

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

Region/Locale: [China](#)

Global Technical Committee: [Information & Control](#)

TC Chapter Cochairs: [Xianfeng Ding/ONEWO](#), [Lingzhi Lv/FA Software](#), [Clare Liu/Kxware](#)

Standards Staff: [Sara Ma](#)

	Scheduled in Background Statement	Actual
Date	<a href="#">04/08/2025</a>	<a href="#">04/08/2025</a>
Location	<a href="#">Shanghai, China</a>	<a href="#">Shanghai, China</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="#">7140</a>		<b>Document Title</b> <a href="#">LINE-ITEM REVISIONS TO SEMI E94-0324, SPECIFICATION FOR CONTROL JOB MANAGEMENT AND E94.1-0312 (REAPPROVED 0324), SPECIFICATION FOR SECS-II PROTOCOL FOR CONTROL JOB MANAGEMENT (CJM)</a>
<b>List of Line Items</b>	<b>Line Item 1</b>	<b>Line Item Title</b> <ul style="list-style-type: none"><li><b>Line Item #1:</b><ul style="list-style-type: none"><li>In section 4, added SEMI E90 in reference.</li><li>In Table 1, added definition for new attributes CJProcessedMtrlList, CJUnprocessedMtrlList and CJFailedMtrlList.</li><li>In Table 2, added new attribute data definition CJMtrlState.</li><li>In Table 19, added requirement for Material Process Stata Data.</li><li>In E94.1 Table 25, added SECS-II attribute definitions for CJProcessedMtrlList, CJUnprocessedMtrlList and CJFailedMtrlList.</li></ul></li></ul>

	Line Item 2	Line Item Title XXXXX
	Line Item 3	Line Item Title XXXXX
	Line Item 4	Line Item Title XXXXX
	Line Item 5	Line Item Title XXXXX
	Line Item 6	Line Item Title XXXXX
	Line Item 7	Line Item Title XXXXX
	Line Item 8	Line Item Title XXXXX
	Line Item 9	Line Item Title XXXXX
	Line Item 10	Line Item Title XXXXX

### 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 Vote		Distributio		Return Rate	
Letter Ballot	60	÷	96	=	62.5%	≥60%
Intercommittee Ballot	32					
Voting Interest Reject(s)	2		Total Voters with Rejects		2	
Voting Interest Accept(s)	50					

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

### III. Rejects

Voting Interest Reject 1 (Voting Interest Name: Tokyo Electron)

Voter Reject 1 (Voter: Tadashi Mochizuki, Tokyo Electron)

Negative 1

	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.		
		Line Item# 1-b Table 1		
Negative	Negative Text	<p>*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.</p> <p>About adding Attribute.  MtrlOutSpec coexists as an attribute of ControlJob.  For example, a different carrier or slot may be specified in DestinationMap, and the wafer storage destination may be different. If expressed in PRMtlNameList, only information from the SourceMap side will be available. Is my understanding correct?  I also think that this specification needs to be clarified.  In conclusion, I believe there is no need to add this to E94 because adding it to E40 is enough.</p>		
TF input (optional)				
Withdrawal (check one)		No Negative withdrawal made by Voter.	GO TO "Related" subsection	
	X	Withdrawal document received by Standards staff on 03/21/2025.	GO TO "Final" subsection → (A)	
Related	Motion and Reason (check one)		'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection
			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.		
			[Negative is not related.] < 2/3	GO TO "Persuasive" subsection
		2/3 ≤ [Negative is not related.]	GO TO "Final" subsection → (B)	
Persuasive	Motion and Reason (check one)		Negative is related and persuasive. (Needs >1/3 votes to pass.)	
			Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)	
		Reason	XXXX	

