Record of Line-item Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: Japan Global Technical Committee: Information & Control TC Chapter Cochairs: Takayuki Nishimura/ SCREEN Semiconductor Solutions, Mitsuhiro Matsuda/ Hitachi Kokusai Electric Standards staff: Mizue Iwamura (Ms.)

	Scheduled in Background Statement	Actual
Date	4/26/2018	4/26/2018
Location	SEMI Japan, Tokyo, Japan	SEMI Japan, Tokyo, Japan

Document Information

I. Document Number, Title, Lists of Line Items

Doc 6319	ument Number	Document Title LINE ITEM REVISION TO: 'SEMI E87-1017: SPECIFICATION FOR CARRIER MANAGEMENT (CMS)
	Line Item 1	Line Item Title Add 'SEMI E171 Specification for Predictive Carrier Logistics (PCL)' to the 'Related Documents' section.
List of		
List of Line Items		
ems		

Line Item 1 Adjudication

II. Tally (Standards staff to fill in)

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

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* \P 9.7.1.1)

Voting Interest:	Returned Votes		Distribution		Return Rate		
Letter Ballot	69	÷	109	=	63.3%	>=60%	
Intercommittee Ballot	25						
Voting Interest Reject(s)	2]	Total	Total Voters with Rejects			
Voting Interest Accept(s)	42]					

Voting Tally (with example values):

III. Rejects Voting Interest Reject 1 (Voting Interest Name: Cimetrix Incorporated)

Voting Interest Reject 1- Voter Reject 1 (Voter: Brian Rubow, Cimetrix Incorporated)

Negative 1 of Voting Interest Reject 1- Voter Reject 1

Negative	Referenced Section/ Paragraph	*TF/	*TF/TC Chapter to fill in including text in the ballot if necessary.								
ive	Negative Text	egative Text *Original complete Negative text (e.g., issue, justification, suggestion) should b copied. There is no compelling reason to reference E171 from E87.									
TF	input (optional)	No s	No supplemental statements from the voter.								
	Withdrawal	x	No Negative withdrawal made by Voter.	GO TO "Related" subsection							
	(check one)		Withdrawal document received by Standards staff on MM/DD/YYYY.	GO TO "Final" subsection \rightarrow (A)							
Relat ed	Motion and Reason		'Related' is mutually agreed upon. (Needs no Motion.)	GO TO "Persuasive" subsection							
at 1	(check one)		Negative is not related. (Needs ≥2/3 votes to pass.)								

					Reason		xxxx					
	Mot	tion b	by/2nd y	Nam	ne (Company)	/Name (C	ompany)					
	Di	iscu	ssion									
				XX-X	XX; Motion pa	assed/faile	d.			-		
			of Vote (one)		[Negative is r	not related	.] <2/3			GO TO "Persuasive" subsection		
	(0.		,		2/3≤ [Negativ	e is not re	lated.]			GO TO "Final" subsection → (<mark>B)</mark>		
					Negative is re	elated and	persuasive. (I	Needs >1/3 votes	s to	pass.)		
	M	otio	n and	x	Negative is re	elated and	not persuasiv	e. <mark>(Needs ≥2/3</mark> v	otes	to pass.)		
P		Rea			Firstly, the section in the ballot is r but 'Related Documents'. Secondly, SEMI E87 addresses pre in the section 18.3, and SEMI E method to get predictive inform prediction based carrier transfer. It i a relation.					ediction based carrier transfer 171 provides the extended nation from equipment for		
Persuasive	Mot	tion b	by/2nd y									
asive	Di	Discussion Hideaki Ogihara (Naigai TEC) stated that late coming documents shall not related document section.								ents shall not be included in		
				9-1; Motion passed.								
					[Negative is related and persuasive.] Is a Technical >1/3 Recommended					GO TO "Address by Technical Change Option" subsection		
			of Vote c one)		persuasive.1	d and not	(Y/N)		GO TO "Final" subsection → (E)			
					2/3≤ [Negative is related and not persuasive.] <90%							
				x						ant Finding Option"		
Address by Technical Change Option		: Or	iginal se Ids.	ectio	ecommended n/paragraph	number a			are i	required in "FROM" and		
by T		Γ	FROM:	Sect	ion/Paragrap	h XXX						
echniu	Tec	1	TO: Se	ction	/Paragraph x	xx						
cal Ch	hnica		Justific	atio	n (If necessa	ry)						
ange O	Technical Change		FROM:	Sect	ion/Paragrap	h XXX						
ption	уe	2	TO: Se	ction	/Paragraph x	xx						
		I										

