Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: China
Global Technical Committee: HB-LED
TC Chapter Cochairs: Hongbo Zuo/AURORA, Jiangbo Wang/HC SEMITEK
Standards Staff: Isadora Jin/SEMI China

	Scheduled in Background Statement	Actual
Date	TBD	3/16/2021
Location	TBD	Shanghai
Reason for Change of Date and/or Location (if changed)		

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

I. Document Number and Title

Document Number	Document Title
6589	Revision of SEMI HB4-0913 (Reapproved 0419), Specification of Communication Interfaces for High Brightness LED Manufacturing Equipment (HB-LED ECI)

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		Distribution		Return Rate	
Letter Ballot	47	÷	75	=	62.7%	≥60%
Intercommittee Ballot	45					
Voting Interest Reject(s)	1		Total Voters with Rejects		1	
Voting Interest Accept(s)	45					

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

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: Peer Group)
Voter Reject 1 (Voter: Albert Fuchigami and Peer Group)
Negative 1

<table>
<tr><td rowspan="4">Negative</td><td rowspan="2">Referenced Section/ Paragraph</td><td colspan="3">*TF/TC Chapter to fill in, including text in the ballot if necessary.</td></tr>
<tr><td colspan="3">Table 6</td></tr>
<tr><td rowspan="2">Negative Text</td><td colspan="3">*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.</td></tr>
<tr><td colspan="3">Table 6   HB LED ECI Variable Item List defines ProcessProgramParameterModifyInfo variable as a list of SECS Items where the inner parameters are CEPVAL. However, if using S2F41/F42, the command parameter values will be CPVAL items. ProcessProgramParameterModifyInfo variable should be structured the same way as ProcessProgramParameterHistory, where it says <COMMANDPARAMETERS> will be different format (using CPVAL or CEPVAL, depending if S2F41 or S2F49 was used).</td></tr>
<tr><td colspan="2">TF input (optional)</td><td colspan="3"></td></tr>
<tr><td colspan="2" rowspan="2">Withdrawal (check one)</td><td>X</td><td>No Negative withdrawal made by Voter.</td><td>GO TO "Related" subsection</td></tr>
<tr><td></td><td>Withdrawal document received by Standards staff on MM/DD/YYYY.</td><td>GO TO "Final" subsection → (A)</td></tr>
<tr><td rowspan="8">Related</td><td rowspan="3">Motion and Reason (check one)</td><td>X</td><td colspan="2">'Related' is mutually agreed upon. (Needs no motion.) GO TO "Persuasive" subsection</td></tr>
<tr><td></td><td colspan="2">Negative is not related. (Needs ≥2/3 votes to pass.)</td></tr>
<tr><td>■</td><td>Reason</td><td>XXXX</td></tr>
<tr><td>Motion by/ 2nd by</td><td colspan="3">Name (Company)/Name (Company)</td></tr>
<tr><td>Discussion</td><td colspan="3"></td></tr>
<tr><td rowspan="3">Result of Vote (check one)</td><td colspan="3">XX Y-XX N; Motion passed/failed.</td></tr>
<tr><td></td><td>[Negative is not related.] < 2/3</td><td>GO TO "Persuasive" subsection</td></tr>
<tr><td></td><td>2/3 ≤ [Negative is not related.]</td><td>GO TO "Final" subsection → (B)</td></tr>
<tr><td rowspan="6">Persuasive</td><td rowspan="3">Motion and Reason (check one)</td><td>X</td><td colspan="2">Negative is related and persuasive. (Needs >1/3 votes to pass.)</td></tr>
<tr><td></td><td colspan="2">Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)</td></tr>
<tr><td>■</td><td>Reason</td><td>It is better to modify the structure of the new variable ProcessProgramParameterModifyInfo as suggested and existing variable ProcessProgramParameterHistor to keep consistency.
TF has communicated the change with Albert and he approved.</td></tr>
<tr><td>Motion by/ 2nd by</td><td colspan="3">Han Cao (AMEC)/Yang Gan (HIT)</td></tr>
<tr><td>Discussion</td><td colspan="3"></td></tr>
<tr><td></td><td colspan="3">31 Y-0 N (1 Abstain); Motion passed.</td></tr>
</table>

					[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	X	Y	GO TO "Address by Technical Change Option" subsection
	Result of Vote (check one)	X	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)		N	GO TO "Final" subsection → (E)
			[Negative is related and not persuasive.] < 2/3	GO TO "Final" subsection → (C)			
			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			
Add ress	**Technical Change Recommendations** Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.						

