

Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: [China](#)
 Global Technical Committee: [HB-LED](#)
 TC Chapter Cochairs: [Jiangbo Wang/HC-SemiTek](#)
 Standards Staff: [Cassie Li](#)

	Scheduled in Background Statement	Actual
Date	4/27/2022	4/27/2022
Location	Dongguan City, Guangdong Province	OVTCCM
Reason for Change of Date and/or Location (if changed)	COVID-19	

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

I. Document Number and Title

Document Number 6371C	Document Title New Standard: Test Method for Determining Geometrical Parameters of Patterns on Patterned Sapphire Substrate
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II. Tally

Standards staff to fill in.

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

Note: A minimum of 60% of the Voting Interests that have TC Members within the global technical committee that issued the Letter Ballot must return Votes. (*Regulations* ¶ 9.6.2.1.1)

Voting Tally (with example values):

Voting Interest:	Returned Votes		Distribution		Return Rate	
Letter Ballot	40	÷	66	=	60.6%	≥60%
Intercommittee Ballot	32					
Voting Interest Reject(s)	0		Total Voters with Rejects		0	
Voting Interest Accept(s)	52					

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

III. Rejects

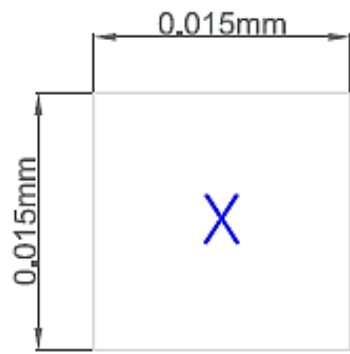
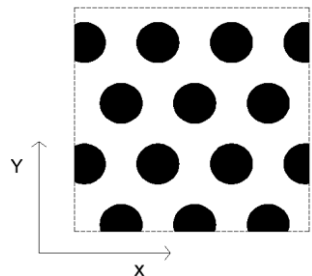
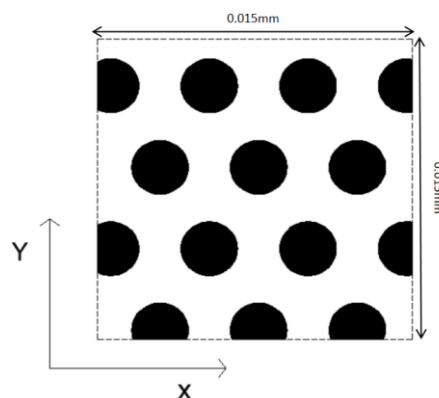
None

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* § 9.6.1.4.3 to make a technical change to the Document. (*Regulations* ¶ 9.6.1.4.2.5)

#1




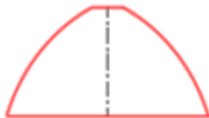
Technical Issue	Origin	*TF/TC Chapter to choose Comment # (Voter: Name and company) Vargas-Bernal Rafael and ITSDI			
	Referenced Section/ Paragraph	*TF/TC Chapter to fill in including text in the ballot as appropriate.			
		Figure 13a was omitted			
	Reason	*Original Comment text, if applicable, and problem statement, including justification and suggestion, should be copied. Accept Comment in Letter Ballot 01-22			
Handle technical issue identified above as a Negative.					
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)		GO TO "Persuasive" subsection
		<input type="checkbox"/>	Negative is not related and assigned to TF. (Needs ≥2/3 votes to pass.)		
		<input type="checkbox"/>	Negative is not related and placed on agenda of current TC Chapter meeting as new business. (Needs ≥2/3 votes to pass.)		
			Reason	XXXX	
	Motion by/ 2nd by	Name (Company)/Name (Company)			
	Discussion				
	Result of Vote (check one)	XX Y-XX N; Motion passed/failed.			
		<input type="checkbox"/>	[Negative is not related.] <2/3		GO TO "Persuasive" subsection
		<input type="checkbox"/>	2/3 ≤ [Negative is not related] and assigned to TF.		GO TO "Final" subsection → (B)
		<input type="checkbox"/>	2/3 ≤ [Negative is not related] and placed on agenda of current TC Chapter meeting as new business.		
Persuasive	Motion and Reason (check one)	<input checked="" type="checkbox"/>	Negative is related and persuasive. (Needs >1/3 votes to pass.)		
		<input type="checkbox"/>	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)		
			Reason	XXXX	

Address by Technical Change Option	Motion by/ 2 nd by		Jianzhe Liu (BST)/Aris Ma (AK Optics)					
	Discussion		Jiangbo Wang (HC SEMITEC): Is it possible to combine these two figures into one? Jianzhe Liu (BST): Sure. Good idea.					
	Result of Vote (check one)		22 Y-0 N; Motion passed.					
			<input checked="" type="checkbox"/> X	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	<input checked="" type="checkbox"/> X	<input type="checkbox"/> Y	GO TO “Address by Technical Change Option” subsection
			<input type="checkbox"/>	[Negative is related and not persuasive.] < 2/3		<input type="checkbox"/>	<input type="checkbox"/> N	GO TO “Final” subsection → (E)
			<input type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO “Final” subsection → (C)			
	Technical Change Recommendations Original section/paragraph number and at least one full sentence are required in “FROM” and “TO” fields.							
	Technical Changes	1	FROM: Section/Paragraph Figure 13					
			<div><div></div><div>a. AFM cell magnification Size</div><div></div><div>b. Pattern of cell space</div><div>Figure 13 AFM Measurement Cell</div></div>					
			TO: Section/Paragraph Figure 13					
		<div></div> <div>Figure 13 AFM Measurement Cell <u>AFM Measurement Pattern of Cell Space</u></div>						
Justification (If necessary) Combine these 2 figures into 1 together with title.								

