Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: Taiwan

Global Technical Committee: 3D Packaging and Integration TC Chapter Cochairs: Wendy Chen/ KYEC, Chien-Chung Lin/ITRI

Standards Staff: Dean Chang

	Scheduled in Background Statement	Actual
Date	01/09/2018	01/09/2018
Location	SEMI Taiwan Office	SEMI Taiwan Office
Reason for Change of Date and/or Location (if changed)	Due to delay the cycle voting	

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

I. Document Number and Title

Document Number	Document Title
5800	Guide for Wafer Edge Trimming for 3DS-IC Process

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):

Returned Votes		Distribution		Return Rate		
70	÷	116	=	60.3%	≥60%	
30						
0		Total	Vote	rs with Rejects	0	
53						
	70 30 0	70 ÷ 30	70 ÷ 116 30 0 Total	70 ÷ 116 = 30 Total Votes	70 ÷ 116 = 60.3% 30 Total Voters with Rejects	

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

III. Rejects None

IV. Other Technical Issues None

V. Comments

V- (i) Voters' Comments
Commenter 1 (Shimamoto, Haruo / AFF_AIST) - Comment 1

nme	ente	r 1 (Snima	imoto, Haruo / AFF_AIST) - Comment 1		
Comment			discription about the dimensions of notch for 300mm Wafer and faset for 200mm d some guide for particle which damage the wafer.		
nent					
Δc	Th	e TC Chapte	r agreed to do one of the following actions.		
	*No	motion is r	equired in this step.		
	Х	Alleday addressed by Comment 1, Comment 1			
Action		No further action was taken by the TC Chapter.			
			e TF for more consideration.		
		New Busine			
		Editorial Ch			
		Options for	Case 1: No vote in this section: To be included and voted on as a group in § VI. Editorial Changes Other		
		editorial	than Those Voted on in § V.		
		change (check	Case 2: Voted in this section: Original section number and at least one full sentence are required in		
		one)	"FROM" and "TO" fields.		
		FROM: Se	ection/Paragraph xxx		
Ec	1	TO: Section	on/Paragraph xxx		
Editorial Changes		Justification (If necessary)			
hange		FROM: Se	ction/Paragraph xxx		
Ø	2	TO: Section/Paragraph xxx			
		Justificati	on (If necessary)		
М	otio	າ	To approve the decision not to take action by TC chapter		
M	otio	າ by/2 nd by			

Discussion	
Vote	Y- N; Motion.

This table is needed for each Comment.

Commenter 2 (Allen, Richard / AFF NIST) - Comment 1

ЩЩ	enter 2 (Allen, Richard / AFF_NIST) - Comment 1					
Comment	If t	If this gets re-worked, I would be interested in participating.				
P.						
	Th	e TC Chapte	r agreed to do one of the following actions.			
	*N	o motion is r	equired in this step.			
₽		Already add	Iressed by Commenter #, Comment #			
Action	Х	No further action was taken by the TC Chapter.				
		Refer to the TF for more consideration.				
		New Busine	ess			
		Editorial Ch	ange			
		Options	Case 1: No vote in this section:			
		for	To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.			
		editorial change	Case 2: Voted in this section:			
		(check 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				
litorial (Justification (If necessary)				
Editorial Changes		FROM: Se	ction/Paragraph xxx			
r	2	TO: Section/Paragraph xxx				
		Justification	on (If necessary)			
M	otio	n	To approve above editorial change(s)			
М	otio	n by/2 nd by	Name (Company)/Name (Company)			
D	iscu	ssion	XXXX			
٧	ote		XX Y-XX N; Motion passed/failed.			
<u> </u>						

