate.]>10%	GO TO "Final" subsection → (E)	
							C Chapter finds a Negative not pers g on the action". ( <i>Regulations</i> ¶ 9.6		
Vot Si	Us	e of "Not			mutu		ed upon to term the Negative "not	GO TO "Final" subsection → (D)	
Not Significant Finding Optio	significant				is mutually agreed upon to term the Negative significant".			GO TO "Final" subsection → (C)	
nt F	(CII		Whe	Whether or not the Negative is "not significant" is decided by a vote.					
indi	ı	Motion	The	Neg	gative is "not significant".				
ng Op	М	otion by/ 2 <sup>nd</sup> by	Nam	ne (C	Company)/Name (Company)				
otion		Vote		XX '	Y-XX	( N; Motio	n passed with simple majority	GO TO "Final" subsection → (D)	
		vote		XX	Y-XX	( N; Motio	n failed with simple majority	GO TO "Final" subsection → (C)	
					(/	<b>A)</b>	Withdrawn <mark>(counted under h in disp</mark>	oosition)	
					<b>(</b> l	В)	Not related (counted under i in disp	osition)	
		check if	Χ		((	C)	Related and not persuasive (signification	,	
Final	applicable)				<b>(</b> l	D)	Not significant (counted under j in d	isposition)	
<u> </u>						E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS	
	1-			(	F)	Addressed by technical change (cour	nted under k disposition)		
	(check if applicable)				nmer	nt generat	ed. See Section V-(ii) Comment # X.		

Negati ve	Referenced Section/	*TF/TC Chapter to fill in, including text in the ballot if necessary.
	Paragraph	Section 6

		copied.		ication, suggestion) should be					
	Negative Text	Again it is not clear, if the ordering information is for wafers or for ingots or something else. All of the items in section 6 would belong in a sapphire wafer specification. In addition, hardness and light transmission, which are required properties, apparently are not required to be reported. That's strange.							
TF	input (optional)								
	Withdrawal	X No Negative withdra	wal made by Voter.	GO TO "Related" subsection					
	(check one)	Withdrawal documer MM/DD/YYYY.	nt received by Standards staf	<b>→</b> (A)					
	Motion and	X 'Related' is mutually	agreed upon. (Needs no mo	otion.) GO TO "Persuasive" subsection					
	Reason	Negative is not relate	ed. (Needs ≥2/3 votes to pas	ss.)					
	(check one)	Reason							
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 relat	GO TO "Persuasive" subsection						
		2/3 ≤ [Negative is no	t related.]	GO TO "Final" subsection → (B)					
		Negative is related a	nd persuasive. (Needs >1/3	votes to pass.)					
	Motion and	X Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)							
	Reason (check one)	Reason	sapphire suitable for HE physical shape or geomet	c5723A just specifies properties and material defects of ophire suitable for HB-LED. And it does not define the visical shape or geometry. Also we have declared in §6.2 that dering information shall include other specific requirements specific goods".					
Persuasive	Motion by/ 2 <sup>nd</sup> by	Liuyun Qi (GHTOT)/Xinho	ong Yang (AURORA)						
uas	Discussion	None							
ive		38 Y-0N; Motion passed							
	Result of Vote (check one)	[Negative is related a persuasive.] > 1/3	Is a technical change recommended?	GO TO "Address by Technical Change Option" subsection					
		[Negative is related a persuasive.] < 2/3	and not (check one)	N GO TO "Final" subsection → (E)					
		2/3 ≤ [Negative is rel and not persuasive.]	< 90% GO 10 Final Sub	osection → (C)					
		X 90% ≤ [Negative is read not persuasive.]		ficant Finding Option" subsection					

		nal					ndations umber and at least one full sentence are requ	uired in "FROM" and "TO"					
			FROM:	Secti	Section/Paragraph XXX								
		1	TO: Sec	ection/Paragraph xxx									
	Technical Changes		Justific	ation	(If	nece	essary)						
	nical		FROM:	Section/Paragraph XXX									
Ad	Cha												
dress	nges	2	TO: Sec	ection/Paragraph xxx									
Address by Technical Change Option			Justific	ication (If necessary)									
hnic:	Motion Negative is addressed by the technical change(s).												
al Ch	Moti	on b	y/2 <sup>nd</sup> by	,		Nan	ne (Company)/Name (Company)						
ange	Disc	ussi	on										
е Ор						XX '	Y-XX N; Motion passed/failed.						
tion	Result of Vote (check one)						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)					
		Мо	tion			To i	ncorporate the technical change(s).	<i>/</i> (L)					
	Inco	Мо	tion by/2	2 <sup>nd</sup> b	у	Name (Company)/Name (Company)							
	Incorpora Technica	Dis	cussion	)									
	atior al C					XX	Y-XX N; Motion passed/failed.						
	ncorporation of the Technical Change	l	Result of		е		90% ≤ [Agree to incorporate.]	GO TO "Final" subsection → (F)					
	ie e		(cneck	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	"Not			mut ifica	ually agreed upon to term the Negative "not nt".	GO TO "Final" subsection → (D)					
Not Significant Finding Option	significant					mut nifica	ually agreed upon to term the Negative ant".	GO TO "Final" subsection → (C)					
indi	Wh						hether or not the Negative is "not significant" is decided by a vote.						
ng c		Mot		The	Neg	ative	e is "not significant".						
)ptio	IVI	2 <sup>nd</sup>	n by/ by	Nam	e (C	omp	pany)/Name (Company)						
]						XX Y-XX N; Motion passed with simple majority GO TO "Final" subsect → (D)							

			XX Y-XX N; Mo	tion failed with simple majority	GO TO "Final" subsection → (C)		
			(A)	Withdrawn (counted under h in disp	osition)		
			(B)	Not related (counted under i in disp	osition)		
	(check if	Χ	(C)	Related and not persuasive (significant)			
Final	applicable)		(D)	Not significant (counted under j in d	isposition)		
a			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS		
			(F)	Addressed by technical change (counted under k disposition)			
	(check if applicable)		Comment gener	rated. See Section V-(ii) Comment # X.			

