Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: Japan

Global Technical Committee: PI&C

TC Chapter Cochairs: Tsuyoshi Nagashima / Miraial, Daisuke Sado / Daihen, Yasuhisa Itou / Murata

nachinery

Standards Staff: Chie Yanagisawa

	Scheduled in Background Statement	Actual					
Date	04/15/2020	09/10/2020					
Location	SEMI Japan office, Tokyo	SEMI Japan office, Tokyo					
Reason for	In response to Tokyo municipal govern						
Change of Date	home, SEMI Japan has decided not to h	•					
and/or Location	the SEMI Japan office until the end of April. SEMI Japan also decided to						
(if changed)	postpone and reschedule PI&C Japan 7	ΓC Chapter Meeting on April 15.					

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

I. Document Number and Title

Document Number	Document Title
6621	New Subordinate Standard – SPECIFICATION FOR
	PANEL FOUP FOR 600 to 600 mm PANEL SIZE and 12
	SLOTS

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):

Returned Votes		Distribution		Return Rate	
52	÷	80	=	65.0%	≥60%
36					
2		Total Vo	ters	with Rejects	2
38					
	52 36 2	2	52 ÷ 80 36 2 Total Vo	52 ÷ 80 = 36 2 Total Voters	52 ÷ 80 = 65.0% 36 2 Total Voters with Rejects

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

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: TEL) Voter Reject 1 (Voter: Supica Mashiro/Tokyo Electron Ltd.) Negative 1

	ative i									
	Referenced Section/	*TF/	TC Chapter to fill in, including tex	t in the ballot if nec	essary.					
	Paragraph	Procedural issue								
Negative		*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.								
ative	Negative Text	"be trave peo "Del	providing start time of the TC Chapt conducted is not appropriate. This co eling) in disadvantage for participating ble who intend to participate the Rev ay of scheduled start time or early en ould not have impact on members' rig	ould put people from g the Review). Esse iew to make it should nding in actual meeti	distant location (e.g., 4hours of ntial information for all the d be given." ng wouldn't be a problem, as"					
TF	input (optional)									
	Withdrawal		No Negative withdrawal made by Vo	oter.	GO TO "Related" subsection					
	(check one)	X	Withdrawal document received by S 09/04/2020.	Standards staff on	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	3 votes to pass.)						
	(check one)		Reason XXXX							
Rel	Motion by/ 2 nd by	Nan	ne (Company)/Name (Company)							
Related	Discussion									
		XX '	∕ -XX N ; Motion passed/failed.							
	Result of Vote (check one)		[Negative is not related.] < 2/3		GO TO "Persuasive" subsection					
	(61100110)		2/3 ≤ [Negative is not related.]		GO TO "Final" subsection → (B)					
	Matian and		Negative is related and persuasive.	(Needs >1/3 votes	to pass.)					
Pe	Motion and Reason (check one)		Negative is related and not persuas	tes to pass.)						
Persuasive	(1 11 1 1)		Reason XXXX							
ive	Motion by/ 2 nd by	Name (Company)/Name (Company)								
	Discussion									
		XX	/-XX N; Motion passed/failed.							

	1		ĺ										
						e is related and ve.] > 1/3	Is a technical change recommended?		Y	GO TO "Address by Technical Change Option" subsection			
			of Vote k one)			e is related and not ve.] < 2/3	(check one)		N	GO TO "Final" subsection → (E)			
						© [Negative is related not persuasive.] < 90% GO TO "Final" subsection → (C)							
				90%	6 ≤ [Negative is related not persuasive.] GO TO "Not Significant Finding Option" subsection								
				e Recon	nme	ndations	one full sentence	are r	ean	ired in "FROM" and "TO"			
	fields							uic i	- Gqu	med in Treem and Te			
					ction/Paragraph XXX								
		1	TO: Sed	ction/Par	agra	iph xxx							
	echn		Justific	ation (If	nece	essary)							
	Technical Changes		FROM:	Section/I	Para	graph XXX							
Address by Technical Change Op	anges	2	TO: Sed	ction/Par	ragraph xxx								
ss b			Justific	ification (If necessary)									
/ Тес													
hnic	Motio	on			Neg	ative is addressed by	the technical cha	nge(s	s).				
cal C	Motio	on k	y/2 nd by	1	Nan	ne (Company)/Name	(Company)						
han	Disc	uss	ion										
ge (XX '	Y-XX N; Motion pass	ed/failed.			CO TO "Incomparation of the			
Option			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 addressed by the technical change(s).] < 2/3				GO TO "Final" subsection → (E)			
	-	Мс	tion		To incorporate the technical change(s).								
	ncol Tec		tion by/2		Name (Company)/Name (Company)								
	rpora hnica	Dis	scussion	1									
	ition				XX '	Y-XX N; Motion pass	ed/failed.						
	Incorporation of the Technical Change		Result o			90% ≤ [Agree to inco	orporate.]			GO TO "Final" subsection → (F)			
	ļ		(check	,		[Disagree to incorpo	<u>-</u>			GO TO "Final" subsection → (E)			
Not Significan						"if the TC Chapter ons voting on the ac				uasive by a vote equal to or 1.4.5.2)			
yt fican	It is mutually agreed upon to term the Negative "not significant". GO TO "Final" → (D)									GO TO "Final" subsection → (D)			

	Use of "Not significant finding option"		It is mutually a "significant".	greed upon to term the Negative	GO TO "Final" subsection → (C)					
	(check one)		Whether or not	Whether or not the Negative is "not significant" is decided by a vote.						
	Motion	The	Negative is "no	t significant".						
	Motion by/ 2 nd by	Nan	me (Company)/Name (Company)							
	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)					
		Χ	(A)	Withdrawn (counted under h in dis	sposition)					
			(B)	Not related (counted under i in dis	position)					
	(check if		(C)	Related and not persuasive (signific	ant)					
Final	applicable)		(D)	Not significant (counted under j in	n disposition)					
<u>a</u>			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS					
			(F)	Addressed by technical change (cou	unted under k disposition)					
	(check if applicable)		Comment gene	erated. See Section V-(ii) Comment # 2	X.					