Address by Technical Change Option	Motion by/ 2 <sup>nd</sup> by		Name (Company)/Name (Company)					
	Discussion							
	Result of Vote (check one)		XX Y-XX N; Motion passed/failed.					
				[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)		Y	GO TO "Address by Technical Change Option" subsection
				[Negative is related and not persuasive.] < 2/3			N	GO TO "Final" subsection → (E)
				2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)			
				90% ≤ [Negative is related and not persuasive.]	GO TO "Not Significant Finding Option" subsection			
	Technical Change Recommendations							
	Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.							
	Technical Changes	1	FROM: Section/Paragraph XXX					
			TO: Section/Paragraph XXX					
			Justification (If necessary)					
		2	FROM: Section/Paragraph XXX					
			TO: Section/Paragraph XXX					
			Justification (If necessary)					
Motion		Negative is addressed by the technical change(s).						
Motion by/2 <sup>nd</sup> by		Name (Company)/Name (Company)						
Discussion								
Result of Vote (check one)		XX Y-XX N; Motion passed/failed.						
			2/3 ≤ [Negative is addressed by the technical change(s).]			GO TO "Incorporation of the Technical Change" subsection		
			[Negative is not addressed by the technical change(s).] < 2/3			GO TO "Final" subsection → (E)		
Incorporation of the Technical Change	Motion		To incorporate the technical change(s).					
	Motion by/2 <sup>nd</sup> by		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”. ( <i>Regulations</i> ¶ 9.6.1.4.5.2)		
	Use of “Not significant finding option” (check one)	<input type="checkbox"/>	It is mutually agreed upon to term the Negative “not significant”. GO TO “Final” subsection → (D)
		<input type="checkbox"/>	It is mutually agreed upon to term the Negative “significant”. GO TO “Final” subsection → (C)
		<input type="checkbox"/>	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	<input type="checkbox"/>	XX Y-XX N; Motion passed with simple majority GO TO “Final” subsection → (D)
<input type="checkbox"/>		XX Y-XX N; Motion failed with simple majority GO TO “Final” subsection → (C)	
Final	(check if applicable)	<input checked="" type="checkbox"/> (A)	Withdrawn (counted under h in disposition)
		<input type="checkbox"/> (B)	Not related (counted under i in disposition)
		<input type="checkbox"/> (C)	Related and not persuasive (significant)
		<input type="checkbox"/> (D)	Not significant (counted under j in disposition)
		<input type="checkbox"/> (E)	Related and persuasive and not addressed by technical change DOCUMENT FAILS
		<input type="checkbox"/> (F)	Addressed by technical change (counted under k disposition)
	(check if applicable)	<input type="checkbox"/>	Comment generated. See 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)
#	Number of Negatives found not related	(i)
#	Number of Negatives found not significant	(j)
#	Number of Negatives addressed by technical change (Negative becomes not significant)	(k)
Final	<input checked="" type="checkbox"/>	$g - (h + i + j + k) = 0$ Reject is Not Valid and is not included in the denominator of § VI. Approval Conditions Check
	<input type="checkbox"/>	$g - (h + i + j + k) > 0$ Reject is included in the denominator of § VI. Approval Conditions Check
	<input type="checkbox"/>	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)

## Voting Interest Reject 2 (Voting Interest Name: The PEER Group)

### Voter Reject 1 (Voter: Albert Fuchigami, The PEER Group)

#### Negative 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.		
		Line Item# 1-b		
	Negative Text	<p>*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.</p> <p>REJECT #1 - Table 1 - CJProcessedMtrlList attribute - Similar to Reject Vote for Ballot 7139. SEMI E90 objects can be used by multiple process jobs. If this attribute is meant to indicate substrates that were processed successfully by this job, this attribute will not correctly represent it. For example, consider Substrate1 that is used by CJA-PJA and CJB-PJB. CJA-PJA processes Substrate1. An implementation keeps Substrate1 in the NEEDS PROCESSING state because CJB-PJB will use it. CJA-PJA's CJUnprocessedMtrlList will include Substrate1, even though it was processed by CJA-PJA. Same issues will apply to other MtrlList attributes proposed. Comment #1 - Table 1 - CJProcessedMtrlList - Definition states 'For equipment not supporting E90, the state criteria is equipment design dependent and it must be document. This is not clear. Is it trying to say the equipment defines what constitutes processed material? Similar clarifications for the other new attributes related to MtrlList</p>		
TF input (optional)				
Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO "Related" subsection	
	<input type="checkbox"/>	Withdrawal document received by Standards staff on MM/DD/YYYY.	GO TO "Final" subsection → (A)	
Related	Motion and Reason (check one)	<input checked="" 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)	
Motion and Reason	<input checked="" type="checkbox"/>	Negative is related and persuasive. (Needs >1/3 votes to pass.)		