		Justification (If necessary)											
	Motio	n			Neg	ative is a	ddressed by the Technical Change.						
	Motio	n by/2nd b	у		Name (Company)/Name (Company)								
	Discu	ssion											
					XX-X	XX-XX; Motion passed/failed.							
	Resu	It of Vote one)	(ch	eck		2/3≤ [Negative is addressed by the rechnical		GO TO "Incorporation of the Technical Change" subsection					
								GO TO "Final" subsection → (E)					
		Motion			To incorporate the Technical Change.								
	lnco Tec	Motion by/		by	Nam	ne (Comp	pany)/Name (Company)						
	rpor												
	atior al C				XX-X	XX; Motic	on passed/failed.						
	Incorporation of the Technical Change	Result of Vote (check one)				90% ≤ [A	Agree to incorporate.]	GO TO "Final" subsection → (F)					
	e)		[Disagre	e to incorporate.]>10%	GO TO "Final" subsection → (E)					
							TC Chapter finds a Negative not persuing on the action". (<i>Regulations</i> ¶ 9.6.4.						
2	Us				s mu iificai		greed upon to term the Negative "no	t GO TO "Final" subsection \rightarrow (D)					
Not Cizzificant Einding Ontion	sig findi	nificant ng option" eck one)	ficant option" It is		mutı	ally agre	ed upon to term the Negative "significant"	GO TO "Final" subsection					
!	•			Whe	ether or not the Negative is "not significant" is decided by a vote.								
		lotion	The	Neg	ative	e is "not s	ignificant".						
	Moti	on by/2nd by	Nam	ne (C	Comp	any)/Nar	ne (Company)						
		Vote		XX-	XX; I	Motion pa	assed with simple majority	GO TO "Final" subsection → (D)					
		VOIC		XX-	XX; I	Motion <mark>fa</mark>	iled with simple majority	GO TO "Final" subsection → (C)					
					(4	A)	withdrawn (counted under h in disposition	on)					
					(B)	not related (counted under i in disposition	on)					
,		heck if			(C)	related and not persuasive (significant)						
!	ар	plicable)	Х		(D)	not significant (counted under j in dispos	sition)					
-					(E)	related and persuasive and not addressed by Technical Change	DOCUMENT FAILS					
					(F)	addressed by Technical Change (count	ed under k disposition)					
		heck if blicable)		Con	nmer	nt genera	ted. See Section V-(ii) Comment # X.						

Disposition of Voting Interest Reject 1

1	Original numbe	r of N	legatives		(g)					
0	# of Negatives	withd	rawn		(h)					
0	# of Negatives f	ound		(i)						
1	# of Negatives f	# of Negatives found not significant (j)								
0	# of Negatives a not significant)	addre	ange (Negative becomes	(k)						
			g - (h + i + j + k) = 0		and is not included in the oproval Conditions Check					
	Final		g - (h + i + j + k) >0	Reject is included in the denominator of § VII. <i>Approval Conditions Check</i>						
			Reject without a Negative	Not Valid						

Note: If all of the Negatives included with a Reject Vote are withdrawn, determined to be not related, or determined to be not significant, the Reject Vote is not valid. (*Regulations* ¶ 9.4.3.3) Note: A Negative addressed by a technical change is automatically considered to be not significant. (*Regulations* ¶ 9.6.4.4.2)