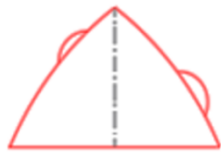
	Motion		Negative is addressed by the technical change(s).		
	Motion by/2nd by		Jianzhe Liu (BST)/Aris Ma (AK Optics)		
	Discussion		None		
	Result of Vote (check one)		22 Y-0 N; Motion passed.		
			<input checked="" type="checkbox"/> 2/3 ≤ [Negative is addressed by the technical change(s).]	GO TO "Incorporation of the Technical Change" subsection	
			<input type="checkbox"/> [Negative is not addressed by the technical change(s).] < 2/3	GO TO "Final" subsection → (E)	
	Incorporation of the Technical Change	Motion		To incorporate the technical change(s).	
		Motion by/2nd by		Jianzhe Liu (BST)/Aris Ma (AK Optics)	
		Discussion		None	
		Result of Vote (check one)		22 Y-0 N; Motion passed.	
<input checked="" type="checkbox"/> 90% ≤ [Agree to incorporate.]				GO TO "Final" subsection → (F)	
<input type="checkbox"/> [Disagree to incorporate.] >10%	GO TO "Final" subsection → (E)				
Final	(check one)	<input type="checkbox"/> (B)	Not related		
		<input type="checkbox"/> (C)	Related and not persuasive		
		<input type="checkbox"/> (E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS	
		<input checked="" type="checkbox"/> (F)	Addressed by technical change		
	(check if applicable)	<input type="checkbox"/>	Comment generated. See Section V-(ii) Comment # X.		

#2

Technical Issue	Origin	*TF/TC Chapter to choose Comment # (Voter: Name and company) Jianzhe Liu and BST		
	Referenced Section/ Paragraph	*TF/TC Chapter to fill in including text in the ballot as appropriate. From Figure 8 to Figure 14		
	Reason	*Original Comment text, if applicable, and problem statement, including justification and suggestion, should be copied. Incorrect figure sort number from Figure 8 to Figure 14 and incorrect title in figure 11		
Handle technical issue identified above as a Negative.				
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection
		<input type="checkbox"/>	Negative is not related and assigned to TF. (Needs ≥2/3 votes to pass.)	
		<input type="checkbox"/>	Negative is not related and placed on agenda of current TC Chapter meeting as new business. (Needs ≥2/3 votes to pass.)	
		Reason	XXXX	
	Motion by/ 2nd by	Name (Company)/Name (Company)		

Persuasive	Discussion							
	Result of Vote (check one)	XX Y-XX N; Motion passed/failed.						
			[Negative is not related.] <2/3				GO TO “Persuasive” subsection	
			2/3 ≤ [Negative is not related] and assigned to TF.				GO TO “Final” subsection → (B)	
			2/3 ≤ [Negative is not related] and placed on agenda of current TC Chapter meeting as new business.					
	Motion and Reason (check one)	X	Negative is related and persuasive. (Needs >1/3 votes to pass.)					
			Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)					
			Reason	XXXX				
	Motion by/ 2 nd by	Jianzhe Liu (BST)/Yang Gan(HIT)						
	Discussion		None					
Result of Vote (check one)	22 Y-0 N; Motion passed.							
	X	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	X	Y	GO TO “Address by Technical Change Option” subsection		
		[Negative is related and not persuasive.] < 2/3			N	GO TO “Final” subsection → (E)		
		2/3 ≤ [Negative is related and not persuasive.] < 90%		GO TO “Final” subsection → (C)				
Address by Technical Change Option	Technical Change Recommendations Original section/paragraph number and at least one full sentence are required in “FROM” and “TO” fields.							
	Technical Changes	1	FROM: Section/Paragraph Figure 8					
			<div><div><p>a. Contamination</p></div><div><p>b. Asymmetry</p></div><div><p>c. Turn</p></div><div><p>d. Flat Top</p></div></div> <p>Figure 8 Abnormal Patterns</p>					

TO: Section/Paragraph [Figure 9](#)



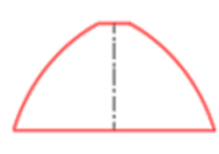
a. Contamination



b. Asymmetry



c. Turn



d. Flat Top

~~Figure 8~~ [Figure 9](#)

Abnormal Patterns

Justification (If necessary)
Use correct figure sort number.

FROM: Section/Paragraph [Figure 9](#)

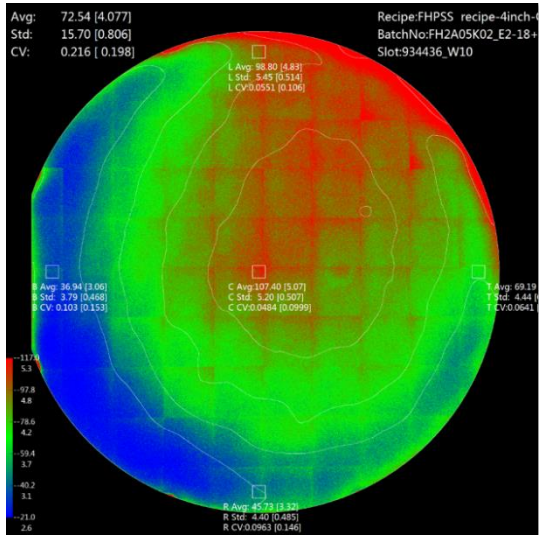


Figure 9

Full Picture of the Reflector Measuring Wafer

TO: Section/Paragraph **Figure 10**

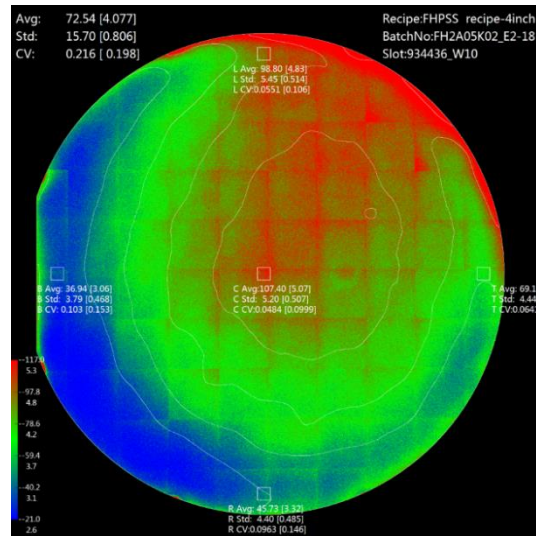


Figure 9 **Figure 10**

Full Picture of the Reflector Measuring Wafer

Justification (If necessary)
Use correct figure sort number.