nme	nenter 3 (Gan, Yang / AFF_HIT) - Comment 1					
Comment	The	re are quite	a few unclear descriptions as well as grammatical errors.			
ment	6.2	6.2 "Due to" might be replaced with "Because".				
	The	e TC Chapt	er agreed to do one of the following actions.			
	*No	motion is	required in this step.			
A		Already ac	dressed by Commenter #, Comment #			
Action		No further action was taken by the TC Chapter.				
			e TF for more consideration.			
		New Busin				
	Χ	Editorial C	-			
		Options for editorial	Case 1: No vote in this section: To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.			
		change (check one)	Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.			
		FROM: Section/Paragraph 6.2 "Due to"				
Edit	1	TO: Section/Paragraph 6.2 "Because"				
orial C		Justification (If necessary) "Due to" changed to "Because".				
Editorial Changes		FROM: S	ection/Paragraph xxx			
	2	TO: Secti	on/Paragraph xxx			
		Justificat	ion (If necessary)			
M	Motion		To approve above editorial change(s)			
M	Motion by/2 nd by		Mike Chang (ITRI)/ Arthur Chen (NTUST)			
D	iscus	ssion	XXXX			
V	ote		9 Y- 0 N; Motion passed			

Com	There are quite a few unclear descriptions as well as grammatical errors.						
nent	6.3.1 "0.5mm +/- 10%" should be "0.5 mm ± 10%".						

	The	e TC Chapter agreed to do one of the following actions.			
	*No	motion is	requ	uired in this step.	
Δ		Already ac	ddres	ssed by Commenter #, Comment #	
Action		No further	actio	on was taken by the TC Chapter.	
		Refer to th	ne TF	for more consideration.	
		New Busir	ness		
	Χ	Editorial C	hanç		
		Options	_	Case 1: No vote in this section:	
		for editorial	Х	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: S	ectio	on/Paragraph 6.3.1 "0.5mm +/- 10%"	
Edi	1	TO: Section/Paragraph 6.3.1 "0.5 mm ± 10%".			
Editorial Changes		Justification (If necessary) 6.3.1 "0.5mm +/- 10%" changed to "0.5 mm ± 10%".			
hanges		FROM: Section/Paragraph xxx			
ľ	2	TO: Section/Paragraph xxx			
		Justification (If necessary)			
М	Motion		Т	o approve above editorial change(s)	
M	Motion by/2 nd by		N	/like Chang (ITRI)/ Arthur Chen (NTUST)	
Di	Discussion			XXX	
Vo	Vote			Y- 0 N; Motion passed	

Com	There are quite a few unclear descriptions as well as grammatical errors.						
ment	6.4	6.4.1 "post-wafer-thinning" should be "post-thinning wafer thickness".					
	The	The TC Chapter agreed to do one of the following actions.					
D	*No motion is required in this step.						
ctio	Already addressed by Commenter #, Comment #						
ľ		No further action was taken by the TC Chapter.					
		Refer to the TF for more consideration.					

		New Busir	ness		
	Χ	Editorial Change		ge	
		Options for editorial		Case 1: No vote in this section:	
			Х	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: S	ectic	on/Paragraph 6.4.1 "post-wafer-thinning"	
Ed	1	TO: Section/Paragraph 6.4.1 "post-thinning wafer thickness".			
Editorial Changes		Justification (If necessary) 6.4.1 "post-wafer-thinning" changed to "post-thinning wafer thickness".			
hange		FROM: Section/Paragraph xxx			
S	2	TO: Section/Paragraph xxx			
		Justification (If necessary)			
M	Motion		Т	o approve above editorial change(s)	
M	Motion by/2 nd by		N	like Chang (ITRI)/ Arthur Chen (NTUST)	
Di	scus	sion	X	XXX	
Vo	Vote			Y- 0 N; Motion passed	