			FROM: Section/Paragraph **Table 6 HB-LED ECI Variable Item List**
			Row: ProcessProgramParameterHistory

Variable Name	Format	Comment

ProcessProgramParameterHistory	**0**	Structure
		L,n
		    L,2
		        \<TIME>, empty string at if specified with PPSELECT. Else the time when the PPUPDATE was implemented.
		           \<COMMANDPARAMETERS>
		Where n is the number of times process program parameters were accepted.
		
		TIME shall be an empty string for command parameters specified with the PPSELECT remote command. Otherwise, TIME shall be formatted as defined in SEMI E5 and as configured by E5 TimeFormat. TIME shall reflect when the PPUPDATE command was accepted.
		
		When the process program parameters are set using S2,F41, then COMMANDPARAMETERS shall have the following format:
		\<L,m>
		  L,2
		    \<CPNAME1>
		    \<CPVAL1>
		  …
		  L,2
		    \<CPNAMEm>
		    \<CPVALm>
		Where m is the number of specified process program parameters. CPNAME and CPVAL are as defined in SEMI E5.
		
		When the process program parameters are set using S2,F49, then COMMANDPARAMETERS shall have the following format:
		\<L,m>
		  L,2
		    \<CPNAME1>
		    \<CEPVAL1>
		  …
		  L,2
		    \<CPNAMEm>
		    \<CEPVALm>
		Where m is the number of specified process program parameters. CPNAME and CEPVAL are as defined in SEMI E5.

Technical Changes

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TO: Section/Paragraph Table 6 HB-LED ECI Variable Item List
Row: ProcessProgramParameterHistory

Variable Name	Format	Comment

ProcessProgramParameterHistory	**0**	When the process program parameters are set using S2,F41
		Structure
		L,n
		   L,2
		      <TIME>~~, empty string at if specified with PPSELECT. Else the time when the PPUPDATE was implemented.~~
		      ~~<COMMANDPARAMETERS>~~
		~~Where n is the number of times process program parameters were accepted.~~
		
		~~TIME shall be an empty string for command parameters specified with the PPSELECT remote command. Otherwise, TIME shall be formatted as defined in SEMI E5 and as configured by E5 TimeFormat. TIME shall reflect when the PPUPDATE command was accepted.~~
		
		~~When the process program parameters are set using S2,F41, then COMMANDPARAMETERS shall have the following format:~~
		<L,m>
		   L,2
		     <CPNAME1>
		     <CPVAL1>
		   …
		   L,2
		     <CPNAMEm>
		     <CPVALm>
		Where n is the number of times process program parameters were accepted.
		Where m is the number of specified process program parameters. ~~CPNAME and CPVAL are as defined in SEMI E5.~~
		
		When the process program parameters are set using S2,F49, ~~then COMMANDPARAMETERS shall have the following format:~~
		Structure
		L,n
		  L,2
		  <TIME>
		   <L,m>
		    L,2
		     <CPNAME1>
		     <CEPVAL1>
		   …
		    L,2
		     <CPNAMEm>
		     <CEPVALm>
		Where n is the number of times process program parameters were accepted.
		Where m is the number of specified process program parameters. ~~**CPNAME and CEPVAL are as defined in SEMI E5.**~~
		Note: TIME shall be formatted as defined in SEMI E5 and as configured by E5 TimeFormat. TIME shall reflect when

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				the process program parameter or process program parameter variable are modified.

	Justification (If necessary) **Ajust the structure of variables, ProcessProgramParameterModifyInfo and ProcessProgramParameterHistory to have different fomat in S2F41 and S2F49.**		

Motion	Negative is addressed by the technical change(s).		
Motion by/2nd by	Han Cao (AMEC)/Yang Gan (HIT)		
Discussion			
Result of Vote (check one)	32 **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)**

Incorporation of the Technical Change	**Motion**	To incorporate the technical change(s).		
	Motion by/2nd by	Han Cao (AMEC)/Yong Ji (GHTOT)		
	Discussion	**None**		
	Result of Vote (check one)	32 **Y**-0 **N**; Motion passed.		
		X	90% ≤ [Agree to incorporate.]	**GO TO "Final" subsection → (F)**
			[Disagree to incorporate.]>10%	**GO TO "Final" subsection → (E)**

Final	**(check if applicable)**		**(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**
		X	**(F)**	Addressed by technical change **(counted under k disposition)**	
	(check if applicable)			*Comment generated.* **See Section V-(ii) Comment # X.**	

This table is needed for each Negative.