This table is needed for each Negative.

Negative 2

	alive Z									
	Referenced Section/ Paragraph		*TF/TC Chapter to fill in, including text in the ballot if necessary. 1 and 2							
	i aragrapii									
		*Orig		ve text (e.g., issue, justification	, suggestion) should be					
Negative		Negative/ It is unclear what is different in this Subordinate Standard from the Primary Standard. Rewrite section 1 and 2 to conform PM 3.8.3.2								
/e	Negative Text	PM r distir PM 3 its di cove	Justification PM requires the purpose and scope section of a Subordinate Standard to define its distinction from the Primary Standard. PM 3.8.3.2 A Subordinate Standard requires its own purpose and scope sections to define its distinction from the Primary Standard and to specify the technical area that the Standard covers and may or may not contain all of the required sections to conform to the required sections found in § 3.2.							
TF	input (optional)									
	Withdrawal	Х	No Negative withdrawa	I made by Voter.	GO TO "Related" subsection					
	(check one)		Withdrawal document re MM/DD/YYYY.	GO TO "Final" subsection → (A)						
	Motion and	X	'Related' is mutually agreed upon. (Needs no motion.)		GO TO "Persuasive" subsection					
고	Reason		Negative is not related.	(Needs ≥2/3 votes to pass.)						
Related	(check one)		Reason	xxxx						
	Motion by/ 2 nd by	Nam	e (Company)/Name (Co	ompany)						

	Di	scu	ssion								
				XX	Y-XX N; Motion passe	d/failed					
			of Vote k one)		[Negative is not relate	ed.] < 2/	3		GO TO "Persuasive" subsection		
	,		,		2/3 ≤ [Negative is not	related	.]		GO TO "Final" subsection → (B)		
	Ma	\tio	n and	X	Negative is related and persuasive. (Needs >1/3 votes to pass.)						
	F	Rea	son k one)		Negative is related an	d not p	ersuasive. (Needs	s ≥2/3	3 votes to pass.)		
					Reason	XXXX	<				
Pe			n by/ by	Sho	ji Komatsu (Acteon) / T	Tsukasa	a Fukunaga (Shin-	Etsu	Polymer)		
)SJ6	Di	scu	ssion	Non	ne						
Persuasive				6 Y-	-0 N; Motion passed		•				
ve	Pas	sult of Vote		X	[Negative is related ar persuasive.] > 1/3	nd	Is a technical change recommended?	Х	Y GO TO "Address by Technical Change Option" subsection		
	(check one)				[Negative is related ar persuasive.] < 2/3		(check one)		N GO TO "Final" subsection → (E)		
		and			2/3 ≤ [Negative is rela and not persuasive.] <	< 90%					
					90% ≤ [Negative is rel and not persuasive.]	lated	GO TO "Not Sig	nifica	ant Finding Option" subsection		
		nal			ecommendations agraph number and a	t least	one full sentence	are	required in "FROM" and "TO"		
			FROM:	Section/Paragraph 1.1							
Addre				purpose of this Document is to establish basic physical dimensions for the Panel FOUP intransport and store Panels.							
d SS		1	TO: Se	ction	n/Paragraph 1 1						
y T				Section/Paragraph 1.1 The This specification is part of a suite of standards purpose of this Document is to establish b							
echn-	ech			ons for the Panel FOUP intended to be used to transport and store Panels.							
iical C	Technical Changes		Justific	atio	n (If necessary)						
har	Cha		FROM:	Sect	tion/Paragraph 2.1						
\ddress by Technical Change Option	nges				omment specifies the Panel of mm panel and 12 slots.	FOUPs	by the relevant SEM	II Star	ndard (SEMI Draft Document 6618) for		
ion		2	TO: Section/Paragraph 2.1								
									ination of 12-slots Panel FOUP for 600 Standard-This Document specifies the		
									618) for 600 mm × 600 mm panel and		

		Justific	ation (If	nec	essary)			
	Motic			Neg	ative is a	ddressed by the technical change(s).		
	Motic	on by/2 nd by	,	Sho	ji Komat	su (Acteon) / Tsukasa Fukunaga (Sh	in-Etsu Polymer)	
		ussion		non			• •	
						ion nassad		
				0 1-	S Y-0 N; Motion passed GO TO "Incorporation of the control of the		GO TO "Incorporation of the	
	Result of Vote (check one)			X	2/3 ≤ [No change(egative is addressed by the technical s).]	Technical Change" subsection	
						e is not addressed by the technical s).] < 2/3	GO TO "Final" subsection → (E)	
	_ =	Motion		To i	ncorpora	te the technical change(s).		
	<u>ଟ୍ରି</u> Motion by/2 nd by			Sho	ji Komat	su (Acteon) / Tsukasa Fukunaga (Sh	in-Etsu Polymer)	
	por	Discussion	1	non	е			
	atio al C			6 Y-	0 N; Moti	on passed		
	Incorporation of the Technical Change	Result o		X	90% ≤ [A	Agree to incorporate.]	GO TO "Final" subsection → (F)	
	he Je	(CHECK	one)		[Disagre	e to incorporate.]>10%	GO TO "Final" subsection → (E)	
Not S			of the plant	mut	ually agre	C Chapter finds a Negative not pers on the action". (Regulations ¶ 9.6 eed upon to term the Negative "not		
ign		e of "Not	sigr	nifica	nt".		→ (D)	
Not Significant Option	findi	gnificant ng option" leck one)		is mutually agreed upon to term the Negative significant".		eed upon to term the Negative	GO TO "Final" subsection → (C)	
t Finding	(01)	icok one)	Wh	Whether or not the Negative is "not significant" is decided by a vote.				
din	I	Motion	The Neg	gative is "not significant".				
B		otion by/ 2 nd by	Name (0	(Company)/Name (Company)				
		Vote	XX	Y-X>	≺ N ; 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)	
				(A)	Withdrawn (counted under h in disp	oosition)	
				(В)	Not related (counted under i in disp	osition)	
_	•	check if		(C)	Related and not persuasive (significa	,	
Final	ар	plicable)		(D)	Not significant (counted under j in d	isposition)	
<u>a</u>					E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS	
			Х	(F)	Addressed by technical change (coul	nted under k disposition)	
	•	check if plicable)	Coi	mme	nt genera	ted. See Section V-(ii) Comment # X		