Com	There are quite a few unclear descriptions as well as grammatical errors.				
omment	6.4.	6.4.1 "that you need" might be removed.			
	The	TC Chapt	ter aç	greed to do one of the following actions.	
	*No	*No motion is required in this step.			
Δ		Already addressed by Commenter #, Comment #			
Action		No further action was taken by the TC Chapter.			
		Refer to the TF for more consideration.			
		New Business			
	Χ	Editorial Change			
		Options		Case 1: No vote in this section:	
		for editorial	Х	To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.	
		2 2 2		Case 2: Voted in this section:	

		change (check one)	Original section number and at least one full sentence are required in "FROM" and "TO" fields.				
		FROM: Sec	ction/Paragraph 6.4.1 "that you need"				
Edi	1	TO: Section/Paragraph 6.4.1 "that you need" was deleted.					
Editorial Changes		Justification (If necessary) Deleted "that you need".					
sapges		FROM: Section/Paragraph xxx					
	2	TO: Section/Paragraph xxx					
		Justification	on (If necessary)				
М	otion		To approve above editorial change(s)				
М	otion	by/2 nd by	Mike Chang (ITRI)/ Arthur Chen (NTUST)				
Di	Discussion		XXXX				
Vo	ote		9 Y- 0 N; Motion passed				

Comment	The	There are quite a few unclear descriptions as well as grammatical errors.					
nent	6.4.	.1 "150μm	+/-	10% " should be " $150 \ \mu m \pm 10\%$ ".			
	The	TC Chapt	er aç	greed to do one of the following actions.			
	*No	motion is	requ	uired in this step.			
Δ		Already addressed by Commenter #, Comment #					
Action		No further	No further action was taken by the TC Chapter.				
		Refer to the TF for more consideration.					
		New Business					
	Χ	Editorial C	hang				
				Case 1: No vote in this section:			
		Options for editorial change	X	To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.			
		(check		Case 2: Voted in this section:			
		one)		Original section number and at least one full sentence are required in "FROM" and "TO" fields.			

	1	FROM: Sec	ction/Paragraph 6.4.1 "150µm +/- 10%"				
Ę		TO: Section/Paragraph 6.4.1 "150 μm ± 10%".					
Editorial Changes		Justification (If necessary) 6.4.1 "150μm +/- 10%" changed to "150 μm ± 10%".					
:hange		FROM: Section/Paragraph xxx					
S	2	TO: Sectio	TO: Section/Paragraph xxx				
		Justification	on (If necessary)				
М	otion		To approve above editorial change(s)				
М	otion	by/2 nd by	Mike Chang (ITRI)/ Arthur Chen (NTUST)				
D	iscus	ssion	XXXX				
V	Vote		9 Y- 0 N; Motion passed				

		· • (•••···		g/All_ini) - comment c			
Comment	The	There are quite a few unclear descriptions as well as grammatical errors.					
ment	6.4	.1 "100μm	" she	ould be "100 μm".			
	The	e TC Chapt	ter a	greed to do one of the following actions.			
	*No	motion is	requ	uired in this step.			
Þ		Already a	ddres	ssed by Commenter #, Comment #			
Action		No further	actio	on was taken by the TC Chapter.			
		Refer to the	ne TF	for more consideration.			
		New Busi	ness				
	Χ	Editorial Change					
		Options for editorial	for	Case 1: No vote in this section:			
				To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.			
		change (check		Case 2: Voted in this section:			
		one)		Original section number and at least one full sentence are required in "FROM" and "TO" fields.			
Edit	1	FROM: S	ectio	on/Paragraph 6.4.1 "100μm"			
Editorial		TO: Secti	on/P	aragraph 6.4.1 "100 μm".			

			on (If necessary) im" changed to "100 µm".					
	2	FROM: Sec	FROM: Section/Paragraph xxx					
		TO: Sectio	O: Section/Paragraph xxx					
		Justification	Justification (If necessary)					
M	otior	1	To approve above editorial change(s)					
M	otior	by/2 nd by	Mike Chang (ITRI)/ Arthur Chen (NTUST)					
D	Discussion		XXXX					
٧	Vote		9 Y- 0 N; Motion passed					