Negative 2

	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.*
Negative		Table 6
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.*

		Table 6 HB LED ECI Variable Item List has ProcessProgramParameterModifyInfo in the ECV section. I don't think it should be an equipment constant value. I think it should be a data variable (In the DVVAL section like ProcessProgramParameterHistory)
		 You need to have CPName and CEPVAL elements for this last list node. For example:
		 c. L,2
		     1.<CPNAMEc>
		     2.<CEPVALc>

TF input (optional)		

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Withdrawal (check one)		X	No Negative withdrawal made by Voter.				**GO TO "Related" subsection**
			Withdrawal document received by Standards staff on MM/DD/YYYY.				**GO TO "Final" subsection → (A)**
Related	**Motion and Reason (check one)**	X	'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/ 2nd 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)**	X	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			
	Motion by/ 2nd by	Han Cao (AMEC)/Min Lu (MigeLab)					
	Discussion						
	Result of Vote (check one)	31 **Y**-0 **N (1 Abstain)**; Motion passed.					
		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	**Technical Change Recommendations** Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.						

		FROM: Section/Paragraph **Table 6 HB-LED ECI Variable Item List** **Row: ProcessProgramParameterModifyInfo**

Variable Name	Format	Comment
PortID	**51**	**PortID is defined SEMI E87.**
ECV's		
UseTimeSync	**11**	**UseTimeSync is defined in SEMI E148.**

ProcessProgramParameterModify Info	0	Structure
		When process program parameters are modified by Remote Command function S2,F41/F42 or the Enhanced Remote Command S2,F49/F50. (PPFILE-UPDATE), the Structure shall be as the following:
		`L,2`
		` 1.   < TIME >`
		` 2.   L,c          (c = Number of Changing parameters)`
		`      1. L,2`
		`           1.< CPNAME1>`
		`           2.< CEPVAL1>`
		`      2. L,2`
		`           1.< CPNAME2>`
		`           2.< CEPVAL2>`
		`      .`
		`      .`
		`      c. L,2`
		TIME shall be the time of modifying the process program parameter or process program parameter variable and use the E5 TimeFormat.

Technical Changes 1

FROM: Section/Paragraph **Table 6 HB-LED ECI Variable Item List**
Row: ProcessProgramParameterModifyInfo

TO: Section/Paragraph Table 6 HB-LED ECI Variable Item List
Row: ProcessProgramParameterModifyInfo

Variable Name	Format	Comment
PortID	**51**	**PortID is defined SEMI E87.**

ProcessProgramParameterModify Info	0	When process program parameters are set using S2,F41 (PPFILE-UPDATE)
		Structure
		L,2
		  <TIME>
		  <L,c>
		      L,2
		        < CPNAME1>
		        < CPVAL1>
		        …
		      L,2
		        < CPNAMEc>
		        < CPVALc>
		Where c is the number of modified process program parameters.
		
		When process program parameters are set using S2,F49 (PPFILE-UPDATE)
		Structure
		L,2
		  <TIME>
		  <L,c>
		      L,2
		        < CPNAME1>
		        < CEPVAL1>
		        …
		      L,2
		        < CPNAMEc>
		        < CEPVALc>
		Where c is the number of modified process program parameters.
		
		Note: TIME shall be formatted as defined in SEMI E5 and as configured by E5 TimeFormat. TIME shall reflect when the process program parameter or process program parameter variable are modified.

ECV's		
UseTimeSync	**11**	**UseTimeSync is defined in SEMI E148.**

ProcessProgramParameterModify Info	0	Structure
		When process program parameters are modified by Remote Command function S2,F41/F42 or the Enhanced Remote Command S2,F49/F50. (PPFILE-UPDATE), the Structure shall be as the following:
		L,2
		1. < TIME >
		2. L,c (c = Number of Changing parameters)
		    1. L,2
		       1.< CPNAME1>
		       2.< CEPVAL1>
		    2. L,2
		       1.< CPNAME2>
		       2.< CEPVAL2>

				.
				.
				~~c. L,2~~

~~TIME shall be the time of modifying the process program parameter or process program parameter variable and use the E5 TimeFormat.~~

Justification (If necessary) Change the variable from ECV section to DVVAL section as suggested. Have CPName and CEPVAL elements for this last list node.	