Negative 3

Neg	ative 3								
	Referenced Section/	•	ncluding text in the ballot if ne	ecessary.					
	Paragraph	2.1							
Negative	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. Negative/ Unpublished Document shall not be referred							
	3		andard" should be OK as this D to a specific Primary Standard.	ocument is under development					
TF	input (optional)								
	Withdrawal	X No Negative withdrawa		GO TO "Related" subsection					
	(check one)	Withdrawal document r MM/DD/YYYY.	received by Standards staff on	GO TO "Final" subsection → (A)					
	Motion and	X 'Related' is mutually ag	reed 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 nd by	Name (Company)/Name (Company)							
Related	Discussion								
		XX Y-XX N; Motion passed	/failed.						
	Result of Vote (check one)	[Negative is not related	GO TO "Persuasive" subsection						
	,	2/3 ≤ [Negative is not re	GO TO "Final" subsection → (B)						
	Matian and	X Negative is related and	persuasive. (Needs >1/3 votes	s to pass.)					
	Motion and Reason (check one)	Negative is related and	not persuasive. (Needs ≥2/3 v	otes to pass.)					
		Reason	xxxx						
Persuasive	Motion by/ 2 nd by	Shoji Komatsu (Acteon) / Ts	sukasa Fukunaga (Shin-Etsu Po	lymer)					
suas	Discussion	none							
sive		6 Y-0 N; Motion passed							
	Result of Vote	X [Negative is related and persuasive.] > 1/3	Is a technical change recommended?	GO TO "Address by Technical Change Option" subsection					
	(Silook Olle)	[Negative is related and persuasive.] < 2/3		GO TO "Final" subsection → (E)					
		2/3 ≤ [Negative is relate and not persuasive.] <		ion → (C)					

						Negative is related persuasive.]	GO TO "Not Significant	Finding Option" subsection				
				je Recon	nme	ndations						
	Origi fields		section/	paragrap	oh n	umber and at least (one full sentence are requ	uired in "FROM" and "TO"				
			FROM:	Section/F	Para	graph <mark>2.1</mark>						
	Technical Changes				ment specifies the Panel FOUPs by the relevant SEMI Standard (SEMI Draft Document 6618) for mm panel and 12 slots.							
		1	2.1 <u>This</u> Panel F Standar	s docum OUP for d. This I	n/Paragraph 2.1 ocument specifies the dimensions that are specific to the combination of 12-slots of 12 for 600 mm x 600 mm panel. Common dimensions are defined in the Primary of 12 for 500 mm specifies the Panel FOUPs by the relevant SEMI Standard (SEMI standard for 6018) for 600 mm × 600 mm panel and 12 slots.							
	al Ch			ustification (If necessary)								
Addres	anges		FROM:	Section/F	Para	graph XXX						
Address by Technical Change Option		2	TO: Sec	ction/Par	agra	aph xxx						
echi			lug4ifig	ation (If								
nical (Justification (If necessary)										
Char	Motio	on			Neg	ative is addressed by	the technical change(s).					
nge (Motio	on k	oy/2 nd by	1	Sho	ji Komatsu (Acteon) /	[/] Tsukasa Fukunaga (Shin-	Etsu Polymer)				
Optio	Disc	uss	ion			technical change the ress this Negative.	at was incorporated to add	dress Negative 2 can also				
ň					6 Y-0 N; Motion passed							
			sult of V		X	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)				
	_ F	Мс	otion		To incorporate the technical change(s).							
	cor		tion by/	_	Shoji Komatsu (Acteon) / Tsukasa Fukunaga (Shin-Etsu Polymer)							
	oora nica	Dis	scussion	1	non							
	tion al Cr					0 N; Motion passed	_	GO TO "Final" subsection				
	Incorporation of the Technical Change		Result o		X	90% ≤ [Agree to inco	orporate.]	→ (F)				
	,,		<u> </u>	ŕ		[Disagree to incorpo	<u>- </u>	GO TO "Final" subsection → (E)				
Not Fin	This great	opt ter t	ion can than 90%	be used 6 6 of the p	only erso	if the TC Chapter ons voting on the ac	finds a Negative not pers ction". (<i>Regulations</i> ¶ 9.6	suasive by a vote equal to or .1.4.5.2)				
t Sign ding (Us	e o	f "Not		muti ifica		term the Negative "not	GO TO "Final" subsection → (D)				
Not Significant Finding Option	si findi	gnif ing	ficant option"		muti nifica	ually agreed upon to ant".	term the Negative	GO TO "Final" subsection → (C)				
	(check one) Whether or not the Negative is "not significant" is decided by a vote.							ed by a vote.				