Com

m <u>m</u>	nenter 3 (Gan, Yang / AFF_HIT) - Comment 7							
	The	There are quite a few unclear descriptions as well as grammatical errors.						
Comment	wat also and dep	6.4.1 "In other words, the wafer edge trimming depth is defined as the thickness of post-wafer-thinning thickness plus 50µm to prevent the chipping issue from happening and also reserve enough margins for the subsequent uniformity control in TSV protrusion and wafer thickness" might be changed to "In other words, the wafer edge trimming depth is set to be d+50 µm so that chipping is prevented and enough margins are reserved for the subsequent uniformity control in TSV protrusion and wafer thickness."						
	Th	e TC Chapt	er a	greed to do one of the following actions.				
	*No	motion is	requ	uired in this step.				
Þ		Already addressed by Commenter #, Comment #						
Action		No further action was taken by the TC Chapter.						
1		Refer to th	ne TF	for more consideration.				
		New Busir	ness					
	Χ	Editorial C	hanç	ge				
		Options		Case 1: No vote in this section:				
		for editorial	Х	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.				
Editorial	FROM: Section/Paragraph 6.4.1 "In other words, the wafer edge trimming depth is defined as the thickness of post-wafer-thinning thickness plus 50µm to prevent the chipping issue from happening and also reserve enough margins for the subsequent uniformity control in TSV protrusion and wafer thickness"							

TO: Section/Paragraph 6.4.1 "In other words, the wafer edge trimming depth is set to be d+50 µm so that chipping is prevented and enough margins are reserved for the subsequent uniformity control in TSV protrusion and wafer thickness." **Justification (If necessary)** 6.4.1 "In other words, the wafer edge trimming depth is defined as the thickness of post-wafer-thinning thickness plus 50µm to prevent the chipping issue from happening and also reserve enough margins for the subsequent uniformity control in TSV protrusion and wafer thickness" changed to "In other words, the wafer edge trimming depth is set to be d+50 µm so that chipping is prevented and enough margins are reserved for the subsequent uniformity control in TSV protrusion and wafer thickness." FROM: Section/Paragraph xxx TO: Section/Paragraph xxx 2 **Justification (If necessary) Motion** To approve above editorial change(s) Motion by/2nd by Mike Chang (ITRI)/ Arthur Chen (NTUST) XXXX **Discussion** Vote 9 Y- 0 N; Motion passed

Comment	There are quite a few unclear descriptions as well as grammatical errors.								
nent	6.5	6.5.1 "therefore" might be removed.							
	The	e TC Chapt	ter aç	greed to do one of the following actions.					
	*No	motion is	requ	uired in this step.					
Δ		Already addressed by Commenter #, Comment #							
Action		No further	ner action was taken by the TC Chapter.						
ľ		Refer to th	ne TF	for more consideration.					
		New Busi	ness	SS					
	Χ	Editorial Change							
		Options		Case 1: No vote in this section:					
		for editorial	Х	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.					

ЬЭ		FROM: Sec	tion/Paragraph 6.5.1 "therefore"	
	1	TO: Section	n/Paragraph 6.5.1 "therefore" was deleted.	
Editorial Changes		Justification (If necessary) 6.5.1 Deleted "therefore".		
hanges		FROM: Sec	tion/Paragraph xxx	
	2	TO: Section	n/Paragraph xxx	
		Justificatio	n (If necessary)	
M	otion	1	To approve above editorial change(s)	
M	otion	by/2 nd by	Mike Chang (ITRI)/ Arthur Chen (NTUST)	
Di	scus	ssion	XXXX	
V	Vote		9 Y- 0 N; Motion passed	