	Referenced Section/	*TF/TC Chapter to fill	in, including text in the ballot if nec	essary.					
Nec	Paragraph	7.1.1 and 7.1.2							
Negative	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.							
		7.1.1 and 7.1.2: the wo with SEMI Standards'	ords "should be" have to be replace Procedural Manual and Style Manu	ed by "shall" in agreement ial.					
TFi	input (optional)								
	Withdrawal	X No Negative withd	rawal made by Voter.	GO TO "Related" subsection					
	(check one)	Withdrawal docum	nent received by Standards staff on	GO TO "Final" subsection → (A)					
	Motion and	X 'Related' is mutual	ly agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection					
	Reason (check one)	Negative is not rela	ated. (Needs ≥2/3 votes to pass.)	ss.)					
		Reason	xxxx						
Rel	Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (Company)							
Related	Discussion								
		XX Y-XX N; Motion pas	ssed/failed.						
	Result of Vote (check one)	[Negative is not re	lated.] < 2/3	GO TO "Persuasive" subsection					
	(Circuit Circ)	2/3 ≤ [Negative is I	not related.]	GO TO "Final" subsection → (B)					
		Negative is related	I and persuasive. (Needs >1/3 votes	to pass.)					
Per	Motion and Reason	X Negative is related	I and not persuasive. (Needs ≥2/3 vo	tes to pass.)					
Persuasive	(check one)	Reason	Refer to Style Manual Table 4 for 'shall'. We have revise 7.1.1 a 'shall'.						
	Motion by/ 2 <sup>nd</sup> by	Liuyun Qi (GHTOT)/Xir	nhong Yang (AURORA)						
	Discussion	None							

<b> </b>				38 Y-0 N; Motion passed									
	Result of Vote			[]	Negativ persuasi	re is related and ive.] > 1/3	Is a technical change recommended?		GO TO "Address by Technical Change Option" subsection				
			k one)			re is related and not ive.] < 2/3	(check one)		N GO TO "Final" subsection → (E)				
						egative is related	GO TO "Final" s	ubse	ction → (C)				
				<b>v</b> 9	00% ≤ [1	persuasive.] < 90% Negative is related							
	Took		-I Ohana	^ a	and not	nd not persuasive.]							
		nal	section/	/parag	graph n	nmendations ph number and at least one full sentence are required in "FROM" and "TO"							
			FROM: \$	Sectio	on/Para	graph XXX							
		1	TO: Sec	ction/l	Paragra	aph xxx							
	echni		Justific	ication (If necessary)									
Ac	Technical Changes		FROM: \$	Sectio	on/Para	graph XXX							
Address by Technical Chang	inges	2	TO: Sec	ction/l	Paragra	aph xxx							
by Tecl			Justific	ation	(If nece	f necessary)							
hnica	Motic	on			Neg	Negative is addressed by the technical change(s).							
다 다	Motic	on k	oy/2 <sup>nd</sup> by	·	Nan	Name (Company)/Name (Company)							
	Discu	ıss	ion										
e Option					XX '	Y-XX N; Motion pass	sed/failed.						
tion			sult of Vo			2/3 ≤ [Negative is ad change(s).]	ddressed by the te	chnic	al GO TO "Incorporation of the Technical Change" subsection				
				·		[Negative is not add change(s).] < 2/3	ressed by the tech	nical	GO TO "Final" subsection → (E)				
	_		otion			To incorporate the technical change(s).							
	Tecl		otion by/2		/ Nam	ne (Company)/Name	(Company)						
	pora	Dis	scussion	ı									
	atior				XX '	Y-XX N; Motion pass	ed/failed.						
	Incorporation of the Technical Change		Result of		•	90% ≤ [Agree to inc	orporate.]		GO TO "Final" subsection  → (F)				
						[Disagree to incorpo			GO TO "Final" subsection → (E)				
nt Find	This ention can be used only "if the TC Chanter finds a Negative net persuasive by a vote equal to a												

	Use of "Not		It is mutually ag significant".	greed upon to term the Negative "not	GO TO "Final" subsection → (D)	
	significant finding option" (check one)	X	It is mutually aq "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 <sup>nd</sup> by					
	Vote		XX Y-XX N; Mo	otion passed with simple majority	GO TO "Final" subsection → (D)	
			XX Y-XX N; Mo	otion failed with simple majority	GO TO "Final" subsection → (C)	
			(A)	Withdrawn (counted under h in dis	disposition)	
			(B)	Not related (counted under i in disp	oosition)	
	(check if	Χ	(C)	Related and not persuasive (signification	icant)	
Final	applicable)		(D)	Not significant (counted under j in c	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 gene	erated. See Section V-(ii) Comment # X	<u> </u>	

	Referenced	*TF/TC Chapter to fill in, including text in the ballot if necessary.						
Negative	Section/ Paragraph	Section 7.1.2, last sentence: The light transmission of single crystal sapphire should be similar to Figure 1.						
tive	No gotivo Toyt		iginal complete Negat ied.	ive text (e.g., issue, justification	, suggestion) should be			
	Negative Text			should be similar to figure 1", w This has to be defined more spo				
TF	input (optional)							
	Withdrawal		No Negative withdraw	GO TO "Related" subsection				
	(check one)		Withdrawal document MM/DD/YYYY.	GO TO "Final" subsection → (A)				
	Motion and	×	'Related' is mutually a	GO TO "Persuasive" subsection				
	Reason		Negative is not related. (Needs ≥2/3 votes to pass.)					
	(check one)		Reason	xxxx				
Related	Motion by/ 2 <sup>nd</sup> by	Nan						
ď	Discussion							
	Result of Vote	XX	Y-XX N; Motion passed	d/failed.				
	(check one)		[Negative is not relate	GO TO "Persuasive" subsection				