Motion	Negative is addressed by the technical change(s).
Motion by/2nd by	Han Cao (AMEC)/Min Lu (MigeLab)
Discussion	Han Cao (AMEC): TF decided to change the variable from ECV section to DVVAL section as suggested. We have communicated the change with Albert and he approved.

Result of Vote (check one)		30 Y-0 N (2 Abstain); 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)**

Incorporation of the Technical Change	**Motion**	To incorporate the technical change(s).	
	Motion by/2nd by	Han Cao (AMEC)/Min Lu (MigeLab)	
	Discussion		
	Result of Vote (check one)	30 Y-0 N (2 Abstain); Motion passed.	
		X	90% ≤ [Agree to incorporate.]	**GO TO "Final" subsection → (F)**
		[Disagree to incorporate.]>10%	**GO TO "Final" subsection → (E)**

Final	**(check if applicable)**		**(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**
		X	**(F)**	Addressed by technical change **(counted under k disposition)**
	(check if applicable)		*Comment generated. See Section V-(ii) Comment # X.*

This table is needed for each Negative.

Negative 3

	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.
Negative		**§ 7.5.1.5.4**
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.

		This revision adds new requirements and changes the requirement identifiers for existing ones. (For example, HB4.00 RQ 0024 00 to HB4.00 RQ 0026.00) The new requirements should get the next identifiers in the sequence, rather than changing existing requirement numbers (breaking backwards compatibility with compliance tables. (i.e. the new requirement should be HB4.00 RQ 00039.00.			
	TF input (optional)				
	Withdrawal (check one)	X	No Negative withdrawal made by Voter.		**GO TO "Related" subsection**
			Withdrawal document received by Standards staff on MM/DD/YYYY.		**GO TO "Final" subsection → (A)**
Related	**Motion and Reason (check one)**	X	'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/ 2nd 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)**	X	Negative is related and persuasive. **(Needs >1/3 votes to pass.)**		
			Negative is related and not persuasive. **(Needs ≥2/3 votes to pass.)**		
		■	Reason	Entitled new requirements identifiers in the sequence as suggested.	
	Motion by/ 2nd by	Han Cao (AMEC)/Min Lu (MigeLab)			
	Discussion				
	Result of Vote (check one)	29 **Y**-0 **N (3 Abstain)**; Motion passed.			
		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	**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 § 7.5.1.5.4.7.1** 7.5.1.5.4.7.1 [HB4.00-RQ-00024-00] If process program parameter variables are supported, then the process program variables shall be specified as command parameters in the Remote Command function S2,F41/F42 or the Enhanced Remote Command S2,F49/F50. The CPNAME data items shall contain the process program parameter variables names. The CPVAL data items shall contain the respective process program parameter variables values. The RCMC in remote command are same with Process program parameter change, which are PP-SELECT, PP-UPDATE, and PPFILE-UPDATE. . [/RQ] Refer to 7.5.1.5.4.6 above for more information.	
		TO: Section/Paragraph § 7.5.1.5.4.7.1 7.5.1.5.4.7.1 ~~[HB4.00-RQ-00024-00]~~ [HB4.00-RQ-00043-00] If process program parameter variables are supported, then the process program variables shall be specified as command parameters in the Remote Command function S2,F41/F42 or the Enhanced Remote Command S2,F49/F50. The CPNAME data items shall contain the process program parameter variables names. The CPVAL/CEPVAL data items shall contain the respective process program parameter variables values. The RCMD in remote command are same with Process program parameter change, which are: PP-SELECT, PP-UPDATE, PPFILE-UPDATE. . [/RQ] Refer to 7.5.1.5.4.6 above for more information.	
		Justification (If necessary) **Request number shall be consistent with old version of HB4.**	
	2	**FROM: Section/Paragraph § 7.5.1.5.4.8** 7.5.1.5.4.8 [HB4.00-RQ-00025-00] If process program parameters are supported and RCMD PPFILE-UPDATE is supported, then the equipment shall support DVVAL "ProcessProgramParameterModifyInfo" – for the Process Program Change Event. . [/RQ]. See Table 6, "HB-LED ECI Variable Item List," below for more information.	
		TO: Section/Paragraph § 7.5.1.5.4.8 7.5.1.5.4.8 ~~[HB4.00-RQ-00025-00]~~ [HB4.00-RQ-00044-00] If process program parameters are supported and RCMD PPFILE-UPDATE is supported, then the equipment shall support DVVAL "ProcessProgramParameterModifyInfo" – for the Process Program Change Event. . [/RQ]. See Table 6, "HB-LED ECI Variable Item List," below for more information.	
		Justification (If necessary) **Request number shall be consistent with old version of HB4.**	