FROM: Section/Paragraph **Figure 10**

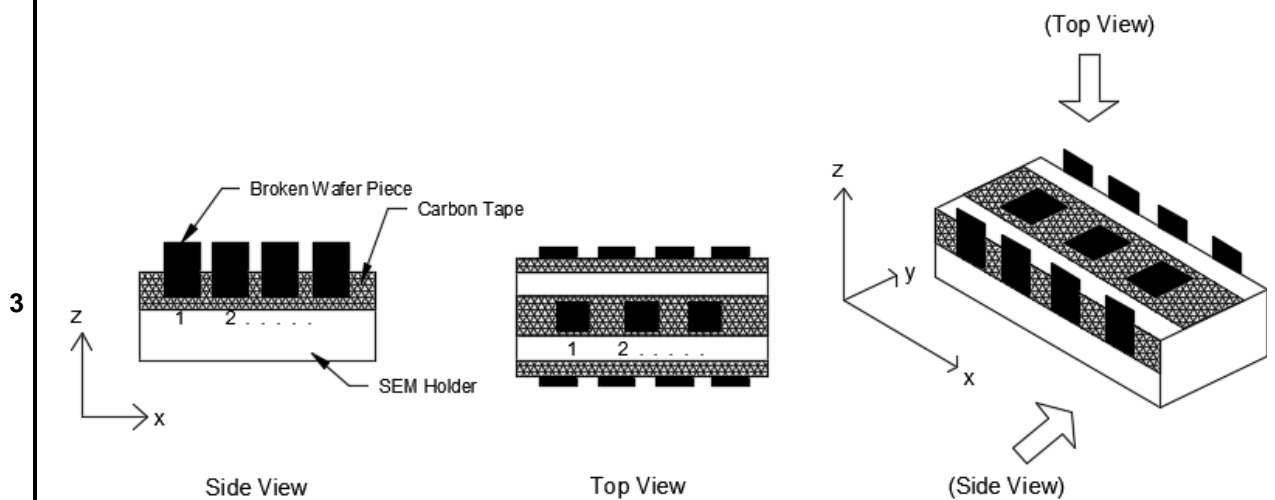
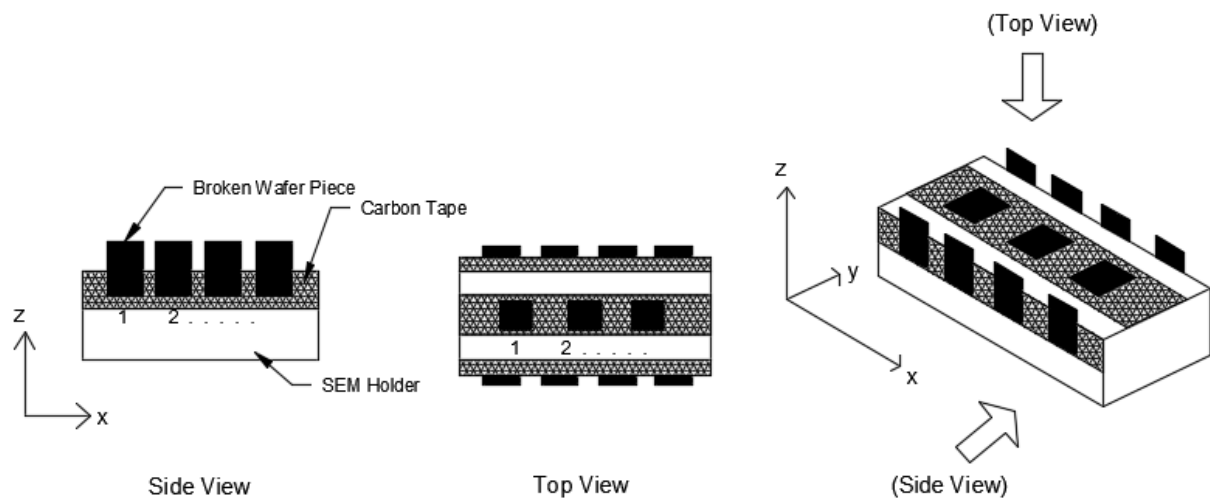


Figure 10

Broken SEM Holder

TO: Section/Paragraph [Figure 11](#)



~~Figure 10~~ [Figure 11](#)

~~Broken~~ SEM Holder

Justification (if necessary)

Use correct figure sort number. "Broken" is incorrect in the title and it should be deleted.

FROM: Section/Paragraph [Figure 11](#)

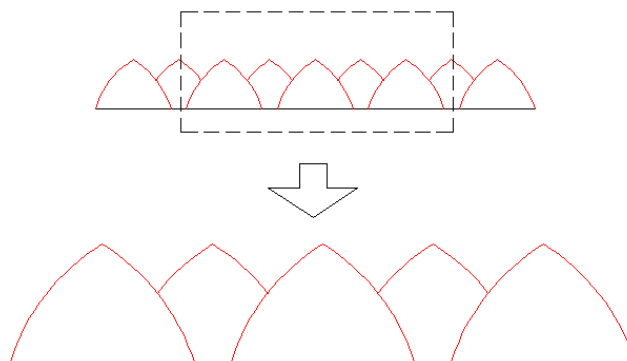
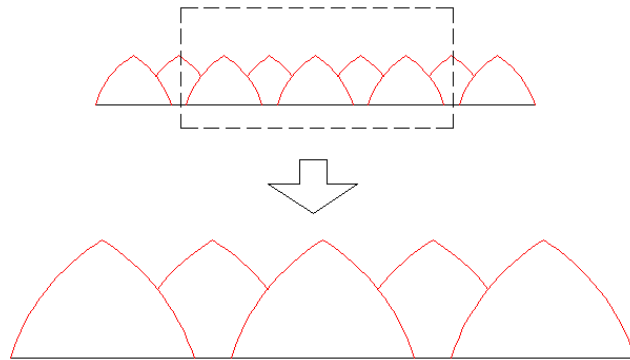


Figure 11

Magnification to Patterns

TO: Section/Paragraph [Figure 12](#)



~~Figure 11~~ [Figure 12](#)
Magnification to Patterns

Justification (If necessary)
Use correct figure sort number.