Voting Interest Reject 2 (Voting Interest Name: Tokyo Electron) Voting Interest Reject 2- Voter Reject 1 (Voter: Im Byoung Min, Tokyo Electron Korea Limited)

Negative 1 of Voting Interest Reject 2- Voter Reject 1

	Referenced Section/ Paragraph	*TF/	TF/TC Chapter to fill in including text in the ballot if necessary.									
Negative	Negative Text	copi The Stan logis Whe used If E1	ginal complete Negative text (e.g., issue, justification, sed. SNARF of PCL(5486) included as folowing sentence in Carrier Unload Prediction" has already been discussed dards, however it models carrier and does not model of stic point of view.' en PCL was proposed, PCL could avoid from complicated d above sentence. 71(PCL) will be realted document of the E87, the user at is relationship between E87 and E171(PCL) without 4	a Rationale section. d as #4946 in SEMI equipment from carrier tion with 4946 proposal by will be confued.								
TFi	input (optional)	No supplemental statements from the voter.										
	Withdrawal (check one)		No Negative withdrawal made by Voter. Withdrawal document received by Standards staff on MM/DD/YYYY.	GO TO "Related" subsection GO TO "Final" subsection → (A)								
Relat ed	Motion and Reason (check one)	×	GO TO "Persuas									

					Reason	xxxx					
	Mot	ion l by	by/2nd /	Nam	ne (Company)/Name (Co	ompany)					
	Di	scus	sion								
				XX-X	X; Motion passed/faile	d.					
			of Vote one)		[Negative is not related	GO TO "Persuasive" subsection					
	(0)		one)		2/3≤ [Negative is not re	GO TO "Final" subsection → (B)					
					Negative is related and	persuasive. (I	Needs >1/3 votes	to p	bass.)		
	Мс	Motion and			Negative is related and	-	· ·		to pass.)		
Pe	Reason (check one)				No technical failure is pointed out.SEMI E171 is an already existing#4946 is a draft neither approved byReasonSEMI E87 addresses prediction basection 18.3, and SEMI E171 providget predictive information from equcarrier transfer. It is crystal clear that				/ A&R nor published. ased carrier transfer in the des the extended method to ipment for prediction based		
Persuasive	Motion by/2nd by Masaya Nagata (Tokyo Electron) / Mitsuhiro Matsuda (Hitachi k										
	Di	scus	ssion	n None.							
				14-0	14-0; Motion passed.						
	Bac		of Vote		[Negative is related and >1/3		Recommended	Y	GO TO "Address by Technical Change Option" subsection		
			one)		[Negative is related persuasive.] <2/3		(Y/N)	Ν	GO TO "Final" subsection → (E)		
			-		2/3≤ [Negative is rela persuasive.] <90%	ated and not	GO TO "Final" s	ubs	ection \rightarrow (C)		
				Х	90% ≤ [Negative is rela persuasive.]	ted and not	GO TO "Not Significant Finding Option" subsection				
	Tech	nica	l Chang		commended by the TI	-	Cubcoolion				
Address by Technical Change Option	Note "TO"			ectio	n/paragraph number a	nd at least or	ne full sentence a	are r	equired in "FROM" and		
by T			FROM:	Secti	ion/Paragraph XXX						
echni	Tec	1	TO: Se	ction	/Paragraph xxx						
cal Ch	hnica		Justific	atior	n (If necessary)						
ange C	Technical Change		FROM:	Secti	ion/Paragraph XXX						
ption	ge	2	TO: See	ction	/Paragraph xxx						