Persuasive	(check one)		Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)																										
			Reason	XXXX																									
	Motion by/ 2 <sup>nd</sup> by		Xu Chen (HLMC)/Qiulong Zhu (AMEC)																										
	Discussion																												
	Result of Vote (check one)		22 Y-0 N; Motion passed <table border="1"> <tr> <td>X</td> <td>[Negative is related and persuasive.] &gt; 1/3</td> <td rowspan="2">Is a technical change recommended? (check one)</td> <td>X</td> <td>Y</td> <td>GO TO "Address by Technical Change Option" subsection</td> </tr> <tr> <td></td> <td>[Negative is related and not persuasive.] &lt; 2/3</td> <td></td> <td>N</td> <td>GO TO "Final" subsection → (E)</td> </tr> <tr> <td></td> <td>2/3 ≤ [Negative is related and not persuasive.] &lt; 90%</td> <td colspan="4">GO TO "Final" subsection → (C)</td> </tr> <tr> <td></td> <td>90% ≤ [Negative is related and not persuasive.]</td> <td colspan="4">GO TO "Not Significant Finding Option" subsection</td> </tr> </table>					X	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	X	Y	GO TO "Address by Technical Change Option" subsection		[Negative is related and not persuasive.] < 2/3		N	GO TO "Final" subsection → (E)		2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)					90% ≤ [Negative is related and not persuasive.]	GO TO "Not Significant Finding Option" subsection		
X	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	X	Y	GO TO "Address by Technical Change Option" subsection																								
	[Negative is related and not persuasive.] < 2/3			N	GO TO "Final" subsection → (E)																								
	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)																											
	90% ≤ [Negative is related and not persuasive.]	GO TO "Not Significant Finding Option" subsection																											
Address by Technical Change Option	<b>Technical Change Recommendations</b>  Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.																												
	Technical Changes 1	FROM: Section/Paragraph Table 1 Control Job Attributes/ CJProcessedMtrlList Definition  List of processed materials:  For equipment supporting E90, processed state material refers to material with E90 PROCESSED state. (Refer SEMI E90 9.3). This state is used on the independent CJob.  For equipment not supporting E90, the state criteria is equipment design dependent and it must be documented.																											
		TO: Section/Paragraph Table 1 Control Job Attributes/ CJProcessedMtrlList Definition  List of identifiers of the material associated with this control job's process jobs that started processing and completed processing successfully. Definition of processing successfully is implementation specific, and the substrate needs to complete processing successfully in all process jobs in this control job that the substrate is assigned to.																											
		Justification (If necessary)  In order to cover the use cases that one substrate associated with multiple Control Jobs; it is necessary to decouple the status with E90 Processing state of the material.																											

2	FROM: Section/Paragraph Table 1 Control Job Attributes/ CJUnprocessedMtrlList Definition			
	List of unprocessed materials:			
	For equipment supporting E90, unprocessed state material refers to material with E90 NEEDS PROCESSING and SKIPPED state. (Refer SEMI E90 9.3). This state is used on the independent CJob.			
	For equipment not supporting E90, the state criteria is equipment design dependent and it must be documented.			
	TO: Section/Paragraph Table 1 Control Job Attributes/ CJUnprocessedMtrlList Definition			
	List of identifiers of the material associated with this control job’s process jobs that have not started processing.			
	Justification (If necessary)			
	In order to cover the use cases that one substrate associated with multiple Control Jobs; it is necessary to decouple the status with E90 Processing state of the material.			
	3	FROM: Section/Paragraph Table 1 Control Job Attributes/ CJFailedMtrlList Definition		
		List of failed materials:		
For equipment supporting E90, failed state material refers to material with E90 ABORTED, REJECTED, LOST and STOPPED. (Refer SEMI E90 9.3). This state is used on the independent CJob.				
For equipment not supporting E90, the state criteria is equipment design dependent and it must be documented.				
TO: Section/Paragraph Table 1 Control Job Attributes/ CJFailedMtrlList Definition				
List of identifiers of the material associated with this control job’s process jobs that started processing and were not processed successfully.				
Definition of not processed successfully is implementation specific.				
Justification (If necessary)				
In order to cover the use cases that one substrate associated with multiple Control Jobs; it is necessary to decouple the status with E90 Processing state of the material.				
Motion		Negative is addressed by the technical change(s).		
Motion by/2 <sup>nd</sup> by		Xu Chen (HLMC)/Qiulong Zhu (AMEC)		
Discussion				
Result of Vote (check one)		22 Y-0 N; Motion passed		
		X	2/3 ≤ [Negative is addressed by the technical change(s).] GO TO “Incorporation of the Technical Change” subsection	
			[Negative is not addressed by the technical change(s).] < 2/3 GO TO “Final” subsection → (E)	
n of the Incorporatio	Motion		To incorporate the technical change(s).	
	Motion by/2 <sup>nd</sup> by		Kaijun Zhang (AMIES)/ Xu Chen (HLMC)	
	Discussion		None	
			18 Y-0 N; Motion passed (or failed)	