	Motion	The	The Negative is "not significant". Iame (Company)/Name (Company)								
	Motion by/ 2 nd by	Nar									
	Vote		XX Y-XX N; Mc	otion passed with simple majority	GO TO "Final" subsection → (D)						
	vote		XX Y-XX N; Mc	otion failed with simple majority	GO TO "Final" subsection → (C)						
			(A)	Withdrawn (counted under h in d	isposition)						
			(B)	Not related (counted under i in di	isposition)						
	(check if		(C)	Related and not persuasive (signification)	icant)						
Final	applicable)		(D)	Not significant (counted under j ir	n disposition)						
a			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS						
		Χ	(F)	Addressed by technical change (co	ounted under k disposition)						
	(check if applicable)		Comment generated. See Section V-(ii) Comment # X.								

This table is needed for each Negative.

Disposition of Voting Interest Reject 1

Check only when the Document has not been failed.

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

This table is needed for each Voting Interest Reject.

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* ¶ 9.6.1.4.5.2)

Voting Interest Reject 2 (Voting Interest Name: Middlesex) Voter Reject 1 (Voter: George W Horn/Middlesex Industries SA)

Negative 1

	Referenced Section/	*TF/TC Chapter to fill in, including text in the ballot if nec Paragraph 15 and Figure 18 and 19	essary.					
	Paragraph	•						
Negative	Paragraph Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. Please see negative of doc. 6618 also apply here <doc.6618> This negative ballot accepts the proposed standard in its entirety, without exceptions as is, provided, that the paragraph 15.2.1 and figures 18 and 19 are added to the standard, as below. Rationale: In this company's 50 years of experience, performing 100 Million plus annual moves with its conveyors, the above additions to the standard will enable it to continue serving its customers with guarantied clean, high flow rate, long distance conveyors. This follows the physical necessities of avoiding conveyor rail transport on a shared carrier bottom surface (as have learned with the 300 mm FOUP), minimizing conveyor and carrier contacts, and the necessities of safety at high acceleration and speed of the carrier. The conveyor rail designs as included in the existing proposed standard, may be adequate for low speed, short distance moves of the carrier, in and in vicinity of process tool sets with handling means, and thus we confirm their acceptance. 15.2.1 Conveyor Rail Surface Dimensions – For Clean transport applications and applications exceeding intra tool move dimensions the Conveyor rail as described in 15.2 is inadequate due to its inherent tendency for contaminant transfer (unprotected transport surface = bottom stacking surface), and its inadequate guiding edge height (jumping the</doc.6618>						
		track due to mass and velocity of movement). Consequently to the very state of the v	the conveyor rail defined by x1,					
TFi	nput (optional)							
	Withdrawal (check one)	No Negative withdrawal made by Voter. X Withdrawal document received by Standards staff on	GO TO "Related" subsection GO TO "Final" subsection					
Relat ed	Motion and Reason	'Related' is mutually agreed upon. (Needs no motion.)	→ (A) GO TO "Persuasive" subsection					
elat ed	(check one)	Negative is not related. (Needs ≥2/3 votes to pass.)						

					Reason	XXXX	XX					
		otion 2 nd b		Nam	ne (Company)/Name (C	ompar	ny)					
	Dis	scus	sion									
				XX Y	XX Y -XX N ; Motion passed/failed.							
			f Vote		[Negative is not related	GO TO "Persuasive" subsection						
	(01)	COR	one,		2/3 ≤ [Negative is not re	elated.]			GO TO "Final" subsection → (B)		
					Negative is related and	persu	asive. (Needs >1/	/3 vo	tes t	o pass.)		
	F	tion Reaso eck			Negative is related and	not pe	ersuasive. (Needs	≥2/3	vot	es to pass.)		
	,		Í		Reason	XXXX	(
P		otion 2 nd b		Nam	ne (Company)/Name (C	ompar	ny)					
ersı	Dis	scus	sion									
Persuasive				XX Y	Y-XX N; Motion passed	/failed.						
ive	Pos	ult of	f Vote		[Negative is related and persuasive.] > 1/3	t	Is a technical change recommended?		Y	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	n → (C)			
					90% ≤ [Negative is rela and not persuasive.]	ted	GO TO "Not Significant Finding Option" subsection					
Α	Techi Origin fields	nal s	Chang ection/	je Re para	ecommendations agraph number and at	least o	one full sentence	are i	requ	ired in "FROM" and "TO"		
ddres		F	ROM:	Sect	ion/Paragraph 1.1							
s by -		-	TO: Se	ction	/Paragraph 1.1							
Гесһ	Tec											
nnical	Technical	,	Justific	atio	n (If necessary)							
Chang	l Changes	F	ROM:	Sect	ion/Paragraph XXX							
Address by Technical Change Option	jes –	2	TO: Se	ction	/Paragraph xxx							
nc			Justific	atio	n (If necessary)							