		Justific	atio	n <mark>(lf</mark>	nece	essary)						
	Motic	'n			Neg	ative is a	ddressed by	the Technical C	hange.			
	Motic	n by/2nd b	у		Name (Company)/Name (Company)							
	Discu	ssion										
					XX-	XX; Motio	on passed/fa	iled.				
	Resu	It of Vote one)	(ch	eck		2/3≤ [Ne Change.		Iressed by the T	echnical	GO TO "Incorporation of the Technical Change" subsection		
		-			[Negative is not addressed by the Technical			GO TO "Final" subsection <mark>→ (E)</mark>				
		Motion			To i	To incorporate the Technical Change.						
	lnco Tec	Motion by/		by	Nan	ne (Comp	any)/Name (Company)				
	orpor chnic	Technical Change (check one)										
	atior al C				XX-	XX; Motic	n passed/fai	led.				
	n of the hange	Result o				90% ≤ [Agree to incorporate.]			GO TO "Final" subsection → (F)			
	Ð	(check one)				[Disagre	e to incorpor	ate.]>10%		GO TO "Final" subsection → (E)		
		eater than 90% of the				ons votin	g on the act	tion". (<i>Regulati</i>	ons¶ 9.6.4.4			
Not	Us	e of "Not	Х	lt is sign	s mu nifica	mutually agreed upon to term the Negative "not ficant".			GO TO "Final" subsection \rightarrow (D)			
Not Significant Finding Option	sig findi	nificant ng option" eck one)	cant ption" It is		mutually agreed upon to term the Negative "significant".				GO TO "Final" subsection → (C)			
ut Fin	•	,		Whe	ether or not the Negative is "not significant" is decided by a vote.							
2.22	1	lotion	The	Neg	ative	e is "not s	gnificant".					
Ontio	Moti	on by/2nd by	Nam	ne (C	Comp	any)/Nar	ne (Compan	y)				
		Vote		XX-	XX;	Motion pa	issed with si	mple majority		GO TO "Final" subsection → (D)		
		1010		XX-	XX;	Motion <mark>fa</mark>	led with sim	ple majority		GO TO "Final" subsection → (C)		
					(A)	withdrawn (counted under h	n in dispositio	n)		
					(B)	not related	(counted under	i in dispositio	n)		
п		heck if			(C)	related and	not persuasive	(significant)			
Final	ар	plicable)	Х		(D)	-	int (counted und		ition)		
-					(E)		persuasive and by Technical Ch		DOCUMENT FAILS		
					(F)	addressed	by Technical Ch	ange (counte	d under k disposition)		
	•	heck if blicable)		Con	nmei	nt genera	ted. See Sec	tion V-(ii) Comn	nent # <mark>X</mark> .			

Voting Interest Reject 2- Voter Reject 2 (Voter: Tadashi Mochizuki, Tokyo Electron Limited) Negative 1 of Voting Interest Reject 2- Voter Reject 2

neg											
	Referenced Section/	*TF/	TC Chapter to fill in in	ncluding text in the ballot if neces	ssary.						
Ne	Paragraph										
Negative		сор	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.								
e	Negative Text	SEN Curi	II E87 (CMS). rently, SEMI E87 is re	vise the specifications, contents ferenced by many device makers misunderstandings that require E	and equipment suppliers.						
		read	lers of E87 will be con	nfused.							
TF i	input (optional)										
	Withdrawal	x	No Negative withdraw	GO TO "Related" subsection							
	(check one)		Withdrawal document MM/DD/YYYY.	GO TO "Final" subsection → (A)							
		x		greed upon. (Needs no Motion.)	GO TO "Persuasive" subsection						
	Motion and Reason		Negative is not related	ouscouldin							
	(check one)		Reason	xxxx							
Rel	Motion by/2nd by	Nam	ne (Company)/Name (C	Company)							
Related	Discussion										
		XX-X	XX; Motion passed/fail	ed.							
	Result of Vote (check one)		[Negative is not related	GO TO "Persuasive" subsection							
			2/3≤ [Negative is not r	elated.]	GO TO "Final" subsection → (B)						
			Negative is related and	d persuasive. <mark>(Needs >1/3 votes to</mark>) pass.)						
		x	Negative is related and	d not persuasive. <mark>(Needs ≥2/3 vote</mark>	s to pass.)						
Persuasive	Motion and Reason (check one)		No technical failure is pointed out. As the voter says, this addition does not revise the specification contents, and functions defined in SEMI E87 (CMS). Since t section 'Related Documents' is not a section which revises t specifications, contents, and functions defined in the docume So, this addition is appropriate.The 'Related Documents' section lists documents that a								
	Motion by/2nd by	Mas	aya Nagata (Tokyo Ele	related but not referenced. ectron) / Mitsuhiro Matsuda (Hitachi	Kokusai Electric)						
	Discussion	Non	е.								
		40.0	; Motion passed.								