		<b>Result of Vote (check one)</b>	<input checked="" type="checkbox"/> 90% ≤ [Agree to incorporate.]	GO TO “Final” subsection → (F)	
			<input type="checkbox"/> [Disagree to incorporate.] > 10%	GO TO “Final” subsection → (E)	
<b>Not Significant Finding Option</b>	<b>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 ¶ 9.6.4.4.2)</b>				
	<b>Use of “Not significant finding option” (check one)</b>	<input type="checkbox"/>	It is mutually agreed upon to term the Negative “not significant”.	GO TO “Final” subsection → (D)	
		<input type="checkbox"/>	It is mutually agreed upon to term the Negative “significant”.	GO TO “Final” subsection → (C)	
		<input type="checkbox"/>	Whether or not the Negative is “not significant” is decided by a vote.		
	<b>Motion</b>	The Negative is “not significant”.			
	<b>Motion by/ 2<sup>nd</sup> by</b>	Name (Company)/Name (Company)			
	<b>Vote</b>	<input type="checkbox"/>	XX Y-XX N; Motion passed with simple majority	GO TO “Final” subsection → (D)	
<input type="checkbox"/>		XX Y-XX N; Motion failed with simple majority	GO TO “Final” subsection → (C)		
<b>Final</b>	<b>(check if applicable)</b>	<input type="checkbox"/>	(A)	Withdrawn (counted under h in disposition)	
		<input type="checkbox"/>	(B)	Not related (counted under i in disposition)	
		<input type="checkbox"/>	(C)	Related and not persuasive (significant)	
		<input type="checkbox"/>	(D)	Not significant (counted under j in disposition)	
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input checked="" type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)	
	<b>(check if applicable)</b>	<input type="checkbox"/>	Comment generated. See Section V-(ii) Comment # X.		

This table is needed for each Negative.

## Disposition of Voting Interest Reject 2

Check only when the Document has not been failed.

1	Original number (#) of Negatives	(g)	
#	Number of Negatives withdrawn	(h)	
#	Number of Negatives found not related	(i)	
#	Number of Negatives found not significant	(j)	
1	Number of Negatives addressed by technical change (Negative becomes not significant)	(k)	
<b>Final</b>	<input checked="" type="checkbox"/>	$g - (h + i + j + k) = 0$	Reject is Not Valid and is not included in the denominator of § VI. Approval Conditions Check
	<input type="checkbox"/>	$g - (h + i + j + k) > 0$	Reject is included in the denominator of § VI. Approval Conditions Check
	<input type="checkbox"/>	Reject without a Negative	Not Valid

## IV. Other Technical Issues

None

## V. Comments

### V- (i) Voters' Comments

Commenter 1 (Albert Fuchigami / The PEER Group) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	Table 1 - CJProcessedMtrlList - Definition states 'For equipment not supporting E90, the state criteria is equipment design dependent and it must be document. This is not clear. Is it trying to say the equipment defines what constitutes processed material? Similar clarifications for the other new attributes related to MtrlList.	
Action	The TC Chapter agreed to do one of the following actions.	
	*No motion is required in this step.	
	<input type="checkbox"/>	Already addressed by Commenter #, Comment #
	<input checked="" type="checkbox"/>	No further action was taken by the TC Chapter.
	<input type="checkbox"/>	Refer to the TF for more consideration.
	<input type="checkbox"/>	New Business
	<input type="checkbox"/>	Editorial Change
	Options for editorial change (check one)	Case 1: No vote in this section: To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.
		Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.
Editorial Changes	1	FROM: Section/Paragraph xxx
		TO: Section/Paragraph xxx
		Justification (If necessary)
Motion		To approve above editorial change(s)
Motion by/2 <sup>nd</sup> by		Name (Company)/Name (Company)
Discussion		XXXX
Vote		XX Y-XX N; Motion passed/failed.