FROM: Section/Paragraph [Figure 12](#)

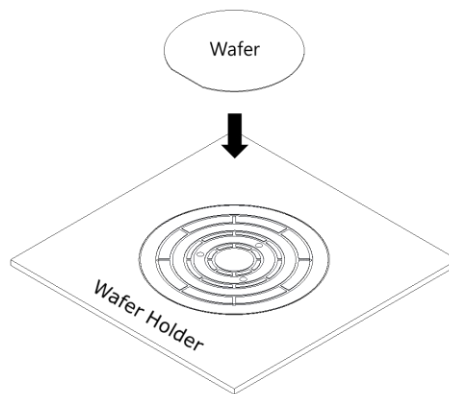
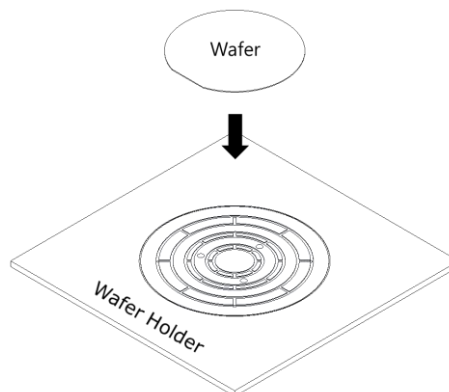


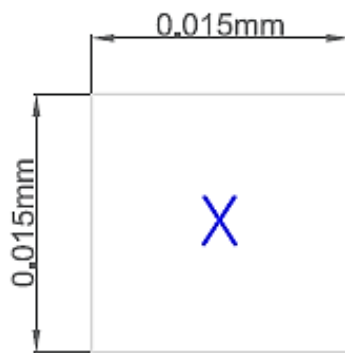
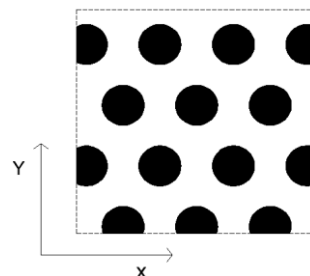
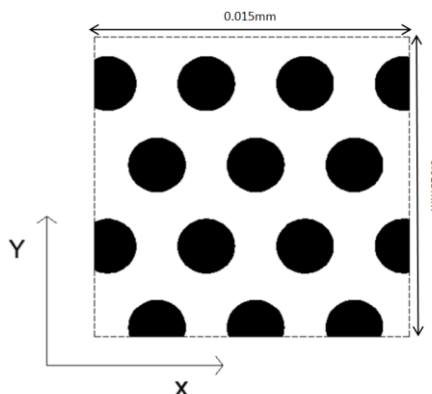
Figure 12
Wafer Holder

5

TO: Section/Paragraph [Figure 13](#)



~~Figure 12~~ [Figure 13](#)
Wafer Holder

		Justification (If necessary) Use correct figure sort number.	
		<div>FROM: Section/Paragraph Figure 13</div> <div><div><p>a. AFM cell magnification Size</p></div><div><p>b. Pattern of cell space</p></div></div> <div>Figure 13 AFM Measurement Cell</div>	
6		<div>TO: Section/Paragraph Figure 14</div> <div></div> <div><div>Figure 13 Figure 14</div><div>AFM Measurement Cell AFM Measurement Pattern of Cell Space</div></div>	
		Justification (If necessary) Use correct figure sort number. The title has been modified in the previous comments.	
Motion		Negative is addressed by the technical change(s).	
Motion by/2nd by		Jianzhe Liu (BST)/Yang Gan (HIT)	
Discussion			
Result of Vote (check one)		22 Y-0 N; Motion passed.	
		<input checked="" type="checkbox"/> 2/3 ≤ [Negative is addressed by the technical change(s).]	GO TO “Incorporation of the Technical Change” subsection
		<input type="checkbox"/> [Negative is not addressed by the technical change(s).] < 2/3	GO TO “Final” subsection → (E)
Incorporatio n of the	Motion	To incorporate the technical change(s).	
	Motion by/2nd by	Jianzhe Liu (BST)/Yang Gan (HIT)	
	Discussion	None	
		22 Y-0 N; Motion passed.	

	Result of Vote (check one)	X	90% ≤ [Agree to incorporate.]	GO TO “Final” subsection → (F)
			[Disagree to incorporate.] >10%	GO TO “Final” subsection → (E)
Final	(check one)		(B)	Not related
			(C)	Related and not persuasive
			(E)	Related and persuasive and not addressed by technical change
			(F)	Addressed by technical change
	(check if applicable)	X	Comment generated. See Section V-(ii) Comment # X.	

#3

Technical Issue	Origin	*TF/TC Chapter to choose Comment # (Voter: Name and company) Cao, Clark and NAURA			
	Referenced Section/ Paragraph	*TF/TC Chapter to fill in including text in the ballot as appropriate. Change 'Instrument calibration for magnification and measurement performance shall be performed in accordance with ISO9001:2008 and or the instrument manufacturer's recommendations' to 'The analytical laboratory that performs the trace-metal contaminants should have a measurement quality-management system in accordance with ISO/IEC 17025:2017 or equivalent.'			
	Reason	*Original Comment text, if applicable, and problem statement, including justification and suggestion, should be copied. Abstain Comment in Letter Ballot 01-22			
Handle technical issue identified above as a Negative.					
Related	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.)		GO TO “Persuasive” subsection
			Negative is not related and assigned to TF. (Needs ≥2/3 votes to pass.)		
			Negative is not related and placed on agenda of current TC Chapter meeting as new business. (Needs ≥2/3 votes to pass.)		
			Reason	XXXX	
	Motion by/ 2nd by	Name (Company)/Name (Company)			
	Discussion				
	Result of Vote (check one)		XX Y-XX N; Motion passed/failed.		
		[Negative is not related.] <2/3		GO TO “Persuasive” subsection	
		2/3 ≤ [Negative is not related] and assigned to TF. 2/3 ≤ [Negative is not related] and placed on agenda of current TC Chapter meeting as new business.		GO TO “Final” subsection → (B)	
	Motion and Reason	X	Negative is related and persuasive. (Needs >1/3 votes to pass.)		

