

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

Region/Locale: [Japan](#)

Global Technical Committee: [Physical Interface & Carriers](#)

TC Chapter Cochairs: [Tsuyoshi Nagashima/ Miraial, Daisuke Sado/ EAGLE INDUSTRY, Yasuhisa Ito/ Murata Machinery](#)

Standards Staff: [Takeaki Hirabara](#)

	Scheduled in Background Statement	Actual
Date	<a href="#">December 18, 2025</a>	<a href="#">December 18, 2025</a>
Location	<a href="#">TFT Building / Official Virtual TC Chapter Meeting</a>	<a href="#">TFT Building / Official Virtual TC Chapter Meeting</a>
Reason for Change of Date and/or Location (if changed)		

Note: See [Regulations ¶ 9.5 Exceptions](#) for allowable reason to change.

## [Document Information](#)

### I. Document Number, Title, Lists of Line Items

	<b>Document Number</b> <a href="#">7402</a>	<b>Document Title</b> <a href="#">LINE ITEM Revision to SEMI E181.1 — Specification for Panel FOUP for 510 to 515 mm Panel Size and 12 Slots, SEMI E181.2 — Specification for Panel FOUP for 510 to 515 mm Panel Size and 6 Slots, SEMI E181.3 — Specification for Panel FOUP for 600 to 600 mm Panel Size and 12 Slots and SEMI E181.4 — Specification for Panel FOUP for 600 to 600 mm Panel Size and 6 Slots</a>
<b>List of Line Items</b>	<b>Line Item 1</b>	<b>Line Item Title</b> <a href="#">Clarification of the requirements specification chapter</a>
	<b>Line Item 2</b>	<b>Line Item Title</b> <a href="#">Correction of figure title error</a>
	<b>Line Item 3</b>	<b>Line Item Title</b> <a href="#">Corrected duplicate numbers and corrected explanation</a>

## Line Item 1 Adjudication

### II. Tally

Standards staff to fill in.

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

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

**Voting Tally (with example values):**

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	51	81	63.0%	≥60%
Intercommittee Ballot	27			
Voting Interest Reject(s)	0	Total Voters with Rejects		0
Voting Interest Accept(s)	53			

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

### III. Rejects

No rejects

### IV. Other Technical Issues

No Technical Issues

### V. Comments

No Comments

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

No Editorial Changes

### 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	=	53	/	53	=	100.0%		≥90%	

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

Note: See Regulations § 9.6.2 for further information.

**Globally Approved (No Ratification Ballot needed):**

Line Item 1 meets the Letter Ballot approval conditions for the global technical committee.

**Need a Ratification Ballot:**

Line Item 1 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

## Line Item 2 Adjudication

## II. Tally

Standards staff to fill in.

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

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

Voting Tally (with example values):

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	51	÷ 81	= 63.0%	≥60%
Intercommittee Ballot	27			
Voting Interest Reject(s)	0	Total Voters with Rejects		0
Voting Interest Accept(s)	52			

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

### III. Rejects

No rejects

### IV. Other Technical Issues

No Technical Issues

### V. Comments

No Comments

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

No Editorial Changes

### VII. Approval Conditions Check

#### VII. - (i). Approval Rate

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

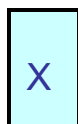
**APPROVAL CONDITION 2:** At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations ¶ 9.6.2.1.3*)

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

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

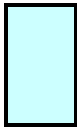
#### VII. – (ii) Approval Level (check one)

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



**Globally Approved (No Ratification Ballot needed):**

Line Item 2 meets the Letter Ballot approval conditions for the global technical committee.



**Need a Ratification Ballot:**

Line Item 2 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

**Line Item 3 Adjudication**

**II. Tally**

Standards staff to fill in.