				2/3	B ≤ [Negative is not re	elated	.]	GO TO "Final" subsection → (B)			
				Ne	gative is related and	l persu	uasive. (Needs >1/	/3 votes to pass.)			
		Motion and Reason			X Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)						
	(check one)			Re	Reason clear.		.2 has specified the light transmission requirement very ir. Figure 1 is just a sampling curve. For improve accuracy of ument, we have commened "A transmission map as a uple is show on Figure 1" in this section.				
Persuasive	М	otio 2 <sup>nd</sup>	n by/ by	Liuyun (	Qi (GHTOT)/Xinhon	g Yan	g (AURORA)				
sua	Di	scu	ssion	None							
sive				38 Y-0N	N; Motion passed						
0	Result of Vote			pei	egative is related and rsuasive.] > 1/3		Is a technical change recommended?	GO TO "Address by Technical Change Option" subsection			
	(cl	necl	cone)	pei	egative is related and resuasive.] < 2/3		(check one)	N GO TO "Final" subsection → (E)			
					B ≤ [Negative is related and persuasive.] <		GO TO "Final" s	ubsection → (C)			
				% ≤ [Negative is rela d not persuasive.]	ited	GO TO "Not Sign	nificant Finding Option" subsection				
	Technical Change Reco Original section/paragra fields.					least	one full sentence	are required in "FROM" and "TO"			
			FROM:	Section	/Paragraph XXX						
Add		1	TO: Sed	ction/Paragraph xxx							
	Techi		Justific	ation (If	tion (If necessary)						
bу Те	Technical Changes		FROM:	Section/Paragraph XXX							
chni	Chan		TO: 0:	ction/Paragraph xxx							
cal C	ges	2	10: Sec	ction/Pa	aragrapn xxx						
ress by Technical Change Option			Justific	ation (If	f necessary)						
Optic	Moti	on			Negative is addressed by the technical change(s).						
n	Motion by/2 <sup>nd</sup> by			1	Name (Company)/Name (Company)						
	Disc	uss	ion								
		_			XX Y-XX N; Motion	n pass	sed/failed.				
	Result of Vote (check one)				2/3 ≤ [Negativ change(s).]	e is a	ddressed by the te	GO TO "Incorporation of the Technical Change" subsection			

					[Negative change(s	e is not addressed by the technical	GO TO "Final" subsection  → (E)		
		Motion		Toi	<u> </u>	te the technical change(s).	/ ( <u>-</u> )		
	Inc. Te	Motion by/2	2 <sup>nd</sup> b	_	Name (Company)/Name (Company)				
	Incorporation of the Technical Change	Discussion	1		· · ·				
	orati ical				V VV N. N	Action record/foiled			
	ion Ch					Motion passed/failed.	GO TO "Final" subsection		
	of th	Result of		е	90% ≤ [A	gree to incorporate.]	→ (F)		
	าe e	(check one)			[Disagree	e to incorporate.]>10%	GO TO "Final" subsection → (E)		
						C Chapter finds a Negative not pers g on the action". ( <i>Regulations</i> ¶ 9.6			
_	great	er man 90%	o OI U	ne perso	ons voun	g on the action . (Regulations   9.6	.4.4.2)		
ot				It is mut	GO TO "Final" subsection				
Sign		e of "Not		significa	nt".		→ (D)		
l fi	significant finding option"		Χ			ed upon to term the Negative	GO TO "Final" subsection → (C)		
ant		eck one)		"significa					
∄						e Negative is "not significant" is decide	ed by a vote.		
dir	ı	Motion	The	Negative	gative is "not significant".				
Not Significant Finding Option	Mo	otion by/ 2 <sup>nd</sup> by	Nam	e (Comp	Company)/Name (Company)				
tion		Vote		XX <b>Y</b> -XX	<b>N</b> ; Motio	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)		
				(	<b>A</b> )	Withdrawn (counted under h in disp	oosition)		
				(	B)	Not related (counted under i in disp	osition)		
	(0	check if	Χ	(	C)	Related and not persuasive (significa	nt)		
Final	applicable)			(	D)	Not significant (counted under j in d	isposition)		
<u>a</u>					E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS		
					F)	Addressed by technical change (coul	nted under k disposition)		
	•	check if plicable)		Comme	nt generat	ted. See Section V-(ii) Comment # X			

	Referenced Section/	*TF/TC Chapter to fill in, including text in the ballot if necessary.
z	Paragraph	Section 7.1.3
legative		*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.
ve		FWHM is not a material metric by itself; it is a characteristic of any bell-shaped curve. What is probably meant here is the FWHM of an X-ray diffraction reflex. This has to be changed. Again, sapphire specific information for the test method is missing, such as which reflex is to be used.
TF input (optional)		

									00.70 (0.14.1)	
	Withdra	wal	X	No Negative withdrawa	al mad	e by Voter.			GO TO "Related" subsection	
	(check c	one)		Withdrawal document I	1	GO TO "Final" subsection → (A)				
	Matic	n and	X	'Related' is mutually ag	n.)	GO TO "Persuasive" subsection				
		on and ason		Negative is not related	(Nee	ds ≥2/3 votes to p	oass.)			
	(chec	k one)		Reason	XXXX	<				
Related	Motio 2 <sup>nd</sup>	on by/ <sup>d</sup> by	Nan	ne (Company)/Name (C	ompar	ny)				
ated	Discu	ussion								
			XX	Y-XX N; Motion passed	/failed					
		of Vote		[Negative is not related	l.] < 2/	3			GO TO "Persuasive" subsection	
	,	,		2/3 ≤ [Negative is not re		GO TO "Final" subsection → (B)				
	Matia			Negative is related and	l persu	asive. (Needs >1/	3 vot	es t	o pass.)	
	Rea	on and ason k one)	X Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)							
	,	ŕ		Reason					meter for specifying the single ng condition in the Doc5723A.	
P	Motio 2 <sup>nd</sup>	on by/ <sup>d</sup> by	Liuy	Liuyun Qi (GHTOT)/Xinhong Yang (AURORA)						
ersı	Discu	ussion	None							
Persuasive			38 Y-0N; Motion passed							
ve	Result	of Vote		[Negative is related and persuasive.] > 1/3		Is a technical change recommended?		Y	GO TO "Address by Technical Change Option" subsection	
		k one)		[Negative is related and persuasive.] < 2/3	d not	(check one)		N	GO TO "Final" subsection → (E)	
				2/3 ≤ [Negative is related and not persuasive.] <		GO TO "Final" s	ubse	ctio	n <b>→ (C)</b>	
			X	90% ≤ [Negative is rela and not persuasive.]		GO TO "Not Sig	nifica	nt F	inding Option" subsection	
	Technic	al Chang	je R	ecommendations						
Address by Technical Change Option	Origina fields.	l section/	para	agraph number and at	least	one full sentence	are r	equ	ired in "FROM" and "TO"	
s by i		FROM:	Sect	tion/Paragraph XXX						
ੀress by Techn Change Option	Technical Changes	TO: Se	ction	n/Paragraph xxx						
iical	ical jes	Justific	atio	n (If necessary)						
- '		-								