Comment	The	There are quite a few unclear descriptions as well as grammatical errors.						
nent	6.5	6.5.1 "Thus cleaning process" might be changed "Therefore, the post-cleaning process".						
	The	e TC Chapt	ter a	greed to do one of the following actions.				
	*No	motion is	requ	uired in this step.				
P		Already a	ddres	ssed by Commenter #, Comment #				
Action		No further	actio	on was taken by the TC Chapter.				
		Refer to the	ne TF	for more consideration.				
		New Busi	ness					
	Χ	Editorial Change						
		Ontions	Options for editorial	Case 1: No vote in this section:				
				To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.				
		change	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.				
Editorial	1	FROM: Section/Paragraph 6.5.1 "Thus cleaning process"						
rial		TO: Sect	ion/F	Paragraph 6.5.1 "Therefore, the post-cleaning process".				

			on (If necessary) cleaning process" changed to "Therefore, the post-cleaning process".					
	2	FROM: Section/Paragraph xxx						
		TO: Sectio	O: Section/Paragraph xxx					
		Justification (If necessary)						
M	otior	1	To approve above editorial change(s)					
М	Motion by/2 nd by		Mike Chang (ITRI)/ Arthur Chen (NTUST)					
Discussion		ssion	XXXX					
Vote			9 Y- 0 N; Motion passed					

Con

m <u>m</u>	ente	r 3 (<mark>Gan,</mark>	Yar	g / AFF_HIT) - Comment 10				
	The	ere are quite	e a fe	w unclear descriptions as well as grammatical errors.				
Comment	em pro	6.5.1 "Big particles existing on the surface of the bonded wafers, even they are embedded in the adhesive glue, would still cause wafer crack after the wafer thinning process" might be changed to "Big particles exist on the surface of the bonded wafers. Although these particles might be embedded in the adhesive glue, they would still cause wafer crack after the wafer thinning process.						
	Th	e TC Chap	ter a	greed to do one of the following actions.				
	*N	o motion is	requ	uired in this step.				
P		Already addressed by Commenter #, Comment #						
Action		No further action was taken by the TC Chapter.						
ľ		Refer to the TF for more consideration.						
		New Busi	ness					
	Х	Editorial C	Chan	ge				
		Options		Case 1: No vote in this section:				
		for editorial	X	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.				
Editorial	1	FROM: Section/Paragraph 6.5.1 "Big particles existing on the surface of the bonded wafers, even they are embedded in the adhesive glue, would still cause wafer crack after the wafer thinning process"						

	Although t	n/Paragraph 6.5.1 "Big particles exist on the surface of the bonded wafers. hese particles embedded in the adhesive glue, they would still cause wafer the wafer thinning process."						
	6.5.1 "Big embedded process" Although t	Justification (If necessary) 6.5.1 "Big particles existing on the surface of the bonded wafers, even they are embedded in the adhesive glue, would still cause wafer crack after the wafer thinning process" changed to "Big particles exist on the surface of the bonded wafers. Although these particles embedded in the adhesive glue, they would still cause wafer crack after the wafer thinning process."						
	FROM: Se	ction/Paragraph xxx						
2	TO: Section	n/Paragraph xxx						
	Justification (If necessary)							
Motio	n	To approve above editorial change(s)						
Motio	n by/2 nd by	Mike Chang (ITRI)/ Arthur Chen (NTUST)						
Discu	XXXX							
Vote		9 Y- 0 N; Motion passed						

Commenter 4 (Vargas Bernal, Rafael / AFF_ Instituto Tecnologico) - Comment 1

Comment	Sec	Section 5 terminology is very brief.							
nt									
	The	e TC Chapt	er aç	greed to do one of the following actions.					
	*No	motion is	requ	uired in this step.					
P		Already addressed by Commenter #, Comment #							
Action	Х	No further action was taken by the TC Chapter.							
		Refer to th	Refer to the TF for more consideration.						
	New Business								
	Editorial Change								
		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.					

	1	FROM: Section/Paragraph xxx						
Ti.		TO: Section/Paragraph xxx						
Editorial Changes		Justification (If necessary)						
Change		FROM: Sec	FROM: Section/Paragraph xxx					
Š	2	TO: Section/Paragraph xxx						
		Justificatio	on (If necessary)					
М	otion	1	To approve above editorial change(s)					
М	Motion by/2 nd by		Name (Company)/Name (Company)					
D	Discussion		XXXX					
٧	Vote		XX Y-XX N; Motion passed/failed.					

