

# Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: **North America**

Global Technical Committee: **Information and Control**

TC Chapter Cochairs: **Brian Rubow / Cimetrix, Jack Ghiselli**

Standards Staff: **Inna Skvortsova, James Amano**

	Scheduled in Background Statement	Actual
Date	07/13/2016	07/13/2016
Location	San Francisco, CA, USA	San Francisco, CA, USA
Reason for Change of Date and/or Location (if changed)		

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

## I. Document Number and Title

<b>Document Number</b> 5821C	<b>Document Title</b> NEW STANDARD: SPECIFICATION FOR SUBSYSTEM ENERGY SAVING MODE COMMUNICATION (SESMC)
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## 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* ¶ 9.7.1.1)

Voting Tally (with example values):

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	61	÷ 98	= 62.2%	≥60%
Intercommittee Ballot	18			
Voting Interest Reject(s)	3	Total Voters with Rejects		3
Voting Interest Accept(s)	23			

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

### III. Rejects

#### Voting Interest Reject 1 (Voting Interest Name: Hitachi Ltd.)

#### Voter Reject 1 (Voter: Matsuda, Mitsuhiro; Hitachi Kokusai)

#### Negative 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.		
	Negative Text	Currently, descriptions of “Action(s)” column of Table 7 are not Action(s), which is defined ¶6.2.3. It seems these descriptions are part of “New State”		
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 7/13/2016.	GO TO “Final” subsection → (A)	
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 (A)	Withdrawn (counted under h in disposition)	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.	

This table is needed for each Negative.

#### Negative 2

Negative	Referenced Section/ Paragraph	Referenced Section/ Paragraph: [Esss.ss-RQ-00023-00]	
	Negative Text	<p>StatusChange shall not be “optional”.            I think there exist following three implementations:            (1) “ProcessReady and ProcessNotReady” only            (2) “StatusChange” only            (3) Both “ProcessReady and ProcessNotReady” and “StatusChange”</p>	
TF input (optional)		<p>You are right with the three potential implementations. We would like to propose removal of the word “Optional” as a technical change to make parallel definitions with ProcessReady and ProcessNotReady notifications thus support all three implementations you mention in your negative            ---            To incorporate the technical change to Table 8, requirement 23, removing the word “Optional”</p>	
Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO “Related” subsection

			Withdrawal document received by Standards staff			GO TO "Final" subsection → (A)							
Related	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.)				GO TO "Persuasive" subsection						
	Motion and Reason (check one)	X	Negative is related and persuasive. (Needs >1/3 votes to pass.)										
Persuasive	Motion and Reason (check one)		Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)										
			Reason	XXXX									
	Motion by/ 2 <sup>nd</sup> by	Mike Czerniak (Edwards) / Nick Infelise (Omron)											
	Discussion	None											
	Result of Vote (check one)	16 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)										
		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.												
	1	FROM: Section/Paragraph											
		Table 8 [Esss.ss-RQ-00023-00]											
		<table border="1"> <thead> <tr> <th>RequirementID</th> <th>Signal or Message Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>[Esss.ss-RQ-00023-00]</td> <td>StatusChange</td> <td>N</td> <td>Optional. Notification from the subsystem to the production equipment that indicates the subsystem has transitioned to a new state. SubsystemEnergySavingState parameter is required to be sent along with the notification to indicate the new subsystem state.</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Irrespective of the protocol communications method used, notification can be achieved by changing one or more status signals. For example, ProcessReady signal can be used to indicate the completion of the transition from sleep mode.</td> </tr> </tbody> </table>	RequirementID	Signal or Message Name	Type	Description	[Esss.ss-RQ-00023-00]	StatusChange	N	Optional. Notification from the subsystem to the production equipment that indicates the subsystem has transitioned to a new state. SubsystemEnergySavingState parameter is required to be sent along with the notification to indicate the new subsystem state.			
RequirementID	Signal or Message Name	Type	Description										
[Esss.ss-RQ-00023-00]	StatusChange	N	Optional. Notification from the subsystem to the production equipment that indicates the subsystem has transitioned to a new state. SubsystemEnergySavingState parameter is required to be sent along with the notification to indicate the new subsystem state.										
			Irrespective of the protocol communications method used, notification can be achieved by changing one or more status signals. For example, ProcessReady signal can be used to indicate the completion of the transition from sleep mode.										