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

Original section/paragraph number and at least one full sentence are required in “FROM” and “TO” fields.

1	Origin of this editorial change (Check one)	<input type="checkbox"/>	Commenter(s) / Comment(s) #
		<input checked="" type="checkbox"/>	Other [Clare Liu]
	FROM: Table 1, Form statements of new attributes CJProcessedMtrlList, CJUnprocessedMtrlList and CJFailedMtrlList.		
	The SECS-II structure format is specified in SEMI E94.1.		
	TO: Section/Paragraph XXX <del>The SECS-II structure format is specified in SEMI E94.1.</del>		
Justification: (If necessary) According to SEMI Regulation 8.9.5			
<p>8.9.5 <i>Editorial Change Types</i> — Editorial changes are of two types:</p> <ul style="list-style-type: none"> <li>• Type 1: minor changes (i.e., corrections of obvious misspelling, formatting to comply with the <i>Style Manual</i>, capitalization, italics, incorrect spacing, missing period at end of sentence, updating outdated titles in the Related Documents section); and</li> <li>• Type 2: those that introduce no change in technical content (e.g., changes to nontechnical information; insubstantial changes to existing Supplementary Materials; changes that reduce ambiguity; changes to eliminate an obvious technical content inconsistency; changes to replace a biased term with an approved, alternative, bias1 free term; changes to correct or add/delete punctuation; updating outdated titles in the Referenced Standards and Documents section; adding/deleting/changing Notes or footnotes).</li> </ul> <p>As the comments stated, normally in the standard do not describe SECS-II referred in subordinate standard. This statement is not consist with the standard style. To remove the statement to keep standard style consistent is considered as a Type 3 editorial change, specifically as “changes to eliminate an obvious technical content inconsistency”.</p>			
2	Origin of this editorial change (Check one)	<input type="checkbox"/>	Commenter(s) / Comment(s) #
		<input type="checkbox"/>	Other [ ]
	FROM: Section/Paragraph XXX		
	TO: Section/Paragraph XXX		
Justification: (If necessary)			
Motion		To approve the above editorial change(s).	
Motion by/ 2 <sup>nd</sup> by		Kaijun Zhang (AMIES)/ Xu Chen (HLMC)	
Discussion		None	

Vote	18 Y-0 N; Motion passed (or failed)

## 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	=	50	/	50	=	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.

## 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.

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		Qiulong Zhu(AMEC)/Kaijun Zhang (AMIES)	
Discussion		None	
Vote		18 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 including all the approved Line Items\*. See *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 (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 technology?	Yes, at least one of them is a patented technology	GO TO IX (a) “Patented Technology” subsection
				No	GO TO IX (b) “Copyright items” subsection

#### IX(a) Patented Technologies subsection

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

# Fill number	(l) Known Patented Technology that might be relevant to	# Fill number	(m) Number of patented technologies first became known to the TC Chapter on or after the day of the issuance of this Letter Ballot	Postpone assessment of such patented technologies to be performed at the next scheduled TC Chapter meeting.
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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

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 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	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

LOA Status of PMPT #1					
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.	The Document is failed and returned to the TF
				Quit activity.	
				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

Disclosed copyrighted item #1 (Brief description of its use in the Document):					
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	PROCEED to assess NEXT one, or if this is the last one, GO TO IX(b3)
				NO	The Document is failed and returned to the TF
		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

Copyright release Status of copyrighted item #1						
Has the copyright release been received from its owner ?.		YES	PROCEED to assess NEXT one, or if this is the last one, GO TO IX(c)			
		NO	MOTION		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)
			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 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

<b>Motion</b> <b>(Check all applicable items)</b>		Line item(s) [X], [X] and [X] passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
		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.
	X	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.
		Line item(s) [X], [X] and [X] failed TC Chapter review and will be returned to the TF for rework.
		Line item(s) [X], [X] and [X] failed TC Chapter review and work will be discontinued.
<b>Motion by/ 2nd by</b>		Kaijun Zhang (AMIES)/ Xu Chen (HLMC)
<b>Discussion</b>		None
<b>Vote</b>		17 Y-0 N; Motion passed
<b>Final Action</b>	x	Motion passed
		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.**