Motion	Negative is addressed by the technical change(s).	
Motion by/2nd by	Han Cao (AMEC)/Yang Gan (HIT)	
Discussion		

		31 Y-0 N (1 Abstain); Motion passed.	
Result of Vote (check one)	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)**

Incorporation of the Technical Change	**Motion**	To incorporate the technical change(s).	
	Motion by/2nd by	Han Cao (AMEC)/Yang Gan (HIT)	
	Discussion		
	Result of Vote (check one)	31 Y-0 N; Motion passed.	
		X	90% ≤ [Agree to incorporate.]	**GO TO "Final" subsection → (F)**
			[Disagree to incorporate.]>10%	**GO TO "Final" subsection → (E)**

F			(A)	Withdrawn **(counted under h in disposition)**

			(B)	Not related **(counted under i in disposition)**	
	(check if applicable)		(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**
		X	(F)	Addressed by technical change **(counted 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 number (#) of Negatives	**(g)**	
#	Number of Negatives withdrawn	**(h)**	
#	Number of Negatives found not related	**(i)**	
#	Number of Negatives found not significant	**(j)**	
3	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**

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)

Technical Issue	**Origin**	***TF/TC Chapter to choose** Comment 1 (Voter: Albert Fuchigami/Peer Group)	
	Referenced Section/ Paragraph	***TF/TC Chapter to fill in including text in the ballot as appropriate.**	
		§7.5.1.5.4.7.1	
	Reason	***Original Comment text, if applicable, and problem statement, including justification and suggestion, should be copied.**	

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			Think this should be RCMD?			

Handle technical issue identified above as a Negative.

Related	**Motion and Reason (check one)**	X	'Related' is mutually agreed upon. **(Needs no motion.)**		**GO TO "Persuasive" subsection**
			Negative is not related and assigned to TF. **(Needs ≥2/3 votes to pass.)**		
			Negative is not related and placed on agenda of current TC Chapter meeting as new business. **(Needs ≥2/3 votes to pass.)**		
		■	Reason	XXXX	
	Motion by/ 2nd 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] and assigned to TF.		**GO TO "Final" subsection → (B)**
			2/3 ≤ [Negative is not related] and placed on agenda of current TC Chapter meeting as new business.		
Persuasive	**Motion and Reason (check one)**	X	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	
	Motion by/ 2nd by	Han Cao (AMEC)/Liangwen Wu (SMTC)			
	Discussion	Han Cao (AMEC): We made mistakes when typing words. Liangwen Wu (SMTC): Please be more careful when editing.			
	Result of Vote (check one)	31**Y**-0 **N**; Motion passed.			
		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)**	

Address by Technical Change Option	**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 7.5.1.5.4.7.1** The RCMC in remote command are same with Process program parameter change, which are PP-SELECT, PP-UPDATE, and PPFILE-UPDATE.
			TO: Section/Paragraph 7.5.1.5.4.7.1 The ~~RCMC~~ RCMD in remote command are same with Process program parameter change, which are PP-SELECT, PP-UPDATE, and PPFILE-UPDATE.
			Justification (If necessary) **Typing error. RCMC is modified to RCMD.**
	Motion		Negative is addressed by the technical change(s).