			FROM:	Sect	ion/l	Para	graph XX	XX					
							gp						
		2	TO: Se	ction	/Par	ragraph xxx							
			Justific	atio	n (If	necessary)							
					1								
	Motic							iddressed by the technical change(s).					
	Motic	n b	y/2 <sup>nd</sup> by	/		Nan	ne (Comp	pany)/Name (Company)					
	Discu	ıssi	sion										
						XX	Y-XX N;	Motion passed/failed.					
			sult of V heck on				2/3 ≤ [N change(	egative is addressed by the technical (s).]	GO TO "Incorporation of the Technical Change" subsection				
								re is not addressed by the technical (s).] < 2/3	GO TO "Final" subsection → (E)				
			Motion					ate the technical change(s).					
	ncor Tech		lotion by/2 <sup>nd</sup> by			Name (Company)/Name (Company)							
	Incorporation of the Technical Change	Dis	cussior	1									
						XX	Y-XX N; I	Motion passed/failed.					
	ı of t hanç	ı	Result of Vote				90% ≤ [/	Agree to incorporate.]	GO TO "Final" subsection  → (F)				
	he Je		(check	one)			[Disagre	ee to incorporate.]>10%	GO TO "Final" subsection → (E)				
								C Chapter finds a Negative not peng on the action". ( <i>Regulations</i> ¶ 9.					
Not Sig	Us	e of	"Not			s mutually agreed upon to term the Negative "not gnificant".			GO TO "Final" subsection → (D)				
nifica	findi	ng (	icant option" ( one)	X		muti nifica		eed upon to term the Negative	GO TO "Final" subsection → (C)				
nt F	(CII	CCF	( OHE)		Whether or not the Negative is "not significant" is decided by a vote.								
indi	ľ	Vlot	ion	The	Neg	egative is "not significant".							
nificant Finding Option	Mo	otio 2 <sup>nd</sup>	n by/ by	Nam	ne (C	omp	oany)/Nar	me (Company)					
tion		Vo	te		XX '	Y-X>	<b>( N</b> ; Motio	on passed with simple majority	GO TO "Final" subsection → (D)				
	Voic				XX	Y-X>	N; Motio	on failed with simple majority	GO TO "Final" subsection → (C)				
							<b>A</b> )	Withdrawn (counted under h in dis					
							B)	Not related (counted under i in dis	. ,				
Final			ck if	Х			C)	Related and not persuasive (signific	,				
<u>a</u>	ар	рис	able)				D)	Not significant (counted under j in Related and persuasive and not					
							E)	addressed by technical change	DOCUMENT FAILS				
						(	F)	Addressed by technical change (co	unted under k disposition)				

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

Neg	ative 11										
	Referenced Section/	*TF/TC Chapter to fill	in, includi	ng text in the ball	ot if nec	essary.					
Ne	Paragraph	Section 7.2.1									
Negative	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.  A purity of 99.996 % (at-% or wt-%?) is required, leaving 40 ppm (ppma or ppmw?) for									
		impurities. However, to only to 25 ppmw. This				elements in Table 1 sum up					
TF	input (optional)										
	Withdrawal	X No Negative withd	rawal mad	e by Voter.		GO TO "Related" subsection					
	(check one)	Withdrawal docum MM/DD/YYYY.	ent receive	ed by Standards st	aff on	GO TO "Final" subsection → (A)					
	Mation and	X 'Related' is mutual	lly agreed ι	upon. (Needs no n	notion.)	GO TO "Persuasive" subsection					
	Motion and Reason	Negative is not rela	ated. (Nee	ds ≥2/3 votes to p	ass.)						
	(check one)	Reason	XXXX	(							
Rela	Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (Company)									
Related	Discussion										
	Result of Vote (check one)	XX Y-XX N; Motion passed/failed.									
		[Negative is not rel		GO TO "Persuasive" subsection							
		2/3 ≤ [Negative is r	GO TO "Final" subsection → (B)								
		Negative is related and persuasive. (Needs >1/3 votes to pass.)									
	Motion and Reason	X Negative is related	and not p	ersuasive. (Needs	≥2/3 vot	es to pass.)					
	(check one)	Reason		e unit of purity is ppm wt. in for "specific elements" and it is							
Persuasive	Motion by/ 2 <sup>nd</sup> by	Liuyun Qi (GHTOT)/Xin	nhong Yang	g (AURORA)							
uas	Discussion	None									
ive		38 Y-0 N; Motion passe	ed	_							
	Result of Vote (check one)	[Negative is related persuasive.] > 1/3	d and	Is a technical change recommended?	Y	GO TO "Address by Technical Change Option" subsection					
	(oncor one)	[Negative is related persuasive.] < 2/3	d and not	(check one)	N	GO TO "Final" subsection → (E)					
		2/3 ≤ [Negative is rand not persuasive		GO TO "Final" s	ubsectio	1 1					