Address by Technical Change Option	(check one)		Negative is related and not persuasive. (Needs $\geq 2/3$ votes to pass.)				
			Reason	XXXX			
	Motion by/ 2 nd by	Jianzhe Liu (BST)/Gan Feng (Epiworld)					
	Discussion	None					
	Result of Vote (check one)	22 Y-0 N; Motion passed.					
		X	[Negative is related and persuasive.] $> 1/3$	Is a technical change recommended? (check one)	X	Y	GO TO "Address by Technical Change Option" subsection
			[Negative is related and not persuasive.] $< 2/3$			N	GO TO "Final" subsection \rightarrow (E)
			$2/3 \leq$ [Negative is related and not persuasive.] $< 90\%$	GO TO "Final" subsection \rightarrow (C)			
	Technical Change Recommendations Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.						
	Technical Changes	1	FROM: Section/Paragraph 10.1.1 10.1.1 Instrument calibration for magnification and measurement performance shall be performed in accordance with ISO9001:2015 and or the instrument manufacturer's recommendations.				
TO: Section/Paragraph 10.1.1 10.1.1 Instrument calibration for magnification and measurement performance shall be performed in accordance with ISO9001:2015, ISO/IEC 17025:2017 and or the instrument manufacturer's recommendations.							
Justification (if necessary) ISO/IEC 17025:2017 is related to the instrument calibration.							
Motion		Negative is addressed by the technical change(s).					
Motion by/2 nd by		Jianzhe Liu (BST)/Gan Feng (Epiworld)					
Discussion		None					
Result of Vote (check one)	22 Y-0 N; Motion passed.						
	X	$2/3 \leq$ [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 \rightarrow (E)				
Incorporation of the Technical Change	Motion		To incorporate the technical change(s).				
	Motion by/2 nd by		Jianzhe Liu (BST)/Gan Feng (Epiworld)				
	Discussion		None				
	Result of Vote (check one)	22 Y-0 N; Motion passed.					
X		$90\% \leq$ [Agree to incorporate.]	GO TO "Final" subsection \rightarrow (F)				
		[Disagree to incorporate.] $> 10\%$	GO TO "Final" subsection \rightarrow (E)				
Final	(check one)		(B)	Not related			
			(C)	Related and not persuasive			

		(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
	X	(F)	Addressed by technical change	
(check if applicable)		Comment generated. See Section V-(ii) Comment # X.		

#4

Technical Issue	Origin	*TF/TC Chapter to choose Comment # (Voter: Name and company) Yingbin Liu and AMEC			
	Referenced Section/ Paragraph	*TF/TC Chapter to fill in including text in the ballot as appropriate. Section 6.7.3			
	Reason	*Original Comment text, if applicable, and problem statement, including justification and suggestion, should be copied. In 6.7.3, delete "wide and narrow". Delete "The required measurement data are used as shown in Table 3" and keep color indicators may vary depending on equipment.			
Handle technical issue identified above as a Negative.					
Related	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.)		GO TO "Persuasive" subsection
			Negative is not related and assigned to TF. (Needs ≥2/3 votes to pass.)		
			Negative is not related and placed on agenda of current TC Chapter meeting as new business. (Needs ≥2/3 votes to pass.)		
			Reason	XXXX	
	Motion by/ 2nd by	Name (Company)/Name (Company)			
	Discussion				
	Result of Vote (check one)		XX Y-XX N; Motion passed/failed.		
		[Negative is not related.] <2/3		GO TO "Persuasive" subsection	
		2/3 ≤ [Negative is not related] and assigned to TF.		GO TO "Final" subsection → (B)	
	2/3 ≤ [Negative is not related] and placed on agenda of current TC Chapter meeting as new business.				
Persuasive	Motion and Reason (check one)	X	Negative is related and persuasive. (Needs >1/3 votes to pass.)		
			Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)		
			Reason	XXXX	
	Motion by/ 2 nd by	Jianzhe Liu (BST)/Yang Gan (HIT)			
	Discussion	None			
	Result of Vote	21 Y-0 N; Motion passed.			

	(check one)	<input checked="" type="checkbox"/>	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GO TO "Address by Technical Change Option" subsection	
		<input type="checkbox"/>	[Negative is related and not persuasive.] < 2/3		<input type="checkbox"/>	<input checked="" type="checkbox"/>	GO TO "Final" subsection → (E)	
		<input type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)				
Address by Technical Change Option	Technical Change Recommendations Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.							
	Technical Changes	1	FROM: Section/Paragraph 6.7.3 6.7.3 Figure 10 is an example that shows the full picture of the reflectivity measuring the wafer. It can measure to read the gray scale by scanning whole surface of a wafer and the reflectivity changes according to the wide and narrow PSS diameter size and can be expressed in color on the wafer map. It can change colors depending on the setting. It shows that the shorter wavelength (Blue) is lower reflectivity and the longer wavelength (Red) is higher reflectivity. The required measurement data are used as shown in Table 3, and color indicators may vary depending on equipment.					
			TO: Section/Paragraph 6.7.3 6.7.3 Figure 10 is an example that shows the full picture of the reflectivity measuring the wafer. It can measure to read the gray scale by scanning whole surface of a wafer and the reflectivity changes according to the wide and narrow PSS diameter size and can be expressed in color on the wafer map. It can change colors depending on the setting. It shows that the shorter wavelength (Blue) is lower reflectivity and the longer wavelength (Red) is higher reflectivity. The required measurement data are used as shown in Table 3, and color indicators may vary depending on equipment.					
			Justification (if necessary) 1. Diameter size is mentioned in the following content, so "wide and narrow" is not appropriate. 2. There is no need to repeat the content "required measurement data are used as shown in Table 3" due to mentioned in the calibration section already.					
	Motion		Negative is addressed by the technical change(s).					
	Motion by/2 nd by		Jianzhe Liu (BST)/ Yang Gan (HIT)					
	Discussion		None					
	Result of Vote (check one)		22 Y-0 N; Motion passed.					
			<input checked="" type="checkbox"/>	2/3 ≤ [Negative is addressed by the technical change(s).]			GO TO "Incorporation of the Technical Change" subsection	
			<input type="checkbox"/>	[Negative is not addressed by the technical change(s).] < 2/3			GO TO "Final" subsection → (E)	
	Incorporation of the Technical Change	Motion		To incorporate the technical change(s).				
Motion by/2 nd by		Jianzhe Liu (BST)/ Yang Gan (HIT)						
Discussion		None						
Result of Vote (check one)		22 Y-0 N; Motion passed.						
		<input checked="" type="checkbox"/>	90% ≤ [Agree to incorporate.]			GO TO "Final" subsection → (F)		
		<input type="checkbox"/>	[Disagree to incorporate.] > 10%			GO TO "Final" subsection → (E)		
Final	(check one)	<input type="checkbox"/>	(B)	Not related				
		<input type="checkbox"/>	(C)	Related and not persuasive				
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change			DOCUMENT FAILS	
		<input checked="" type="checkbox"/>	(F)	Addressed by technical change				