Motion by/2nd by			Han Cao (AMEC)/Liangwen Wu (SMTC)	
Discussion				
Result of Vote (check one)		31 **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)**
Incorporation of the Technical Change	Motion		To incorporate the technical change(s).	
	Motion by/2nd by		Han Cao (AMEC)/Yang Gan (HIT)	
	Discussion			
	Result of Vote (check one)	31 **Y**-0 **N**; Motion passed.		
		X	90% ≤ [Agree to incorporate.]	**GO TO "Final" subsection → (F)**
			[Disagree to incorporate.] >10%	**GO TO "Final" subsection → (E)**

Final	**(check one)**		**(B)**	Not related	
			(C)	Related and not persuasive	
			(E)	Related and persuasive and not addressed by technical change	**DOCUMENT FAILS**
		X	**(F)**	Addressed by technical change	
	(check if applicable)			Comment generated. See Section V-(ii) Comment # X.	

V. Comments

V- (i) Voters' Comments
None

V-(ii) Comments Created by Handling Negative

Comment (Created by Handling Negative) NC – 1

Comment	***TF/TC Chapter to fill in**
	CEPVAL shall be added in §7.5.1.5.4.2 as consistent.
Action	**The TC Chapter agreed to do one of the following actions.**
	*No motion is required in this step.
	X Already addressed by Commenter #, Comment #
	No further action was taken by the TC Chapter.

		Refer to the TF for more consideration.		
		New business		
		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.	
		X	**Case 2: Voted in this section:**	
			Original section number and at least one full sentence are required in "FROM" and "TO" fields.	

<table>
<tr><td rowspan="4">Editorial Changes</td><td rowspan="4">1</td><td>FROM: Section/Paragraph §7.5.1.5.4.2
[HB4.00-RQ-00019-00] If SEMI E40 is not supported and process program parameters are supported, then the process program parameters shall be specified as command parameters in the S2,F41 or S2,F49 message. The CPNAME data items shall contain the process program parameter names. The CPVAL data items shall contain the respective process program parameter values. [/RQ]</td></tr>
<tr><td>TO: Section/Paragraph §7.5.1.5.4.2
[HB4.00-RQ-00019-00] If SEMI E40 is not supported and process program parameters are supported, then the process program parameters shall be specified as command parameters in the S2,F41 or S2,F49 message. The CPNAME data items shall contain the process program parameter names. The CPVAL/CEPVAL data items shall contain the respective process program parameter values. [/RQ]</td></tr>
<tr><td>Justification (If necessary)
CEPVAL shall be added in §7.5.1.5.4.2 as consistent.</td></tr>
</table>

Motion	To approve above editorial change(s)
Motion by/2nd by	Han Cao (AMEC)/Yang Gan (HIT)
Discussion	None
Vote	31 **Y**-0 **N**; Motion passed.

This table is needed for each Comment created by handling Negative.

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)

		Accepts	(Accepts + Valid Rejects)			
Approval Rate	=	**45**	/ **45**	=	**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.
X	**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

Note: See *Regulations* § 15 for further information.

Motion	X	**This is not a Safety Document**, when all safety-related information is removed, the Document is still technically sound and complete. (*Regulations* ¶ 8.7.1)
		This is a Safety Document, when all safety-related information is removed, the Document is not technically sound and complete. (*Regulations* ¶ 8.7.2)
		Safety Checklist (*Regulations* ¶ 15.3) is complete and has been included with the Document throughout the balloting process. (*Regulations* ¶ 15.1.2)
Motion by/2nd by		Han Cao (AMEC)/Yang Gan (HIT)
Discussion		XXXX
Vote		32 **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	The TC Chapter meeting chair asked those participating, if they were aware of any patented technology that might be relevant (see *Regulations* ¶ 16.3.1.1) to the Standard or Safety Guideline; or, any copyrighted items or trademarks that are used/reproduced (see *Regulations* ¶ 16.4.1.2) in the Standard or Safety Guideline. (Also see, *Regulations* § 8.8)				

	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.**			
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**
			x	**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 the Standard/Safety Guideline	# 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.**
		# 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)**

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.

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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.	
				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/ 2nd 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)
		x	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	M	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/ 2nd 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?	x	YES	Is every instance of trademark use technically justified?	x	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.**
	x	NO	**GO TO X**

X. Action for This Document

		This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
Motion		This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.
	X	This Document 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.
		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/ 2nd by	Han Cao (AMEC)/Min LU (Migelab)
Discussion	XXXX
Vote	31 **Y**-0 **N (1 Abstain)**
Final Action	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.