					۹ <u>0</u> %	ا] > دُ	Negative is related					
				Χ			persuasive.]	GO TO "Not Significant I	Finding Option" subsection			
	Tech	nica	al Chang	je Re	con	nme	ndations					
	Origi fields		section/	para	grap	oh n	umber and at least o	one full sentence are requ	uired in "FROM" and "TO"			
			FROM:	Sect	ion/l	Para	graph XXX					
		1	TO: Sec	ction	/Par	agra	aph xxx					
	Techr		Justific	ation	ı (If	nec	essary)					
Ac	Technical Changes		FROM:	Section/Paragraph XXX								
dress	anges	2	TO: Sec	ction/Paragraph xxx								
Address by Technical Change Option			Justific	ation	ation (If necessary)							
nica	Motio					Negative is addressed by the technical change(s).						
I Ch	Motio	n b	y/2 <sup>nd</sup> by	/		Name (Company)/Name (Company)						
ange	Disc	ıssi	on									
o <sub>p</sub>						XX	Y-XX N; Motion pass	ed/failed.	100-044			
tion			sult of Vo				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)			
	_		tion			To incorporate the technical change(s).						
	Inco Tec	Мо	tion by/2	2 <sup>nd</sup> b	у	Name (Company)/Name (Company)						
	ncorporation of the Technical Change	Dis	cussion	)								
	tion CI					XX	Y-XX N; Motion pass	ed/failed.				
	of th	F	Result o				90% ≤ [Agree to inco	orporate.]	GO TO "Final" subsection → (F)			
	е		•				[Disagree to incorpo		GO TO "Final" subsection  → (E)			
No	great							finds a Negative not pers ction". ( <i>Regulations</i> ¶ 9.6	uasive by a vote equal to or .4.4.2)			
t Sign	Us		"Not			mut iifica		term the Negative "not	GO TO "Final" subsection → (D)			
Not Significant Finding Option	sig findi (ch	ng (	icant option" ( one)	X	It is mutually agreed upon to term the Negative				GO TO "Final" subsection → (C)			
Fin:								is "not significant" is decide	ed by a vote.			
din(		Mot	ion	The	Neg	ative	e is "not significant".					
ľ	l Mo	otio 2 <sup>nd</sup>	n by/ by	Nam	ne (C	Comp	pany)/Name (Compar	ny)				

	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 di	sposition)	
			(B)	Not related (counted under i in disposition)		
	(check if	Χ	(C)	Related and not persuasive (signific	cant)	
Final	applicable)		(D)	Not significant (counted under j in	disposition)	
a			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS	
			(F)	Addressed by technical change (co	unted under k disposition)	
	(check if applicable)		Comment gene	X.		

	Referenced Section/		in, including text in the ballot if neo	cessary.
Nec	Paragraph	Figure 5.1		
Negative	Negative Text	copied.	egative text (e.g., issue, justification sed in the caption of figure 5.1 is not	,
TFi	nput (optional)			
	Withdrawal	X No Negative with	GO TO "Related" subsection	
(	(check one)	Withdrawal docum	nent received by Standards staff on	GO TO "Final" subsection → (A)
	Motion and	X 'Related' is mutua	ally agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection
	Reason	Negative is not re		
	(check one)	Reason	xxxx	
Rela	Motion by/ 2 <sup>nd</sup> by	Name (Company)/Nam	ne (Company)	
Related	Discussion			
		XX Y-XX N; Motion pa	assed/failed.	
	Result of Vote (check one)	[Negative is not re	elated.] < 2/3	GO TO "Persuasive" subsection
	(311001101)	2/3 ≤ [Negative is	not related.]	GO TO "Final" subsection → (B)
Persuas ve	Motion and Reason	Negative is related	d and persuasive. (Needs >1/3 votes	to pass.)
uasi <sub>e</sub>	(check one)	X Negative is related	d and not persuasive. (Needs ≥2/3 vo	tes to pass.)

				Rea	ison						ns of OHT in last vision. So we geneity testing" in section4.1.
	M	otic 2 <sup>nd</sup>	n by/ by	Liuyun C	(Gl	HTOT)/Xinhon	ıg Yanç	g (AURORA)			
	Di	scu	ssion	None							
				38 Y-0N	; Motion passed						
	Res	sult	of Vote		gative is related and suasive.] > 1/3			Is a technical change recommended?		Y	GO TO "Address by Technical Change Option" subsection
		per				e is related an ve.] < 2/3		(check one)		N	GO TO "Final" subsection → (E)
				and	not	egative is relat persuasive.] <	90%	GO TO "Final" s	ubsed	ctio	n → (C)
					% ≤ [Negative is related Inot persuasive.]			GO TO "Not Sign	nifica	nt F	inding Option" subsection
Address by Technical Change Option	Origi field: Technical Changes	1	TO: Sec	ction/Par	nece Para	graph XXX					
Chan	Moti	on			Negative is addressed by the technical change(s).						
ige i	Moti	on l	y/2 <sup>nd</sup> by		Name (Company)/Name (Company)						
Opti	Disc	uss	ion								
S					XX '	Y-XX N; Motio	n pass	ed/failed.			
	Result of Vote (check one)					2/3 ≤ [Negative is addressed by the technical change(s).]  [Negative is not addressed by the technical [O TO "Incorporation Technical Change" subsection  [O TO "Incorporation Technical Change" subsection  GO TO "Final" subsection					
	=	Мс	tion		To i			nical change(s).			· \-/
	tion of	Mc	tion by/2	2 <sup>nd</sup> by		ne (Company)/		• • • • • • • • • • • • • • • • • • • •			
	Incorpora tion of	Dis	scussion	1							

			XX Y-XX I	N; Motion passed/failed.							
	Result o		90% :	≤ [Agree to incorporate.]	GO TO "Final" subsection → (F)						
	(check	one)	[Disa	gree to incorporate.]>10%	GO TO "Final" subsection → (E)						
z	This option can be used only "if the TC Chapter finds a Negative not persuasive by a vote equal to orgreater than 90% of the persons voting on the action". ( <i>Regulations</i> ¶ 9.6.4.4.2)										
Not Siç	Use of "Not		s mutually a gnificant".	greed upon to term the Negative "not	GO TO "Final" subsection → (D)						
Significant Finding	significant finding option" (check one)		It is mutually agreed upon to term the Negative								
ŧΕ		W	Whether or not the Negative is "not significant" is decided by a vote.								
ndiı	Motion	The Ne	gative is "no	ot significant".							
	Motion by/ 2 <sup>nd</sup> by	Name	(Company)/N	Name (Company)							
Option	Vote	XX	<b>Y-XX N</b> ; M	otion passed with simple majority	GO TO "Final" subsection → (D)						
	Vote	XX	<b>( Y-XX N</b> ; M	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	Χ	(C)	Related and not persuasive (significa	nt)						
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)	Co	omment gen	erated. See Section V-(ii) Comment # X							

