

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

Region/Locale: **North America**

Global Technical Committee: **Information & Control**

TC Chapter Cochairs: **Brian Rubow (Cimetrix), Albert Fuchigami (PEER Group), James Moyne (AMAT / University of Michigan)**

Standards Staff: **Michelle Sun**

	Scheduled in Background Statement	Actual
Date	5/13/2026	5/13/2026
Location	Albany, NY	Albany, NY
Reason for Change of Date and/or Location (if changed)		

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

## Document Information

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

Document Number		Document Title
7420A		Line Item Revision to SEMI E190.1-1124 – Specification for Common Data for Etch Components
List of Line Items	Line Item 1	Line Item Title Add Level 2 and 3 categories of etch information; and expand Definitions section to cover any new terms introduced in these categories
	Line Item 2	Line Item Title Add Related Information section to explain etch processing theory of operation

## 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 Interest:	Returned Votes		Distribution		Return Rate	
Letter Ballot	77	÷	126	=	61.11%	≥60%
Intercommittee Ballot	32					
Voting Interest Reject(s)	1		Total Voters with Rejects		1	
Voting Interest Accept(s)	64					

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

### III. Rejects

Voting Interest Reject 1 (Voting Interest Name: Agileo Automation)

Voter Reject 1 (Voter: Fahad Golra / Agileo Automation)

Negative 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.				
		Level 3 data tables				
Negative	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.				
		For the Chuck, Exhaust Line, Process Chamber, and Transfer Module Level 2 categories, the proposed Level 3 categories rely exclusively on "Measured" and "Setpoint" identifiers. We recommend explicitly defining the "Measured" and "Setpoint" pairing as a mandatory naming convention for all Level 3 categories within SEMI E190.1. We recommend that the committee elevate this pairing convention to the parent standard, SEMI E190, as a fundamental guideline for Equipment Data Publication (EDP).				
TF input (optional)						
Withdrawal (check one)	<input type="checkbox"/>	No Negative withdrawal made by Voter.		GO TO "Related" subsection		
	<input checked="" type="checkbox"/>	Withdrawal document received by Standards staff on 5/12/2026.		GO TO "Final" subsection → (A)		
Related	Motion and Reason (check one)	<input type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)		GO TO "Persuasive" subsection	
		<input type="checkbox"/>	Negative is not related. (Needs ≥2/3 votes to pass.)			
		Reason	XXXX			
	Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (Company)				
	Discussion					
Result of Vote (check one)	XX Y-XX N; Motion passed/failed.					
	<input type="checkbox"/>	[Negative is not related.] < 2/3			GO TO "Persuasive" subsection	
	<input type="checkbox"/>	2/3 ≤ [Negative is not related.]			GO TO "Final" subsection → (B)	

<b>Persuasive</b>	<b>Motion and Reason (check one)</b>	<input type="checkbox"/>	Negative is related and persuasive. <b>(Needs &gt;1/3 votes to pass.)</b>				
		<input type="checkbox"/>	Negative is related and not persuasive. <b>(Needs ≥2/3 votes to pass.)</b>				
		<input type="checkbox"/>	Reason	XXXX			
	<b>Motion by/ 2<sup>nd</sup> by</b>	Name (Company)/Name (Company)					
	<b>Discussion</b>						
	<b>Result of Vote (check one)</b>	XX Y-XX N; Motion passed/failed.					
		<input type="checkbox"/>	[Negative is related and persuasive.] > 1/3	<b>Is a technical change recommended? (check one)</b>	<input type="checkbox"/>	Y	GO TO “Address by Technical Change Option” subsection
		<input type="checkbox"/>	[Negative is related and not persuasive.] < 2/3		<input type="checkbox"/>	N	GO TO “Final” subsection → (E)
		<input type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO “Final” subsection → (C)			
		<input type="checkbox"/>	90% ≤ [Negative is related and not persuasive.]	GO TO “Not Significant Finding Option” subsection			
<b>Address by Technical Change Option</b>	<b>Technical Change Recommendations</b>						
	Original section/paragraph number and at least one full sentence are required in “FROM” and “TO” fields.						
	1	FROM: Section/Paragraph XXX					
		TO: Section/Paragraph xxx					
		Justification (if necessary)					
	2	FROM: Section/Paragraph XXX					
		TO: Section/Paragraph xxx					
		Justification (if necessary)					
	<b>Motion</b>	Negative is addressed by the technical change(s).					
	<b>Motion by/2<sup>nd</sup> by</b>	Name (Company)/Name (Company)					
<b>Discussion</b>							
<b>Result of Vote (check one)</b>	XX Y-XX N; Motion passed/failed.						
	<input type="checkbox"/>	2/3 ≤ [Negative is addressed by the technical change(s).]				GO TO “Incorporation of the Technical Change” subsection	
	<input type="checkbox"/>	[Negative is not addressed by the technical change(s).] < 2/3				GO TO “Final” subsection → (E)	
Incorporation	<b>Motion</b>	To incorporate the technical change(s).					
	<b>Motion by/2<sup>nd</sup> by</b>	Name (Company)/Name (Company)					