	Motic	on			Neg	ative is a	addressed by the technical change(s).		
	Motic	on by/2 nd by	y		Nam	ne (Comp	pany)/Name (Company)		
	Discu	ussion							
					XX Y	Y-XX N:	Motion passed/failed.		
	Result of Vote (check one)						egative is addressed by the technical	GO TO "Incorporation of the Technical Change" subsection	
		•					e is not addressed by the technical s).] < 2/3	GO TO "Final" subsection → (E)	
	_	Motion			To ii	ncorpora	ate the technical change(s).		
	nco Tec	Motion by/	2 nd b	у	Nam	ne (Comp	pany)/Name (Company)		
	rpora	Discussion	1						
	ation				XX Y	Y-XX N; I	Motion passed/failed.		
	Incorporation of the Technical Change	Result o				90% ≤ [/	Agree to incorporate.]	GO TO "Final" subsection → (F)	
	he e	(check	one)			[Disagre	ee to incorporate.]>10%	GO TO "Final" subsection → (E)	
Z							C Chapter finds a Negative not persing on the action". (<i>Regulations</i> ¶ 9.6		
ot Sigi					mutu ificar		eed upon to term the Negative "not	GO TO "Final" subsection → (D)	
Not Significant Option	significant It is			mutu nifica		eed upon to term the Negative	GO TO "Final" subsection → (C)		
t Finding	(33)	,		Whe	hether or not the Negative is "not significant" is decided by a vote.				
din	I	Motion	The	Neg	gative is "not significant".				
9		otion by/ 2 nd by	Nam	Name (Company)/Name (Company)					
		-		XX	Y-XX	(N; Motio	on passed with simple majority	GO TO "Final" subsection → (D)	
		Vote		XX '	Y-XX	(N; Motio	on failed with simple majority	GO TO "Final" subsection → (C)	
			Χ		(/	A)	Withdrawn (counted under h in disp	oosition)	
					(1	В)	Not related (counted under i in disp	osition)	
	(6	check if			((C)	Related and not persuasive (significa	nt)	
Final		plicable)			(l	D)	Not significant (counted under j in d	isposition)	
<u>a</u>						E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS	
	(check if				(F)	Addressed by technical change (cou	nted under k disposition)	
	•	cneck if plicable)		Con	nmer	nt genera	nted. See Section V-(ii) Comment # X	•	

This table is needed for each Negative.

Disposition of Voting Interest Reject 1

Check only when the Document has not been failed.

1	Original	riginal number (#) of Negatives (g)								
1	Number	of N	egatives withdrawn		(h)					
0	Number	Number of Negatives found not related (i)								
0	Number	Number of Negatives found not significant (j)								
0			egatives addressed by technic t significant)	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	ne denominator of § VI. Check						
Reject without a Negative Not Valid										

This table is needed for each Voting Interest Reject.

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* ¶ 9.6.1.4.5.2)

IV. Other Technical Issues

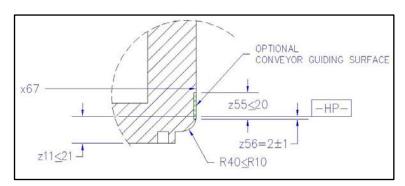
Note: TC Chapter may choose to address a technical issue that is not part of a Negative received on a Letter Ballot (i.e., a Comment or a reason not addressed by a Vote response) by handling it as a Negative and finding it related and technically persuasive. The TC Chapter may then fail the Document or address such technical issue by using the procedure defined in *Regulations* § 9.6.1.4.3 to make a technical change to the Document. (*Regulations* ¶ 9.6.1.4.2.5)

Issue 1

Т	Origin		TTC Chapter to choose hdrawn Negative from George W Horn/Middlesex Industries SA						
ech	Referenced	*TF	/TC Chapter to fill in including text in the ballot as appr	opriate.					
Technical	Section/ Paragraph	Fig	Figure A1-3 and Table A1-1						
Issue			*Original Comment text, if applicable, and problem statement, including justification and suggestion, should be copied.						
е	Reason	for I	The conveyor rail designs as included in the existing proposed standard, may be adequate for low speed, short distance moves of the carrier, in and in vicinity of process tool sets with handling means.						
Hand	dle technical issu	ıe ide	entified above as a Negative.						
Re	Motion and	Х	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection					
Related	Reason		Negative is not related and assigned to TF. (Needs ≥2/3 votes to pass.)						
ed	(check one)		Negative is not related and placed on agenda of current T business. (Needs ≥2/3 votes to pass.)	C Chapter meeting as new					

			Reason									
	Motion by/ 2nd by	Nai	me (Company)/Name (C	ompany	')							
	Discussion											
		XX	XX Y-XX N; Motion passed/failed.									
	Result of Vote		[Negative is not related		GO TO "Persuasive" subsection							
	(check one)		2/3 ≤ [Negative is not re					GO TO "Final"				
			2/3 ≤ [Negative is not current TC Chapter me			genda	a of	subsection → (B)				
		Х	X Negative is related and persuasive. (Needs >1/3 votes to pass.)									
	Motion and Reason (check one)		Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)									
_	· · ·		Reason		xxxx							
Persuasive	Motion by/ 2 nd by	Sho	oji Komatsu (Acteon) / Ts	sukasa	Fukunaga (Shin-Ets	u Po	lyme	r)				
nsi\	Discussion	nor	ne									
/e		6 Y	-0 N; Motion passed									
	Result of Vote	X	[Negative is related and persuasive.] > 1/3	d	Is a technical change	Х	Υ	GO TO "Address by Technical Change Option" subsection				
	(check one)		[Negative is related and persuasive.] < 2/3		recommended? (check one)		N	GO TO "Final" subsection → (E)				
2/3 ≤ [Negative is related and not persuasive.] < 90% GO TO "Final" subsection → (C)								→ (C)				
Add			ecommendations agraph number and at l	least oi	ne full sentence are	e req	uired	d in "FROM" and "TO"				

FROM: Section/Paragraph Figure A1-3 and Table A1-1



Symbol Used	Figure	Value Specified	Datum Measured From	Feature Measured To			
r40	A1-3 ≤10 z10		z10	Optional conveyor guiding surface			
z55	A1-3	-3 ≤20 HP		Top of optional conveyor guiding surface			
z56	A1-3	2±1	HP	Bottom of optional conveyor guiding surface			