Ne	Referenced Section/ Paragraph	*TF/	TC Chapter to fill in, including text in the ballot if nec	essary.				
Negative		*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.						
е	Negative Text	There is some redundancy in the specifications. Hardness, light transmission and color depend on the impurity and defect species and concentrations. The document has to show that these specifications are not in conflict with each other.						
TFi	input (optional)							
	Withdrawal	X	No Negative withdrawal made by Voter.	GO TO "Related" subsection				
1	(check one)		Withdrawal document received by Standards staff on MM/DD/YYYY.	GO TO "Final" subsection → (A)				
Relat ed	제otion and 연연 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	XXXX	ζ					
	Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (C	Compar	<b>лу)</b>					
	Discussion								
		XX Y-XX N; Motion passed/failed.							
	Result of Vote (check one)	[Negative is not related	d.] < 2/	3		s	O TO "Persuasive" subsection		
		2/3 ≤ [Negative is not i	related		GO TO "Final" subsection → (B)				
		Negative is related and	d persu	uasive. (Needs >1/	/3 vote	s to	pass.)		
	Motion and	X Negative is related and		•			•		
	Reason (check one)	Reason	transi grain These each So we	e can use sample to test the hardness, purity, light insmission, EPD, FWHM. And the color, bubble, inclusion, ain boundary can be checked by 100% cosmetic checking. lese specifications can influence each other but can't replace ich other because they can't be decided by the single factor. It was shall list all these parameter here to specify the sapphire of HB-LED.					
Persuasive	Motion by/ 2 <sup>nd</sup> by	Liuyun Qi (GHTOT)/Xinhon	Liuyun Qi (GHTOT)/Xinhong Yang (AURORA)						
sive	Discussion	None							
		38 Y-0N; Motion passed							
	Result of Vote	[Negative is related an persuasive.] > 1/3	nd	Is a technical change recommended?		' Т	GO TO "Address by Technical Change Option" subsection		
	(check one)	[Negative is related an persuasive.] < 2/3		(check one)			GO TO "Final" subsection → (E)		
		2/3 ≤ [Negative is related and not persuasive.] <	90%	GO TO "Final" subsection → (C)					
		and not persuasive.]				GO TO "Not Significant Finding Option" subsection			
Address by Technical Change Option		ge Recommendations /paragraph number and at	: least	one full sentence	are re	quir	ed in "FROM" and "TO"		
by Te	FROM:	Section/Paragraph XXX							
chni	- TO: Se	ction/Paragraph xxx							
cal Ct	Justific	cation (If necessary)							
ange	Technical Changes	Section/Paragraph XXX							
Option	2 TO: Se	ction/Paragraph xxx							

		Justific	ation (I	f nec	essary)						
	Motic	n on		Neg	ative is a	ddressed by the technical change(s).					
	Motio	n by/2 <sup>nd</sup> by	,	Nan	Name (Company)/Name (Company)						
ľ		ssion									
				XX	XX <b>Y</b> -XX <b>N</b> ; Motion passed/failed.						
		Result of V (check on			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 i	ncorpora	te the technical change(s).					
	nco Tec	Motion by/	2 <sup>nd</sup> by	Nan	Name (Company)/Name (Company)						
	rpor	Discussion	1								
	Incorporation of the Technical Change			XX	Y-XX N; N	Notion passed/failed.					
		Result o				gree to incorporate.]	GO TO "Final" subsection → (F)				
	ne e	(check	one)		[Disagree	e to incorporate.]>10%	GO TO "Final" subsection → (E)				
Not Si	It is			persons voting on the action". (Regulations ¶ 9.0 s mutually agreed upon to term the Negative "not unificant".							
Not Significant Finding	sig findi	e of "Not gnificant ng option" eck one)	✓ It i		ually agre	ed upon to term the Negative	GO TO "Final" subsection → (C)				
Ē	•	•	W	hether or not the Negative is "not significant" is decided by a vote.							
ndir [	N	<b>l</b> lotion	The Ne	gative	e is "not si	gnificant".					
	Mo	otion by/ 2 <sup>nd</sup> by	Name (	Name (Company)/Name (Company)							
Option		Vote	XX	( <b>Y-</b> X)	<b>N</b> ; Motio	n passed with simple majority	GO TO "Final" subsection → (D)				
		vole	XX	( Y-X)	<b>N</b> ; Motio	n failed with simple majority	GO TO "Final" subsection → (C)				
				(	<b>A</b> )	Withdrawn (counted under h in disp	oosition)				
				(B)		Not related (counted under i in disp	osition)				
	(0	heck if	Χ	(	C)	Related and not persuasive (significa	nt)				
Final	ap	plicable)		(	D)	Not significant (counted under j in d	lisposition)				
<u>a</u>					<b>E</b> )	Related and persuasive and not addressed by technical change	DOCUMENT FAILS				
	1-	hools if		(	<b>(F)</b>	Addressed by technical change (cou	nted under k disposition)				
		heck if plicable)	Co	mme	nt generat	ted. See Section V-(ii) Comment # X					

#### **Voting Interest Reject 1- Voter Reject 2 (Voter: Name and company)**

Negative 1

**Negative 2** 

Negative 3

**Negative 4** 

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

Check only when the Document has not been failed.

#	Original	num	ber (#) of Negatives		(g)				
#	Numbei	r of N	egatives withdrawn	(h)					
#	Numbei	Number of Negatives found not related (i)							
#	Number of Negatives found not significant (j)								
#			egatives addressed by technic tsignificant)	al change (Negative	(k)				
	Final		g - (h + i + j + k) = 0	Reject is Not Valid and is not included in the denominator of § VI. Approval Conditions Check					
			g - (h + i +j + k) >0	Reject is included in the denominator of § VI.  Approval Conditions 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: XXXXXX)

**Voter Reject 1 (Voter: Name and company)** 

Negative 1 Negative 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)

Tech Iss	Origin	*TF/TC Chapter to choose Comment # (Voter: Name and company) / A reason not addressed by a Vote response
echnic Issue	Referenced	*TF/TC Chapter to fill in including text in the ballot as appropriate.
<u>a</u>	Section/ Paragraph	