	Discussion		
	Result of Vote (check one)	XX Y-XX N; Motion passed/failed.	
		90% ≤ [Agree to incorporate.]	GO TO “Final” subsection → (F)
		[Disagree to incorporate.] > 10%	GO TO “Final” subsection → (E)
Not Significant Finding Option	This option can be used only “if the TC Chapter finds a Negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action”. (Regulations ¶ 9.6.1.4.5.2)		
	Use of “Not significant finding option” (check one)	It is mutually agreed upon to term the Negative “not significant”.	GO TO “Final” subsection → (D)
		It is mutually agreed upon to term the Negative “significant”.	GO TO “Final” subsection → (C)
		Whether or not the Negative is “not significant” is decided by a vote.	
	Motion	The Negative is “not significant”.	
	Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (Company)	
	Vote	XX Y-XX N; Motion passed with simple majority	GO TO “Final” subsection → (D)
XX Y-XX N; Motion failed with simple majority		GO TO “Final” subsection → (C)	
Final	(check if applicable)	x (A) Withdrawn (counted under h in disposition)	
		(B) Not related (counted under i in disposition)	
		(C) Related and not persuasive (significant)	
		(D) Not significant (counted under j in disposition)	
		(E) Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		(F) Addressed by technical change (counted under k disposition)	
	(check if applicable)	Comment generated. Refer to Section V-(ii) Comment # X.	

### Disposition of Voting Interest Reject 1

Check only when the Document has not been failed.

1	Original number (#) of Negatives	(g)	
1	Number of Negatives withdrawn	(h)	
0	Number of Negatives found not related	(i)	
0	Number of Negatives found not significant	(j)	
0	Number of Negatives addressed by technical change (Negative becomes not significant)	(k)	
Final	x	$g - (h + i + j + k) = 0$	Reject is Not Valid and is not included in the denominator of § VI. Approval Conditions Check
		$g - (h + i + j + k) > 0$	Reject is included in the denominator of § VI. Approval 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* ¶ 9.6.1.4.5.2)

## IV. Other Technical Issues

None

## V. Comments

None

### V- (i) Voters' Comments

None

### V-(ii) Comments Created by Handling Negative

None

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

None

## VII. Approval Conditions Check

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

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

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

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

		Accepts		(Accepts + Valid Rejects)				
Approval Rate	=	64		64	=	100%		≥90%

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

Note: Refer to *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**

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## 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. Refer to § 15 of the *Regulations* for further information.

Motion	x	This is not a <b>Safety Document</b> , when all safety-related information is removed, the Document is still technically sound and complete. ( <i>Regulations</i> ¶ 8.7.1)	
		This is a <b>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)	
Motion by/2 <sup>nd</sup> by		By: Alan Weber / Cimetrix Second: Albert Fuchigami / PEER Group Inc.	
Discussion		None	
Vote		14 Y-0 N; Motion <b>passed</b>	

### 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\*. Refer to *Regulations* § 16 for further information.

x	The TC Chapter meeting chair asked those participating, if they were aware of any patented technology that might be relevant (Refer to <i>Regulations</i> ¶ 16.3.1.1) to the Standard or Safety Guideline; or, any copyrighted items or trademarks that are used/reproduced (refer to <i>Regulations</i> ¶ 16.4.1.2) in the Standard or Safety Guideline. (Also refer to, <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.)	<b>GO TO SECTION X.</b>		
	The question is answered in affirmative	Is any of the known IPs a patented technology?	Yes, at least one of them is a patented technology	<b>GO TO IX (a) "Patented Technology" subsection</b>
			No	<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>#</b> <b>Fill number</b>	(l) Known Patented Technology that might be relevant to	<b>#</b> <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) (refer to 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] 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) [X], [X] and [X] 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) [X], [X] and [X] 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) [X], [X] and [X] failed TC Chapter review and will be returned to the TF for rework.
	<input type="checkbox"/>	Line item(s) [X], [X] and [X] failed TC Chapter review and work will be discontinued.
<b>Motion by/ 2nd by</b>	By: Alan Weber / Cimatrix Second: Albert Fuchigami / PEER Group Inc.	
<b>Discussion</b>	None	
<b>Vote</b>	5 Y-0 N	
<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.**