TO: Section/Paragraph Figure A1-3 and Table A1-1

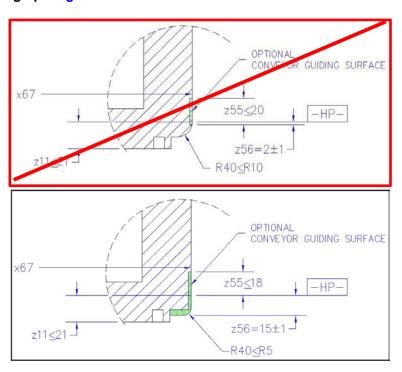
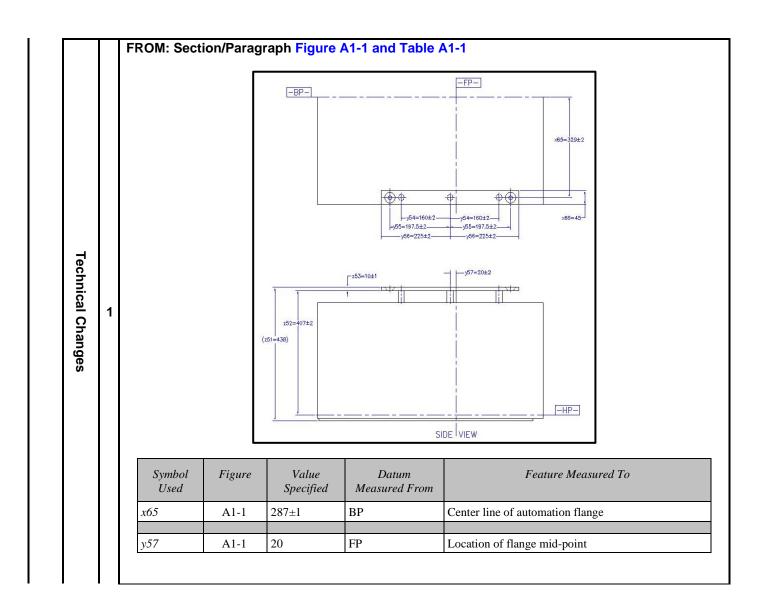


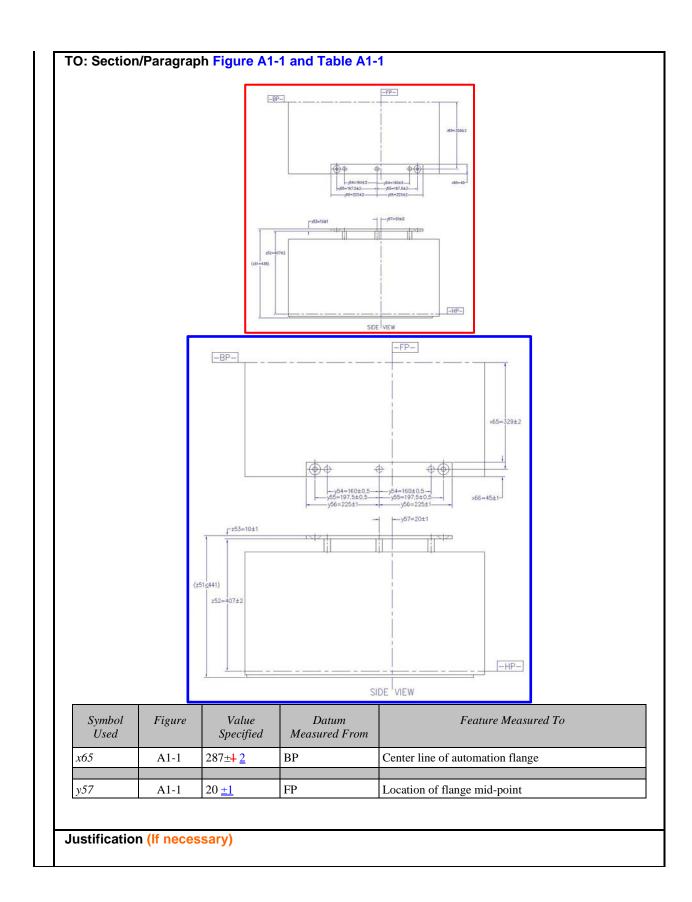
Figure	Value Specified	Datum Measured From	Feature Measured To		
A1-3 ≤ 10 <u>5</u> z		z10	Optional conveyor guiding surface		
A1-3 ≤ 20 <u>18</u>		HP	Top of optional conveyor guiding surface		
.56 A1-3 <u>2±1</u> <u>15±1</u>		HP	Bottom of optional conveyor guiding surface		
	A1-3	Specified A1-3 ≤10 5 A1-3 ≤20 18	Specified Measured From A1-3 ≤10 5 z10 A1-3 ≤20 18 HP		

			Justifi	catio	on (If	nec	cessary)					
			FROM:	ROM: Section/Paragraph XXX								
	TO: Section/Paragraph xxx											
			Justifi	Justification (If necessary)								
	Moti	on				Ne	egative is a	ddressed by the technical change(s).				
	Moti	on I	by/2 nd b	У		Sh	noji Komats	su (Acteon) / Tsukasa Fukunaga (Shin-E	Etsu Polymer)			
	Disc	uss	ion			none						
						6 Y-0 N; Motion passed						
			sult of V heck on			X	2/3 ≤ [Ne change(s)	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)			
	_	М	otion			To incorporate the technical change(s).						
	Incorporation of Technical Chan	Mo	otion by	/2 nd	by	Shoji Komatsu (Acteon) / Tsukasa Fukunaga (Shin-Etsu Polymer)						
	por.	Di	scussio	n		none						
	atio al C					6	Y-0 N; Moti	on passed	T			
	ncorporation of th Technical Change	ı	Result o	_		X	90% ≤ [Ao	gree to incorporate.]	GO TO "Final" subsection → (F)			
	the		(check	one)		[Disagree	to incorporate.] >10%	GO TO "Final" subsection → (E)			
							(B)	Not related				
		(check one)				(C)		Related and not persuasive				
	(ch						(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS			
۱ ٔ		X					(F)	Addressed by technical change				
			ck if able)		Co	mm	ent genera	ted. See Section V-(ii) Comment # X.				