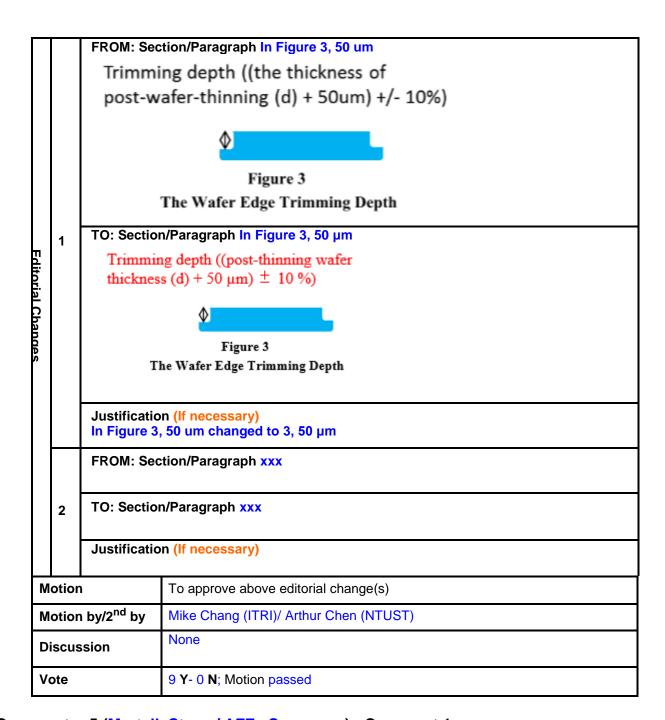
Commenter 4 (Vargas Bernal, Rafael / AFF_ Instituto Tecnologico) - Comment 2

Comment	Sep	Separate values of units in subsections 6.3.1 and 6.4.1						
Ď.								
	Th	e TC Chap	ter a	greed to do one of the following actions.				
	*No	motion is	requ	uired in this step.				
Þ		Already a	ddres	ssed by Commenter #, Comment #				
Action		No further action was taken by the TC Chapter.						
ľ		Refer to the TF for more consideration.						
		New Business						
	Χ	Editorial Change						
		Options	Х	Case 1: No vote in this section:				
		for editorial		To be included and voted on as a group in § VI. <i>Editorial Changes Other than Those Voted on in § V.</i>				
		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.				
Editoria	1	FROM: S	Section	on/Paragraph 6.3.1 "0.5mm +/- 10%"				
rial	'	TO: Sect	ion/F	Paragraph 6.3.1 "0.5 mm ± 10%".				

		Justification (If necessary) 6.3.1 "0.5mm +/- 10%" changed to "0.5 mm ± 10%".							
		FROM: Section/Paragraph 6.4.1 "100µm"							
	2		TO: Section/Paragraph 6.4.1 "100 µm".						
		Justification (If necessary) 6.4.1 "100μm" changed to 6.4.1 "100 μm".							
M	otior	1	To approve above editorial change(s)						
M	Motion by/2 nd by		Mike Chang (ITRI)/ Arthur Chen (NTUST)						
D	iscus	ssion	XXXX						
V	ote		9 Y- 0 N; Motion passed						

Commenter 4 (Vargas Bernal, Rafael / AFF_ Instituto Tecnologico) - Comment 3

Comment	In F	In Figure 3 50 um must be changed to micrometers								
ent										
	The	TC Chapt	ter aç	greed to do one of the following actions.						
	*No	motion is	requ	uired in this step.						
Δ		Already addressed by Commenter #, Comment #								
Action		No further action was taken by the TC Chapter.								
		Refer to the TF for more consideration.								
		New Business								
	Χ	Editorial Change								
		Options		Case 1: No vote in this section:						
		for editorial	Х	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.						