	F	?ea	son	*Original Comment text, if applicable, and problem statement, including justification and suggestion, should be copied.								
	.,	\ <del>c</del> a.	5011									
Hand	dle ted	chn	ical issu	e ide	entified above as a Neg	jative.						
					'Related' is mutually ag	greed up	oon. (Needs no mot	ion.)	GO TO "Persuasive" subsection			
	Mo	tio	n and		Negative is not related				tes to pass.)			
	-		son		Negative is not related business. (Needs ≥2/3	Chapter meeting as new						
	(cn	eck	one)		Reason							
Related		otio 2nd	n by/ by	Nar	me (Company)/Name (C	ompany	y)					
ted	Dis	cus	ssion									
				XX	Y-XX N; Motion passed	/failed.						
	Result o			[Negative is not related	d.] <2/3			GO TO "Persuasive" subsection				
	(ch	eck	one)		2/3 ≤ [Negative is not r				GO TO "Final"			
					2/3 ≤ [Negative is not current TC Chapter me	subsection → (B)						
					Negative is related and persuasive. (Needs >1/3 votes to pass.)							
	F	Reas	n and son cone)		Negative is related and	to pass.)						
_	,		·		Reason	xxxx	xxxx					
Persuasiv	Mc	otio 2 <sup>nd</sup>	n by/ by	Name (Company)/Name (Company)								
asiv	Dis	scus	ssion									
'e				XX	Y-XX N; Motion passed	/failed.			00.70 "A 11			
	Resi	ult d	of Vote		[Negative is related and persuasive.] > 1/3	d	Is a technical change	Y	GO TO "Address by Technical Change Option" subsection			
	(ch	eck	one)		[Negative is related and persuasive.] < 2/3	d not	recommended? (check one)	N	GO TO "Final" subsection → (E)			
					2/3 ≤ [Negative is related and not persuasive.] <		GO TO "Final" su	bsection				
,	Tech	nic	al Chan	ge R	ecommendations							
Address Chan	Origi field		section	/para	agraph number and at	least o	ne full sentence are	required	d in "FROM" and "TO"			
by ge			FROM:	Sec	tion/Paragraph XXX							
ੀress by Technica Change Option	Technical Changes	1	TO: Se	ectio	n/Paragraph xxx							
cal	cal es		Justifi	catio	on (If necessary)							

			FROM:	Sec	tion	/Pai	ragraph XX	ΧX					
		2	TO: Se	O: Section/Paragraph xxx									
		-	Justifi	catio	n (If	ne	cessary)						
M	otic	n				Ne	egative is a	ddressed by the technical change(s).					
M	otic	n k	y/2 <sup>nd</sup> b	у		Na	ame (Comp	pany)/Name (Company)					
Di	Discussion												
						XX Y-XX N; Motion passed/failed.							
	Result of Vote (check one)							gative is addressed by the technical	GO TO "Incorporation of the Technical Change" subsection				
							[Negative change(s	is not addressed by the technical ).] < 2/3	GO TO "Final" subsection → (E)				
	Motion						To incorporate the technical change(s).						
Te	Inc	Мс	tion by	/2 <sup>nd</sup>	by	Na	ame (Comp	pany)/Name (Company)					
chnic	orpor	Dis	scussio	n									
al C	ation					X	X Y-XX N; I	Motion passed/failed.					
Technical Change	Incorporation of the	F	Result o				90% ≤ [A	gree to incorporate.]	GO TO "Final" subsection → (F)				
	(b		(check	one			[Disagree	to incorporate.] >10%	GO TO "Final" subsection → (E)				
							(B)	Not related					
					(C)		Related and not persuasive						
	(check one)				(E)		Related and persuasive and not addressed by technical change	DOCUMENT FAILS					
							(F)	Addressed by technical change					
	(check if applicable)					mment generated. See Section V-(ii) Comment # X.							

## **V. Comments**

# V- (i) Voters' Comments Commenter 1 (Name/Company) - Comment 1

Com	*TF	*TF/TC Chapter to fill in section/paragraph #, if necessary.									
ment		able 2, in the description of the Grade 2, it is necessary separate words. In the rows with de 3 an 4, please delete spaces. In subsection 7.2.6 separate words.									
Α	The	TC Chapter agreed to do one of the following actions.									
*No motion is required in this step.											
١		Already addressed by Commenter #, Comment #									

	Χ	No further action was taken by the TC Chapter.									
		Refer to the	TF for more consideration.								
		New Business									
		Editorial Ch	ange								
		Options	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.								
		FROM: Sec	ction/Paragraph xxx								
Ed	1	TO: Section/Paragraph xxx									
itorial (		Justification (If necessary)									
Editorial Changes		FROM: Section/Paragraph xxx									
S	2	TO: Section/Paragraph xxx									
		Justification (If necessary)									
M	otion	1	To approve no action was done for 5723A upon this comment								
M	otion	by/2 <sup>nd</sup> by	Liuyun Qi (GHTOT)/Xinhong Yang (AURORA)								
Di	scus	sion	None								
Vo	ote		38 Y-0 N; Motion passed								

This table is needed for each Comment.

Commenter 2 (Name/Company) - Comment 1 Commenter 3 (Name/Company) - Comment 1

## V-(ii) Comments Created by Handling Negative

Comment (Created by Handling Negative) NC - 1

	*TF/TC Chapter to fill in									
င္ပ										
Comment										
nt 										

	The	e TC Chapter agreed to do one of the following actions.									
	*No	motion is re	equired in this step.								
A		Already addressed by Commenter #, Comment #									
Action		No further action was taken by the TC Chapter.									
ח		Refer to the	TF for more consideration.								
		New busine	ss								
		Editorial cha									
		Options	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.								
		FROM: Section/Paragraph xxx									
Ed	1	TO: Section/Paragraph xxx									
itorial C		Justification (If necessary)									
<b>Editorial Changes</b>		FROM: Section/Paragraph xxx									
S	2	TO: Sectio	n/Paragraph xxx								
		Justification	on (If necessary)								
	otion		To approve above editorial change(s)								
M	otion	by/2 <sup>nd</sup> by	Name (Company)/Name (Company)								
Di	scus	ssion	XXXX								
Vo	ote		XX Y-XX N; Motion passed/failed.								