	(ch Tech	nica Or	iginal se	[N pe 2/3 pe X 90 pe Recc	egativ ersuasi 3≤ [N ersuasi 0% ≤ [N ersuasi	ve.] <2/3 egative is related and not ve.] <90% Vegative is related and not	GO TO "Address by Technical Change Option" subsection GO TO "Final" subsection → (E) section → (C) ant Finding Option"				
				ction/P	aragra	•					
Address by Technical Change Optio	Technical Change	2	FROM: Sec TO: Sec Justific	ction/P	aragra						
hnical Ch	Motic Motic		y/2nd by	y		Negative is addressed by the Technical Change. Name (Company)/Name (Company)					
nange	Discı	ıssi	on								
Option	Resu	ilt o	f Vote one)	(chec		 XX-XX; Motion passed/failed. 2/3≤ [Negative is addressed by the Technical Change.] [Negative is not addressed by the Technical Change.] < 2/3 			GO TO "Incorporation of the Technical Change" subsection GO TO "Final" subsection → (E)		
			tion		To i	ncorporate the Technical C	hange.				
	Inco Tec		tion by/2	-	Nam	ne (Company)/Name (Compa	any)				
	rpora	Dis	cussion	Ì							
	ncorporation of the Technical Change				XX-2	XX; Motion passed/failed.			GO TO "Final" subsection		
	Incorporation of the Technical Change	I	Result of (check			90% ≤ [Agree to incorporate	e.]		→ (F)		
			(onook	ene)		[Disagree to incorporate.]>1	0%		GO TO "Final" subsection → (E)		
Not Significant						I "if the TC Chapter finds a ons voting on the action". (asive by a vote equal to or l.2)		
t cant					is mu gnifica		GO TO "Final" subsection \rightarrow (D)				

	Use of "Not significant finding option"		It is mutually agreed upon to term the Negative "significant". \rightarrow (C)						
	(check one)		Whether or not the Negative is "not significant" is decided by a vote.						
	Motion	The Negative is "not significant".							
	Motion by/2nd by	Name (Company)/Name (Company)							
	Vote		XX-XX; Motion	passed with simple majority	GO TO "Final" subsection \rightarrow (D)				
	vote		XX-XX; Motion	failed with simple majority	GO TO "Final" subsection → (C)				
			(A)	withdrawn (counted under h in disposi	tion)				
			(B) not related (counted under i in dispo		tion)				
_	(check if applicable)		(C)	related and not persuasive (significant)					
Final		Х	(D)	not significant (counted under j in disp	sition)				
<u> </u>			(E)	related and persuasive and not addressed by Technical Change	DOCUMENT FAILS				
			(F)	addressed by Technical Change (cour	nted under k disposition)				
	(check if applicable)		Comment gene	erated. See Section V-(ii) Comment # X.					

Disposition of Voting Interest Reject 2

2	Original number of Negatives (g)							
0	# of Negatives withdrawn (h)							
0	# of Negatives found not related (i)							
2	# of Negatives found not significant (j)							
0	# of Negatives addressed by Technical Change (Negative becomes (k)							
		х	g - (h + i + j + k) = 0		and is not included in the pproval Conditions Check			
	Final		g - (h + i + j + k) >0	Reject is included in the denominator of § VII. Appro- Conditions Check				
			Reject without a Negative	Not Valid				

Note: If all of the Negatives included with a Reject Vote are withdrawn, determined to be not related, or determined to be not significant, the Reject Vote is not valid. (*Regulations* ¶ 9.4.3.3) Note: A Negative addressed by a technical change is automatically considered to be not significant. (*Regulations* ¶ 9.6.4.4.2)

IV. Other Technical Issues

There are no other technical issues on Line Item 1 of #6319.