Commenter 5 (Martell, Steve / AFF_ Sonoscan) - Comment 1

Comment		Perhaps this should be a 'Standard' rather than a 'Guide'? I realize a 'Guide' is easier to get approval.								
ent	The	e TC Chapter agreed to do one of the following actions.								
	In	e 10 Chapter agreed to do one of the following actions.								
Action	*No	motion is required in this step.								
B.		Already addressed by Commenter #, Comment #								
	Х	No further action was taken by the TC Chapter.								

		Refer to th	e TF for more consideration.					
		New Busin	ess					
		Editorial Change						
		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: Secti	n/Paragraph xxx					
Editorial Changes		Justification (If necessary)						
hange		FROM: Section/Paragraph xxx						
ŗ	2	TO: Secti	TO: Section/Paragraph xxx					
		Justification (If necessary)						
М	otion	1	To approve above editorial change(s)					
M	Motion by/2 ⁿ		Name (Company)/Name (Company)					
Di	iscus	ssion	XXXX					
V	ote		XX Y-XX N; Motion passed/failed.					

V-(ii) Comments Created by Handling Negative None

VI. Editorial Changes Other than Those Voted on in § V None

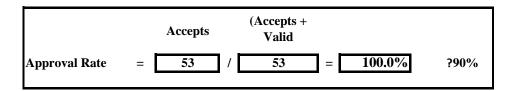
VII. Approval Conditions Check

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* ¶ 9.7.1.2)

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.



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	This is not a Safety Document , when all safety-related information is removed, the Documer is still technically sound and complete. (<i>Regulations</i> ¶ 8.7.1)							
Motion			This is a Safety Document, when all safety-related information is removed, the Document is technically sound and complete. (<i>Regulations</i> ¶ 8.7.2)						
	Safety Checklist (<i>Regulations</i> ¶ 15.3) is complete and has been included with the Dotthroughout the balloting process. (<i>Regulations</i> ¶ 15.1.2)								
	Motion by/2 nd by		by/2 nd by	March Chang(ITRI)/ Lai-Cheng Kong(MPUGTW)					
	D	iscı	ussion	None					
		V	ote	9Y- 0N; Motion					

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	ma	The TC Chapter meeting chair asked those participating, if they were aware of any potentially material patented technology or copyrighted items* in the Standard or Guideline. (<i>Regulations</i> ¶ 8.8.1)				
	X	No potentially material patented technology or reproduction of copyrighted items is known.	GO TO SECTION X.			

	Potentially material patented technology or reproduction of copyrighted items is known, but a Letter of Assurance (LOA) or copyright release letter for such items has been obtained or presented to the TC Chapter.								
		Potentially material patented technology or reproduction of copyrighted items is known and use of such materials is technically justified by the TC Chapter, but an LOA or copyright release letter for some of the item(s) has NOT been obtained or presented to the TC Chapter.							
	<		Ask ISC f	or spec	cial permission to publish.				
	Motion		Quit activ	Quit activity.					
	Š		Wait for L	OA for	OA for patented technology or release of copyrighted items.				
	Motion by/2 nd by			Name	Name (Company)/Name (Company)				
Ī	Discussion			XXXX					
Ī	Vote			XX Y-XX N					
	_				Motion passed				
		Final Action			Motion failed				

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

X. Action for This Document

		This Document passed TC Chapter review as balloted and will be forwarded to the ISC A SC for procedural review.						
M	X	This Document passed TC Chapter review with editorial changes and will be forwarded to 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.						
	Motion by/ 2 nd by		March Chang(ITRI)/ Lai-Cheng Kong(MPUGTW)					
	Discussion		None					
	۷	ote	9Y- 0N					
F	inal	Action	X Motion passed					
	Final Action		Motion failed					

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

	Approved for publication
	Approved pending acceptance of the Ratification Ballot
	Not approved
Re	ason:
	Re