Comment (Created by Handling Negative) NC - 2 Comment (Created by Handling Negative) NC - 3

## 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.

	Origin of this editorial change		Commenter(s) / Comment(s) #
1	(Check one)		Other [ ]
	FROM: Under Section 5.1.4 None		

	To: Section 5.1.5 5.1.5 OHT— optical homogeneit	tv tes	ting						
	Justification: (If necessary)		<del>''''a</del>						
	Origin of this editorial change		Commenter(s) / Comment(s) #						
	(Check one)		Other [ ]						
2	axis1800-2300HV according to t <b>To: Section 7.1.1</b> 7.1.1 Hardness – Vickers-hard axis1800-2300HV according to t	he m	s of single crystal sapphire shall be \(\pext{C-axis}\)1800~2500HV, \(\psi\) C						
	Justification: (If necessary)								
	Origin of this editorial change (Check one)								
3	250~400nm wavelength, and mo	re th	-LED wafers, the light transmission should be >60% at an 85% at 400~900nm wavelength according the test method transmission of single crystal sapphire should be similar to Figure						
	To: Section 7.1.2  7.1.2 Light transmission — For HB-LED wafers, the light transmission shall be >60% at 250~400nm wavelength, and ≥85% at 400~900nm wavelength according the test method specified in ASTM F1316. A transmission map as a sample is show on Figure 1.								
	Origin of this editorial change (Check one)  FROM: Section 7.1.3  FWHM—The full width at half maximum (FWHM) of sapphire for HB-LED wafers shall be no more than 15". According to the XRD test method specified in ASTM D5357, the X-Ray Diffraction FWHM chart similar to the shape as shown as in Figure 2. The curve should be bell shape, there should be only a single peak.								
4	than 15". 7.1.3.1 The testing for FWHM 7.1.3.1.1 Testing Sample — 0.1 surface shall be less than Ra0.3n 7.1.3.1.2 Testing method — Acc	shall ~10n m. O ordin	kimum (FWHM) of sapphire for HB-LED wafers shall be no more the performed under the follow conditions:  In thickness double sides polished wafer. Roughness of polisher rientation < ±0.5 degree base on the requirement of the order. The the the the the thickness double sides polished wafer. Roughness of polisher rientation < ±0.5 degree base on the requirement of the order. The the the thickness double shape is shape as shown as in Figure 2. The curve should be bell shape;						
5	Origin of this editorial change (Check one)  FROM: Section 7.2.2  7.2.2 EPD — EPD for single of the method specified in SEMI M  To: Section 7.2.2  7.2.2 EPD — EPD for single of the method specified in SEMI M  To: Section 7.2.2  7.2.2 EPD — EPD for single of the method specified in SEMI M  To: Section 7.2.2  7.2.2 EPD — EPD for single of the method in Seminary specified in SEMI M  7.2.2.1 The testing for EPD shall 7.2.2.1.1 Sample — 2" sapphire 7.2.2.1.2 Etching method — Soa	rysta: 36. rysta: be p subst	I sapphire for HB-LED wafers must be less than 1000 according to a sapphire for HB-LED wafers must be less than 1000 cm-2.  The sapphire for HB-LED wafers						
6	Origin of this editorial change (Check one)	rulli	g to the method specified in SEMI M30.						

#### FROM: Section 7.2.6

7.2.6 Color — Color can be introduced to the crystal by micro impurities or elements captured in the lattice structure during growth or by the oxygen vacancies. These phenomena can cause the sapphire to appear yellow, pink or others color. Sapphire with color is suitable for HB-LED production if the color is removed during the production process (typically during the annealing process). Single crystal sapphire for HB-LED does not allow colors if the color cannot be removed.

#### To: Section 7.2.6

7.2.6 Color — Color can be introduced to the crystal by micro impurities or elements captured in the crystal during growth or by the oxygen vacancies. These cause the sapphire to appear yellow, pink or other colors. Sapphire with color is suitable for HB-LED production if the color is removed during the production process (typically during the annealing process). Single crystal sapphire for HB-LED does not allow colors if the color cannot be removed.

Motion	To approve the above editorial change(s).
Motion by/ 2 <sup>nd</sup> by	Liuyun Qi (GHTOT)/Xinhong Yang (AURORA)
Discussion	None
Vote	38 Y-0 N; Motion passed

## 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	=	28	/	29	=	96.6%	≥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.

#### **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 Documer is still technically sound and complete. ( <i>Regulations</i> ¶ 8.7.1)											
Motion			<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)										
				ecklist ( <i>Regulations</i> ¶ 15.3) is complete and has been included with the Document the balloting process. ( <i>Regulations</i> ¶ 15.1.2)									
	Moti	ion	by/2 <sup>nd</sup> by	Liuyun Qi (GHTOT)/Xinhong Yang (AURORA)									
	D	isc	ussion	None									
		٧	ote	38 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.

X	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 m righted iten		patented technology or reproduction of nown.	GO TO SECTION X.					
		copy copy	righted iten	ns is kr se lettei	tented technology or reproduction of nown, but a Letter of Assurance (LOA) or for such items has been obtained or hapter.	GO TO SECTION X.					
		use o	of such ma	teriaİs i	tented technology or reproduction of copyright s technically justified by the TC Chapter, but a of the item(s) has NOT been obtained or pres	an LOA or copyright					
	M		Ask ISC f	for special permission to publish.							
	Motion	Quit activity.									
	'n		Wait for L	OA for patented technology or release of copyrighted items.							
	Mot	ion by	y/2 <sup>nd</sup> by	Liuyuı	n Qi (GHTOT)/Xinhong Yang (AURORA)						
	[	Discus	sion	None							
		Vot	te	38 Y-0	38 <b>Y</b> -0 <b>N</b>						
		inal A	ction	Х	Motion passed						
		iiiai A	Clion		Motion failed						

### X. Action for This Document

	This Document passed TC Chapter review as balloted and will be forwarded to the IS SC for procedural review.									
M	X	This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.								
Motion		This Document passed TC Chapter review with technical changes and with or without editorial 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.								
	Moti 2 <sup>n</sup>	on by/ <sup>d</sup> by	Liu	yun Qi (GHTOT)/Xinhong Yang (AURORA)						
Disc	uss	ion	None							
	٧	ote	38	Y-0 N						
	inal	Action	Χ	Motion passed						
1 -	ıııaı	nal Action		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
Aork		Not approved
	Re	eason:
	Re	

<sup>\*</sup> 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.