Issue 2

Те	Origin		TTC Chapter to choose eason not addressed by		response							
chr	Referenced	*TF	/TC Chapter to fill in in	cluding	g text in the ballot a	as ap	pro	oriate.				
nical	Section/ Paragraph	Tab	Table 1, Figure A1-1 and Table A1-1									
Technical Issue	Reason	*Original Comment text, if applicable, and problem statement, including justification and suggestion, should be copied.										
	1100011	I fou	I found some mistakes regarding y70 in Table 1 and tolerances in Appendix 1.									
Han	Handle technical issue identified above as a Negative.											
		X	'Related' is mutually ag	GO TO "Persuasive" subsection								
	Motion and		Negative is not related	and as	signed to TF. (Need	s ≥2/	/3 vo	tes to pass.)				
	Reason (check one)			and pla	ced on agenda of c			Chapter meeting as new				
			Reason									
Related	Motion by/ 2nd by	Nar	me (Company)/Name (C	ompany	')							
ted	Discussion											
		XX Y-XX N; Motion passed/failed.										
			- 70.11, monon passos.	GO TO "Persuasive"								
	Result of Vote		[Negative is not related	subsection								
	(check one)		2/3 ≤ [Negative is not re	GO TO "Final"								
			2/3 ≤ [Negative is not current TC Chapter me	subsection → (B)								
		X	Negative is related and	l persua	asive. (Needs >1/3 v	otes	to p	pass.)				
	Motion and Reason (check one)		Negative is related and	otes	to pass.)							
	(0.000.000)		Reason									
Persuasive	Motion by/ 2 nd by	Sho	oji Komatsu (Acteon) / Ts	sukasa	Fukunaga (Shin-Ets	u Po	lyme	r)				
asiv	Discussion	non	e									
\e		6 Y	-0 N; Motion passed									
			[Negative is related and	d	Is a technical			GO TO "Address by				
	Decult of Vote	X	persuasive.] > 1/3	change	Χ	Υ	Technical Change					
	Result of Vote (check one)		[Negative is related and	d not	recommended? (check one)		N	Option" subsection GO TO "Final"				
			persuasive.] < 2/3 2/3 ≤ [Negative is relate		GO TO "Final" su	iheor	ction	subsection → (E)				
			and not persuasive.] <	90%	GO TO FINAL SU	เมอซิโ	Juon	7 (0)				
Add			ecommendations agraph number and at	least oi	ne full sentence are	e req	uire	d in "FROM" and "TO"				





			FROM:	DM: Section/Paragraph Table1								
			Symbo Used			erenced Val		ue Specified	Datum Measured From		Feature Measured To	
			y70 27,			29	351.5		FP		cally correct panel or process ar end position	
		2										
			TO: Section/Pa y70 27,		n/Par 27, 2		351.5		FP		cally correct panel or process ar end position	
							357.5			Carrier re	ai enu position	
			Justifi	catio	on (If	ne	cessary)					
	Moti	on				Ne	egative is a	ddressed by	the technical chang	e(s).		
	Moti	on b	y/2 nd b	У		Shoji Komatsu (Acteon) / Tsukasa Fukunaga (Shin-Etsu Polymer)						
	Disc	ussi	ion			none						
						6	Y- 0N; Moti	on passed				
			ult of V			X	2/3 ≤ [Neg change(s)	gative is ado	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	To incorporate the technical change(s).					
	ncoi Tec	Мо	tion by	/2 nd	by	Shoji Komatsu (Acteon) / Tsukasa Fukunaga (Shin-Etsu Polymer)						
	rpor: hnic	Dis	scussio	n		nc	ne					
	atio al C					6	Y- 0 N; Mot	ion passed				
	Incorporation of the Technical Change	F	Result o	_		X	90% ≤ [Aç	gree to inco	rporate.]		GO TO "Final" subsection → (F)	
	าe e	(check one)					[Disagree	to incorpor	ate.] >10%		GO TO "Final" subsection → (E)	
							(B)	Not related				
	(oh	ahaak ana)					(C)		nd not persuasive		1	
Final	(cn	CCK	k one)				(E)	addressed	nd persuasive and no I by technical change		DOCUMENT FAILS	
_	•	(check if					(F)		tion V-(ii) Comment			
	ap	plica	able)		001	mment generated. See Section V-(ii) Comment # X.						