	(check if applicable)	Comment generated. See Section V-(ii) Comment # X.
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#5

Technical Issue	Origin	*TF/TC Chapter to choose Comment # (Voter: Name and company) Yingbin Liu and AMEC		
	Referenced Section/ Paragraph	*TF/TC Chapter to fill in including text in the ballot as appropriate. Section 10.2		
	Reason	*Original Comment text, if applicable, and problem statement, including justification and suggestion, should be copied. In 10.2 Two standard samples named measurement standard sample and calibration standard sample are mentioned in the reflectance measurement. Are they the same thing or two?		
Handle technical issue identified above as a Negative.				
Related	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.) GO TO "Persuasive" subsection	
			Negative is not related and assigned to TF. (Needs ≥2/3 votes to pass.)	
			Negative is not related and placed on agenda of current TC Chapter meeting as new business. (Needs ≥2/3 votes to pass.)	
			Reason	XXXX
	Motion by/ 2nd by	Name (Company)/Name (Company)		
	Discussion			
	Result of Vote (check one)		XX Y-XX N; Motion passed/failed.	
		[Negative is not related.] <2/3	GO TO "Persuasive" subsection	
		2/3 ≤ [Negative is not related] and assigned to TF.	GO TO "Final" subsection → (B)	
		2/3 ≤ [Negative is not related] and placed on agenda of current TC Chapter meeting as new business.		
Persuasive	Motion and Reason (check one)	X	Negative is related and persuasive. (Needs >1/3 votes to pass.)	
			Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)	
			Reason	XXXX
	Motion by/ 2 nd by	Jianzhe Liu (BST)/Yang Gan (HIT)		

	Discussion		Yang Gan (HIT): "Calibration" is not appropriate in the sentence. "Measurement" should be more formal. Jianzhe Liu (BST): Sure.				
	Result of Vote (check one)		24 Y-0 N; Motion passed.				
			<input checked="" type="checkbox"/> [Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	<input checked="" type="checkbox"/> Y	GO TO "Address by Technical Change Option" subsection	
			<input type="checkbox"/> [Negative is related and not persuasive.] < 2/3		<input type="checkbox"/> N	GO TO "Final" subsection → (E)	
		<input type="checkbox"/> 2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)				
Address by Technical Change Option	Technical Change Recommendations Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.						
	Technical Changes	1	FROM: Section/Paragraph 10.2.5 10.2.5 Calibration standard samples shall be stored at designated locations.				
			TO: Section/Paragraph 10.2.5 10.2.5 Calibration Measurement standard samples shall be stored at designated locations.				
			Justification (if necessary) Use formal words.				
	Motion		Negative is addressed by the technical change(s).				
	Motion by/2nd by		Jianzhe Liu (BST)/ Yang Gan (HIT)				
	Discussion		None				
	Result of Vote (check one)		23 Y-0 N; Motion passed.				
			<input checked="" type="checkbox"/> 2/3 ≤ [Negative is addressed by the technical change(s).]	GO TO "Incorporation of the Technical Change" subsection			
			<input type="checkbox"/> [Negative is not addressed by the technical change(s).] < 2/3	GO TO "Final" subsection → (E)			
	Incorporation of the Technical Change	Motion		To incorporate the technical change(s).			
		Motion by/2nd by		Jianzhe Liu (BST)/ Yang Gan (HIT)			
		Discussion		None			
		Result of Vote (check one)		23 Y-0 N; Motion passed.			
<input checked="" type="checkbox"/> 90% ≤ [Agree to incorporate.]				GO TO "Final" subsection → (F)			
	<input type="checkbox"/> [Disagree to incorporate.] > 10%	GO TO "Final" subsection → (E)					
Final	(check one)	<input type="checkbox"/> (B)	Not related				
		<input type="checkbox"/> (C)	Related and not persuasive				
		<input type="checkbox"/> (E)	Related and persuasive and not addressed by technical change		DOCUMENT FAILS		
		<input checked="" type="checkbox"/> (F)	Addressed by technical change				
	(check if applicable)	<input type="checkbox"/>	Comment generated. See Section V-(ii) Comment # X.				

#6

Technical Issue	Origin	*TF/TC Chapter to choose Comment # (Voter: Name and company) Yingbin Liu and AMEC			
	Referenced Section/ Paragraph	*TF/TC Chapter to fill in including text in the ballot as appropriate. Section 6.5.1			
	Reason	*Original Comment text, if applicable, and problem statement, including justification and suggestion, should be copied. In 6.5.1, is the meaning of checking beginning area of pattern within specification edge area?			
Handle technical issue identified above as a Negative.					
Related	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.)		GO TO "Persuasive" subsection
			Negative is not related and assigned to TF. (Needs ≥2/3 votes to pass.)		
			Negative is not related and placed on agenda of current TC Chapter meeting as new business. (Needs ≥2/3 votes to pass.)		
			Reason	XXXX	
	Motion by/ 2nd by	Name (Company)/Name (Company)			
	Discussion				
	Result of Vote (check one)		XX Y-XX N; Motion passed/failed.		
		[Negative is not related.] <2/3		GO TO "Persuasive" subsection	
		2/3 ≤ [Negative is not related] and assigned to TF.		GO TO "Final" subsection → (B)	
		2/3 ≤ [Negative is not related] and placed on agenda of current TC Chapter meeting as new business.			
Persuasive	Motion and Reason (check one)	X	Negative is related and persuasive. (Needs >1/3 votes to pass.)		
			Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)		
			Reason	XXXX	
	Motion by/ 2nd by	Jianzhe Liu (BST)/Yang Gan (HIT)			
	Discussion	Yingbin Liu (AMEC): Do you guys have any words can formally describe this situation? Guoyou Liu (CRRC TIMES): "Periphery area" is more formal. Jianzhe Liu (BST): Sure.			
Result of Vote	22 Y-0 N; Motion passed.				