V. Comments

There are no comments on Line Item 1 of #6319.

V-(ii) Comments Created by handling Negative

There are no Comments Created by handling Negative on Line Item 1 of #6319.

VI. Editorial Changes other than those dealt with in Section V.

There are no Editorial Changes other than those dealt with in Section V on Line Item 1 of #6319.

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)

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	42	/	42	=	100.0%	>=90%

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

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

See § 9.7.2 of the Regulations for further information



Line Item 1 meets the Letter Ballot Approval Conditions for the global technical committee

Line Item 1 meets the Letter Ballot Approval Conditions for the TC Chapter and a Ratification Ballot will be issued to verify Technical Changes

Checks for Entire Document Including All Approved Line Items

VIII. Safety Check

This Safety check applies to the entire Standard or Safety Guideline including all the approved Line Items. See § 15 of the *Regulations* for further information.

N	x	This is not a Safety Document, when all safety-related information is removed, the Document is still technically sound and complete. (<i>Regulations</i> \P 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)						
		Safety Checklist (<i>Regulations</i> ¶ 15.3) is complete and has been included with the Document throughout the balloting process. (<i>Regulations</i> ¶¶ 15.1.2)							
Motion by/2nd by				Masaya Nagata (Tokyo Electron) / Mitsuhiro Matsuda (Hitachi Kokusai Electric)					
Discussion			ussion	None.					
	Vote			15-0; Motion passed					

IX. Intellectual Property (IP) Check

Note: This IP check applies to the entire Standard or Safety Guideline including all the approved Line Items. See § 16 of the *Regulations* for further information.

Х		The TC Chapter meeting chair asked those participating, if they were aware of any potentially material patented technology or copyrighted items* in the Standard or Guideline. (<i>Regulations</i> ¶ 8.8.1)							
	Х		otentially n righted iter		patented technology or reproduction of known.	GO TO SECTION X			
		сору сору	righted iter	ns are l se letter	rented technology or reproduction of known, but a Letter of Assurance (LOA) or for such items has been obtained or napter.	GO TO SECTION X			
	Potentially material patented technology or reproduction of copyrighted items are know use of such materials is technically justified by the TC Chapter, but an LOA or copyrig release letter for some of the item(s) has NOT been obtained or presented to the TC C								
	M		Ask ISC f	or special permission to publish.					
	MOTION		Quit activ	vity.					
	ON		Wait for L	OA for patented technology or release of copyrighted items.					
	Mot	ion by	/2 nd by	Name (Company)/Name (Company)					
	Di	iscus	sion	XXXX					
		Vote	9	XX-XX					
	Final Action				Motion Passed				
					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

ole	X	Line item(s) 1 passed TC Chapter review as balloted and will be forwarded to the A&R for procedura review.						
tion applicable ns)		Line item(s) [X], [X] and [X] passed TC Chapter review with editorial changes and will be forwarded to the A&R for procedural review.						
Motion (Check all app items)		Line item(s) [X], [X] and [X] passed TC Chapter review with Technical Changes and with or without editorial changes and will be forwarded to the A&R SC for procedural review. A Ratification Ball will be issued to verify the Technical Changes.						
(Chec		Line item(s) [X], [X] and [X] failed TC Chapter review and will be returned to the task force for rework.						
		Line item(s) [X], [X] and [X] failed TC Chapter review and work will be discontinued.						
Motion by	y/ 2n	Masaya Nagata (Tokyo Electron) /Hideaki Ogihara (Naigai TEC)						
Discu	ssion	None.						
Vo	te	15-0						
Final A	atio	X Motion passed						
FINA	Actio	Motion failed						

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

		Line item(s) [X], [X] and [X] are approved for publication										
A&R		Line item(s) [X], [X] and [X] are approved pending for acceptance of the Ratification Ballot										
		Line item(s) [X], [X] and [X] are Not approved										
	Reason:											