		<b>TO: Section/Paragraph</b>		
		<b>Table 8 [Esss.ss-RQ-00023-00]</b>		
	<i>RequirementID</i>	<i>Signal or Message Name</i>	<i>Type</i>	
			<i>Description</i>	
	[Esss.ss-RQ-00023-00]	StatusChange	N	
			<del>Optional</del> . Notification from the subsystem to the production equipment that indicates the subsystem has transitioned to a new state. SubsystemEnergySavingState parameter is required to be sent along with the notification to indicate the new subsystem state.	
			Irrespective of the protocol communications method used, notification can be achieved by changing one or more status signals. For example, ProcessReady signal can be used to indicate the completion of the transition from sleep mode.	
<b>Justification (if necessary)</b>				
<b>Motion</b>		Negative is addressed by the technical change(s).		
<b>Motion by/2<sup>nd</sup> by</b>		Andreas Neuber (AMAT)/Mike Czerniak (Edwards)		
<b>Discussion</b>		None		
<b>Result of Vote (check one)</b>		19 Y-0 N; Motion passed		
	<input checked="" 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)	
<b>Incorporation of the Technical Change</b>	<b>Motion</b>		To incorporate the technical change(s).	
	<b>Motion by/2<sup>nd</sup> by</b>		Andreas Neuber (AMAT)/Mike Czerniak (Edwards)	
	<b>Discussion</b>		None	
	<b>Result of Vote (check one)</b>		17 Y-0 N; Motion passed	
	<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>Final</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.		

### Negative 3

<b>Negative</b>	<b>Referenced Section/ Paragraph</b>	[Esss.ss-RQ-00029-00]

	Negative Text	This requirement is redundant with [Esss.ss-RQ-00015-00]	
TF input (optional)			
Withdrawal (check one)		<input type="checkbox"/>	No Negative withdrawal made by Voter. <b>GO TO "Related" subsection</b>
		<input checked="" type="checkbox"/>	Withdrawal document received by Standards staff on 7/13/2016. <b>GO TO "Final" subsection → (A)</b>
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 <b>DOCUMENT FAILS</b>
	<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.	

#### Negative 4

Negative	Referenced Section/ Paragraph	Section/ Paragraph: "IdleSleepRequestDefined=" in Table A1-2.	
	Negative Text	Referenced Section/ Paragraph: "IdleSleepRequestDefined=" in Table A1-2. This function is not defined in this Document.	
TF input (optional)			
Withdrawal (check one)		<input type="checkbox"/>	No Negative withdrawal made by Voter. <b>GO TO "Related" subsection</b>
		<input checked="" type="checkbox"/>	Withdrawal document received by Standards staff on 7/13/2016. <b>GO TO "Final" subsection → (A)</b>
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 <b>DOCUMENT FAILS</b>
	<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.	

#### Negative 5

Negative	Referenced Section/ Paragraph	Referenced Section/ Paragraph: [Esss.ss-RQ-00017-00]	

	<b>Negative Text</b>	When this transition occurs, it seems that "StatusChange" notification may be issued. I believe it is needed to report new sleep level with this notification even if it is optional.		
<b>TF input (optional)</b>				
<b>Withdrawal (check one)</b>	<input type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO "Related" subsection	
	<input checked="" type="checkbox"/>	Withdrawal document received by Standards staff on 7/13/2016.	GO TO "Final" subsection → (A)	
<b>Final</b>	<b>(check if applicable)</b>	<input checked="" type="checkbox"/>	<b>(A)</b> Withdrawn (counted under h in disposition)	
		<input type="checkbox"/>	<b>(B)</b> Not related (counted under i in disposition)	
		<input type="checkbox"/>	<b>(C)</b> Related and not persuasive (significant)	
		<input type="checkbox"/>	<b>(D)</b> Not significant (counted under j in disposition)	
		<input type="checkbox"/>	<b>(E)</b> Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	<b>(F)</b> Addressed by technical change (counted under k disposition)	
<b>(check if applicable)</b>	<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.