	(check one)	X	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	X	Y	GO TO "Address by Technical Change Option" subsection
			[Negative is related and not persuasive.] < 2/3			N	GO TO "Final" subsection → (E)
			2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)			
Address by Technical Change Option	Technical Change Recommendations Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.						
	Technical Changes	1	FROM: Section/Paragraph 6.5.1 6.5.1 The effective area in the wafer can be specified by checking beginning area of pattern within specification.				
			TO: Section/Paragraph 6.5.1 6.5.1 The effective area in the wafer can be specified by checking beginning area of pattern within specification. The effective area can be specified by excluding abnormal patterns beginning from the periphery area of the wafer.				
			Justification (if necessary) Use more formal sentence. "Excluding abnormal patterns beginning from the periphery area of the wafer" is more appropriate used in this sentence.				
	Motion		Negative is addressed by the technical change(s).				
	Motion by/2 nd by		Jianzhe Liu (BST)/ Yang Gan (HIT)				
	Discussion		None				
	Result of Vote (check one)		22 Y-0 N; Motion passed.				
			X	2/3 ≤ [Negative is addressed by the technical change(s).]	GO TO "Incorporation of the Technical Change" subsection		
				[Negative is not addressed by the technical change(s).] < 2/3	GO TO "Final" subsection → (E)		
	Incorporation of the Technical Change	Motion		To incorporate the technical change(s).			
		Motion by/2 nd by		Jianzhe Liu (BST)/ Yang Gan (HIT)			
		Discussion		None			
		Result of Vote (check one)		22 Y-0 N; Motion passed.			
				X	90% ≤ [Agree to incorporate.]	GO TO "Final" subsection → (F)	
	[Disagree to incorporate.] > 10%	GO TO "Final" subsection → (E)					
Final	(check one)		(B)	Not related			
			(C)	Related and not persuasive			
			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS		
		X	(F)	Addressed by technical change			
	(check if applicable)		Comment generated. See Section V-(ii) Comment # X.				

#7

Technical Issue	Origin	*TF/TC Chapter to choose Comment # (Voter: Name and company) Jianzhe Liu and BST				
	Referenced Section/ Paragraph	*TF/TC Chapter to fill in including text in the ballot as appropriate. Section 11.1.2				
	Reason	*Original Comment text, if applicable, and problem statement, including justification and suggestion, should be copied. Gage measurement accuracy is inconsistent with Table 3.				
Handle technical issue identified above as a Negative.						
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)			GO TO "Persuasive" subsection
		<input type="checkbox"/>	Negative is not related and assigned to TF. (Needs ≥2/3 votes to pass.)			
		<input type="checkbox"/>	Negative is not related and placed on agenda of current TC Chapter meeting as new business. (Needs ≥2/3 votes to pass.)			
		<input type="checkbox"/>	Reason	XXXX		
	Motion by/ 2nd by	Name (Company)/Name (Company)				
	Discussion					
	Result of Vote (check one)	XX Y-XX N; Motion passed/failed.				
		<input type="checkbox"/>	[Negative is not related.] <2/3			GO TO "Persuasive" subsection
		<input type="checkbox"/>	2/3 ≤ [Negative is not related] and assigned to TF.			GO TO "Final" subsection → (B)
		<input type="checkbox"/>	2/3 ≤ [Negative is not related] and placed on agenda of current TC Chapter meeting as new business.			
Persuasive	Motion and Reason (check one)	<input checked="" type="checkbox"/>	Negative is related and persuasive. (Needs >1/3 votes to pass.)			
		<input type="checkbox"/>	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)			
		<input type="checkbox"/>	Reason	XXXX		
	Motion by/ 2nd by	Jianzhe Liu (BST)/Yang Gan (HIT)				
	Discussion	None				
	Result of Vote (check one)	22 Y-0 N; Motion passed.				
		<input checked="" type="checkbox"/>	[Negative is related and persuasive.] > 1/3	Is a technical change recommended?	<input checked="" type="checkbox"/>	Y

		<input type="checkbox"/>	[Negative is related and not persuasive.] < 2/3	(check one)	<input type="checkbox"/>	N	GO TO "Final" subsection → (E)	
		<input type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)				
Address by Technical Change Option	Technical Change Recommendations Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.							
	Technical Changes	1	FROM: Section/Paragraph 11.1.2 11.1.2 Instrument selection: It should select an instrument that has Gage measurement accuracy within 10% of the specification tolerance.					
			TO: Section/Paragraph 11.1.2 11.1.2 Instrument selection: It should select an instrument that has Gage measurement accuracy within 10% 20% of the specification tolerance.					
			Justification (If necessary) Gage measurement accuracy should be consistent with the parameter of Table 3.					
	Motion		Negative is addressed by the technical change(s).					
	Motion by/2 nd by		Jianzhe Liu (BST)/ Yang Gan (HIT)					
	Discussion		None					
	Result of Vote (check one)		22 Y-0 N; Motion passed.					
			<input checked="" type="checkbox"/>	2/3 ≤ [Negative is addressed by the technical change(s).]	GO TO "Incorporation of the Technical Change" subsection			
			<input type="checkbox"/>	[Negative is not addressed by the technical change(s).] < 2/3	GO TO "Final" subsection → (E)			
	Incorporation of the Technical Change	Motion		To incorporate the technical change(s).				
		Motion by/2 nd by		Jianzhe Liu (BST)/ Yang Gan (HIT)				
		Discussion		None				
		Result of Vote (check one)		22 Y-0 N; Motion passed.				
				<input checked="" type="checkbox"/>	90% ≤ [Agree to incorporate.]	GO TO "Final" subsection → (F)		
		<input type="checkbox"/>	[Disagree to incorporate.] >10%	GO TO "Final" subsection → (E)				
Final	(check one)	<input type="checkbox"/>	(B)	Not related				
		<input type="checkbox"/>	(C)	Related and not persuasive				
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS			
		<input checked="" type="checkbox"/>	(F)	Addressed by technical change				
	(check if applicable)	<input type="checkbox"/>	Comment generated. See Section V-(ii) Comment # X.					