V. Comments

V- (i) Voters' Comments
Commenter 1 (Larry Hartsough/UA Associates) - Comment 1

		\		tisough/oA Associates) - Comment 1							
Ç.	*TF	T/TC Chapte	er to	fill in section/paragraph #, if necessary.							
Comment	1. req	uired; see f apter so des	PM3. sires.	Documents and Standards section and the Terminology section are not 8.3.2. They could be omitted from the Subordinate Specifications if the TC Unless, of course, there are refs/terms used there that are not in the Primary. onsidered a Type 1 editorial change, I think.							
	Th	e TC Chapt	er aç	greed to do one of the following actions.							
	*N	*No motion is required in this step.									
Þ	Already addressed by Commenter # Comment #										
Action		No further	actio	on was taken by the TC Chapter.							
ľ		Refer to the	ne TF	for more consideration.							
		New Busin	ness								
	Χ	Editorial C	hanç								
		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		Case 2: Voted in this section:							
		(check one)	Х	Original section number and at least one full sentence are required in "FROM" and "TO" fields.							
		FROM: S	ectio	on/Paragraph 3, 3.1 and NOTE 1							
		3. Referei	nced	Standards and Documents							
		3.1 SEMI Standards and Safety Guidelines									
		SEMI 3D20 — Specification for Panel Characteristics for Panel Level Packaging (PLP) Applications									
		NOTE 1: The SEMI Physical Interfaces & Carriers Global Technical Committee is									
		developing a Specification for Panel FOUP and Panel FOUP Load Ports intended to									
Edito				njunction with this Document. Paragraph 3, 3.1 and NOTE 1							
	1			Standards and Documents							
rial Changes				ards and Safety Guidelines							
ano				·							
PS			SEMI 3D20 — Specification for Panel Characteristics for Panel Level Packaging (PLP) Applications NOTE 1: The SEMI Physical Interfaces & Carriers Global Technical Committee is								
				Specification for Panel FOUP and Panel FOUP Load Ports intended to							
				njunction with this Document.							
		Justifica	tion	(If necessary)							
	2	FROM: S	ectio	on/Paragraph							

	TO: Section/Paragraph								
		Justificatio	on (If necessary)						
M	otion	l	To approve above editorial change(s)						
M	otion	by/2 nd by	Shoji Komatsu (Acteon) / Tsukasa Fukunaga (Shin-Etsu Polymer)						
D	iscus	sion	There was a discussion if it was OK to delete Terminology section by the editorial change during Ballot Review. The TC Chapter chose safer option.						
V	ote		6 Y-0 N; Motion passed						

This table is needed for each Comment accompanied a Vote

V-(ii) Comments Created by Handling Negative None

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

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	=	38	1	38] = [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.

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

X

Note: See Regulations § 15 for further information.

	X	Th is s	is is not a still technica	Safety Document , when all safety-related information is removed, the Document ally sound and complete. (<i>Regulations</i> ¶ 8.7.1)							
Motion		This is a Safety Document , when all safety-related information is removed, the Document is not technically sound and complete. (<i>Regulations</i> ¶ 8.7.2)									
				ecklist (<i>Regulations</i> ¶ 15.3) is complete and has been included with the Document the balloting process. (<i>Regulations</i> ¶ 15.1.2)							
ı	Motion by/2 nd by			Shoji Komatsu (Acteon) / Tsukasa Fukunaga (Shin-Etsu Polymer)							
	D	iscu	ıssion	None							
		Vo	ote	6 Y-0 N; Motion passed							

IX. Intellectual Property (IP) Check

Note: This Letter Ballot may cover all or part of a Standard or Safety Guideline. Regardless of the coverage, this IP check applies to the entire Standard or Safety Guideline*. See *Regulations* § 16 for further information.

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

IX(a) Patented Technologies subsection

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

	T) TOTAL HOLLINGS OF T	atorito a	connologico to be acait with	
# Fill	(I) Known Patented Technology that might be relevant to	# Fill	technologies first became known to the TC Chapter on or after the day	Postpone assessment of such patented technologies to be performed at the next scheduled TC Chapter meeting.
num	. •	# Fill	(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		YES (It is a PMPT)	Is the us	e of this		YES PROCEED to assess NEXT one, or if this is the last one, GO TO IX(a3)		
technology #1 found to be "might be material" to the Standard/Safety Guideline?				justified?		NO	The Document is failed and returned to the TF	
		NO	No furth	er action is needed for patented technology #1			d 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	LOA Status of PMPT #1											
		YES		PROCEED to check NEXT one, or if this is the last one, GO TO IX(b)								
Has an LOA for this patented technology		NO	JM		Ask ISC for sp	ecial permission to publish.						
been received from every owner?			MOTION		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)						
			Mo	tion	by/ 2 nd by	Name (Company)/Name (Company)						
				cuss	sion	XXXX						
			Vot	е		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	(o) Known copyrighted items that are used or reproduced to the	o > 0 There is at least one known copy righted items that might be relevant to the Standard/Safety Guideline	GO TO IX (b2)
number	Standard/Safety Guideline	o = 0 There is no disclosed copyrighted item	GO TO IX (c)

IX(b2) Assessment of disclosed copyrighted items

Disclosed copyrighted item (Brief description of its use	ne Docume	nt):			
Is disclosed copyrighted	YES	Is the use/reproduction of		YES	PROCEED to assess NEXT one, or if this is the last one, GO TO IX(b3)
item #1 used or reproduced in the Standard/Safety Guideline?		this copyrighted item technically justified?		NO	The Document is failed and returned to the TF
	NO	No further action is nee	ded f	or copyrig	hted 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					ED to assess NEXT one, or the last one, GO TO IX(c)					
from its owner ?.		NO	Μ		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)
		Mot	ion	by/ 2 nd by	Name (Company)/Name (Company)
		Disc	cuss	sion	XXXX
		Vot	е		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

			cument passed TC Chapter review as balloted and will be forwarded to the ISC A&R						
		SC for pro	edural review.						
M			nument passed TC Chapter review with editorial changes and will be forwarded to to SC for procedural review.						
Motion	X	editorial ch	Document passed TC Chapter review with technical changes and with or without brial changes and will be forwarded to the ISC A&R SC for procedural review. A fication 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			Shoji Komatsu (Acteon) / Tsukasa Fukunaga (Shin-Etsu Polymer)						
Discussion none		ussion	none						
Vote		ote	6 Y -0 N						
Final Action		Action	X Motion passed						
		ACTION	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.