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

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

Voting Tally (with example values):

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	51	81	63.0%	≥60%
Intercommittee Ballot	27			
Voting Interest Reject(s)	0	Total Voters with Rejects		0
Voting Interest Accept(s)	52			

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

**III. Rejects**

No rejects

**IV. Other Technical Issues**

No Technical Issues

**V. Comments**

No Comments

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

No Editorial Changes

## VII. Approval Conditions Check

### VII. - (i). Approval Rate

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

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

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

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

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

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

**Globally Approved (No Ratification Ballot needed):**

Line Item 3 meets the Letter Ballot approval conditions for the global technical committee.

**Need a Ratification Ballot:**

Line Item 3 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

## Checks for Entire Document Including All Approved Line Items

### VIII. Safety Check

**Note:** 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.

<b>Motion</b>	<b>x</b>	<b>This is not a Safety Document</b> , when all safety-related information is removed, the Document is still technically sound and complete. ( <i>Regulations</i> ¶ 8.7.1)
		<b>This is a Safety Document</b> , when all safety-related information is removed, the Document is not technically sound and complete. ( <i>Regulations</i> ¶ 8.7.2)
		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)
<b>Motion by/2<sup>nd</sup> by</b>		Shoji Komatsu (Acteon NEXT LLC) / Stefan Radloff (Intel)
<b>Discussion</b>		None
<b>Vote</b>		Result: 17-Y 0-N Voting Result: Pass - 100.00%

### 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 including all the approved Line Items\*. See Regulations § 16 for further information.

<b>x</b>	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)			
<b>x</b>	The question is NOT answered in affirmative (No potentially material patented technology or use/reproduction of copyrighted items/trademarks is known.)	<b>GO TO SECTION X.</b>		
	The question is answered in affirmative	Is any of the known IPs a patented technology?	<b>Yes, at least one of them is a patented technology</b>	<b>GO TO IX (a) “Patented Technology” subsection</b>
			<b>No</b>	<b>GO TO IX (b) “Copyright items” subsection</b>

#### IX(a) Patented Technologies subsection

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

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

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

This table is needed for each disclosed patented technology.

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

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

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

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

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

**IX(b2) Assessment of disclosed copyrighted items**

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

*This table is needed for each disclosed copyrighted item.*

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

<b>Copyright release Status of copyrighted item #1</b>					
Has the copyright release been received from its owner ?.		YES	<b>PROCEED to assess NEXT one, or if this is the last one, GO TO IX(c)</b>		
	MOTION	NO		Ask ISC for special permission to publish.	
				Quit activity.	<b>The Document is failed and returned to the TF</b>
				Wait for copyright release letter	<b>PROCEED to check NEXT one, or if this is the last one, GO TO IX(c)</b>
		<b>Motion by/ 2<sup>nd</sup> by</b>		Name (Company)/Name (Company)	
		<b>Discussion</b>		XXXX	
		<b>Vote</b>		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	<b>GO TO IX(d)</b>
				NO	
		NO	<b>GO TO IX(d)</b>		

**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	<b>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.</b>
		NO	<b>GO TO X</b>

## X. Action for This Document

<b>Motion</b> (Check all applicable items)	<input checked="" type="checkbox"/>	Line item(s) 1, 2 and 3 passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
	<input type="checkbox"/>	Line item(s) [1] passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.
	<input type="checkbox"/>	Line item(s) [1] 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.
	<input type="checkbox"/>	Line item(s) [1] failed TC Chapter review and will be returned to the TF for rework.
	<input type="checkbox"/>	Line item(s) [1] failed TC Chapter review and work will be discontinued.
<b>Motion by/ 2nd by</b>	Shoji Komatsu (Acteon NEXT LLC) / Mitsuhiro Matsuda (KOKUSAI ELECTRIC CORPORATION)	
<b>Discussion</b>	None	
<b>Vote</b>	Result: 16-Y 0-N Voting Result: Pass - 100.00%	
<b>Final Action</b>	<input checked="" type="checkbox"/>	Motion passed
	<input type="checkbox"/>	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.**