V. Comments

None

V-(ii) Comments Created by Handling Negative

None

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

None

VII. Approval Conditions Check

VII. - (i). Approval Rate

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

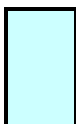
APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations ¶ 9.6.2.1.3*)

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

		Accepts		(Accepts + Valid Rejects)				
Approval Rate	=	52	/	52	=	100.0%		≥90%

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

Note: See *Regulations § 9.6.2* for further information.



Globally Approved (No Ratification Ballot needed):

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

X**Need a Ratification Ballot:**

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

VIII. Safety Check

Note: See *Regulations § 15* for further information.

Motion	X	This is not a Safety Document , when all safety-related information is removed, the Document is still technically sound and complete. (<i>Regulations ¶ 8.7.1</i>)
		This is a Safety Document , when all safety-related information is removed, the Document is not technically sound and complete. (<i>Regulations ¶ 8.7.2</i>)
		Safety Checklist (<i>Regulations ¶ 15.3</i>) is complete and has been included with the Document throughout the balloting process. (<i>Regulations ¶ 15.1.2</i>)
Motion by/2 nd by		Jianzhe Liu (BST)/ Gan Feng (Epiworld)
Discussion		None
Vote		21Y-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 technology?	Yes, at least one of them is a patented technology	GO TO IX (a) "Patented Technology" subsection
				No	GO TO IX (b) "Copyright items" subsection

IX(a) Patented Technologies subsection

IX(a1) Total numbers of Patented Technologies to be dealt with

# Fill number	(l) Known Patented Technology that might be relevant to the Standard/Safety Guideline	# Fill number	(m) Number of patented technologies first became known to the TC Chapter on or after the day of the issuance of this Letter Ballot	Postpone assessment of such patented technologies to be performed at the next scheduled TC Chapter meeting.
		# Fill number	(n) Number of patented technologies first became known to the TC Chapter before the day of the issuance of this Letter Ballot	GO TO IX (a2)

IX(a2) Assessment of disclosed patented technologies

Disclosed patented technology #1 (Brief description, e.g., patent title and number):		Date of Assessment (If different from the date of Letter Ballot adjudication) MM/DD/YYYY			
Is disclosed patented technology #1 found to be "might be material" to the Standard/Safety Guideline?		YES (It is a PMPT)	Is the use of this PMPT technically justified?	YES	PROCEED to assess NEXT one, or if this is the last one, GO TO IX(a3)
				NO	The Document is failed and returned to the TF
		NO	No further action is needed for patented technology #1		

This table is needed for each disclosed patented technology.

IX(a3) LOA status check of PMPT of which inclusion assessed to be justified

LOA Status of PMPT #1						
Has an LOA for this patented technology been received from every owner ?		YES	PROCEED to check NEXT one, or if this is the last one, GO TO IX(b)			
		NO	MOTION		Ask ISC for special permission to publish.	
					Quit activity.	The Document is failed and returned to the TF
					Wait for LOA	PROCEED to check NEXT one, or if this is the last one, GO TO IX(b1)
			Motion by/ 2 nd by		Name (Company)/Name (Company)	
			Discussion		XXXX	
			Vote		XX Y-XX N; Motion passed (or failed)	

This table is needed for each PMPT of which inclusion assessed to be justified.

IX(b1) Total numbers of copyrighted items to be dealt with

# Fill number	(o) Known copyrighted items that are used or reproduced to the Standard/Safety Guideline	o > 0	GO TO IX (b2)
		There is at least one known copy righted items that might be relevant to the Standard/Safety Guideline	
		o = 0	GO TO IX (c)
		There is no disclosed copyrighted item	

IX(b2) Assessment of disclosed copyrighted items

Disclosed copyrighted item #1 (Brief description of its use in the Document):					
Is disclosed copyrighted item #1 used or reproduced in the Standard/Safety Guideline?		YES	Is the use/reproduction of this copyrighted item technically justified?	YES	PROCEED to assess NEXT one, or if this is the last one, GO TO IX(b3)
				NO	The Document is failed and returned to the TF
			NO	No further action is needed for copyrighted item #1	

This table is needed for each disclosed copyrighted item.

IX(b3) Copyright release status check of copyrighted item of which inclusion assessed to be justified

Copyright release Status of copyrighted item #1					
Has the copyright release been received from its owner ?.		YES	PROCEED to assess NEXT one, or if this is the last one, GO TO IX(c)		
		NO	≤		Ask ISC for special permission to publish.

			Quit activity.	The Document is failed and returned to the TF
			Wait for copyright release letter	PROCEED to check NEXT one, or if this is the last one, GO TO IX(c)
			Motion by/ 2 nd by	Name (Company)/Name (Company)
			Discussion	XXXX
			Vote	XX Y-XX N; Motion passed (or failed)

This table is needed for each copyrighted item of which use/reproduction assessed to be justified.

IX(c) Assessment of disclosed (identified) trademark

Is there any trademark in the Standard/Safety Guideline?		YES	Is every instance of trademark use technically justified?	YES	GO TO IX(d)
				NO	The Document is failed and returned to the TF
		NO	GO TO IX(d)		

IX(d) IP check completion condition check

The co-chair checks if any Patented Technologies first become known to the TC Chapter on or after the day of the issuance of this Letter Ballot? i.e., m>0 in IX(a1)		YES	Sections IX(a2) and IX(a3) shall be completed and recorded for such patented technologies at next scheduled meeting of the TC Chapter. Until then, the TC Chapter shall NOT go to X (making motion to pass/fail this Document) (see Regulations ¶ 16.4.1.2) Until then this Letter Ballot Review is on hold.
		NO	GO TO X

X. Action for This Document

Motion		This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
		This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.
	X	This Document passed TC Chapter review with technical changes and with or without editorial changes and will be forwarded to the ISC A&R SC for procedural review. A Ratification Ballot will be issued to verify the technical changes.
		This Document failed TC Chapter review and will be returned to the TF for rework.
		This Document failed TC Chapter review and work will be discontinued.
Motion by/ 2 nd by		Jianzhe Liu (BST)/ Gan Feng (Epiworld)
Discussion		None
Vote		23 Y-0 N
Final Action	X	Motion passed
		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.