5	Original number (#) of Negatives	(g)	
4	Number of Negatives withdrawn	(h)	
0	Number of Negatives found not related	(i)	
0	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

Note: If all of the Negatives included with a Reject Vote are withdrawn, determined to be not related, or determined to be not significant, the Reject Vote is not valid. (Regulations ¶ 9.4.3.3)

Note: A Negative addressed by a technical change is automatically considered to be not significant. (Regulations ¶ 9.6.4.4.2)

### Voting Interest Reject 2 (Voting Interest Name: TEL)

#### Voter Reject 1 (Voter: Mashiro, Supika; TEL)

##### Negative 1

<b>Ⓢ Z</b>	Referenced Section/ Paragraph
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	Referenced Section/ Paragraph	Section 5.2					
	Negative Text	<p>Provide MECE definitions for subsystem operation modes that do not conflict with the state model</p> <p><i>Justification:</i>  State model and the definition for the subsystem idle mode indicate that idle mode is not provided for some subsystem but definition of subsystem sleep mode is given relative to subsystem idle mode therefor not applicable to subsystem without subsystem idle mode</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		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"/>					
Persuasive	Motion and Reason (check one)	<input checked="" type="checkbox"/>	Negative is related and persuasive. (Needs >1/3 votes to pass.)				
		<input type="checkbox"/>	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)				
			Reason	XXXX			
		Motion by/ 2 <sup>nd</sup> by	Mike Czerniak (Edwards) / Andreas Neuber (AMAT)				
		Discussion	None				
		Result of Vote (check one)	17 Y-0 N; Motion passed.				
	<input checked="" type="checkbox"/>		[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GO TO "Address by Technical Change Option" subsection
<input type="checkbox"/>	[Negative is related and not persuasive.] < 2/3			<input type="checkbox"/>	<input checked="" type="checkbox"/>	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					
Address by Technical	<p><b>Technical Change Recommendations</b></p> <p>Replace "Idle" with "Ready" in section 5.2.8 and add new definition in section 5.2: "subsystem ready mode - a mode where the subsystem is supporting or ready to support its intended purpose."</p>						

Technical Changes	1	<b>FROM: Section/Paragraph</b>
		5.2.8 <i>subsystem sleep mode</i> — the mode, entered by the subsystem in response to an external command, in which there will be a delay to return to <del>idle</del> but it is otherwise ready for processing. Average equivalent energy consumption rate in this mode is less than in subsystem <del>idle</del> mode.
		<b>TO: Section/Paragraph</b>
		5.2.8 <i>subsystem sleep mode</i> — the mode, entered by the subsystem in response to an external command, in which there will be a delay to return to <u>ready</u> but it is otherwise ready for processing. Average equivalent energy consumption rate in this mode is less than in subsystem <u>ready</u> mode.
		<b>Justification (if necessary)</b>



2	<p><b>FROM: Section/Paragraph</b></p> <p><b>5 Terminology</b></p> <p><i>5.1 Abbreviations and Acronyms</i></p> <p>5.1.1 <i>AMHS</i> – Automated Material Handling System</p> <p>5.1.2 <i>SESM</i> — Subsystem Energy Saving Mode</p> <p><i>5.2 Definitions</i></p> <p>5.2.1 <i>automated material handling system (AMHS) equipment</i> – a piece of equipment which has a carrier transfer robot that transfers carriers from and to passive equipment. It includes rail guided vehicles (RGV), automated guided vehicles (AGV) overhead hoist transports (OHT), overhead shuttles (OHS), and stockers. [SEMI E84]</p> <p>5.2.2 <i>host</i> — the factory computer system or an intermediate system that represents the factory and the user to the equipment. [SEMI E87]</p> <p>5.2.3 <i>production equipment</i> — equipment used to produce semiconductor devices, including wafer sorting, process, and metrology equipment and excluding AMHS equipment.</p> <p>NOTE 2: When reading S23 for the purpose of this Specification, “semiconductor manufacturing equipment” or “equipment” should be understood as “production equipment”.</p> <p>5.2.4 <i>sleep level</i> — one of several possible functional conditions in which the production equipment or subsystem is in sleep mode. Different subsystem sleep levels will provide different equivalent energy consumption rates.</p> <p>5.2.5 <i>subsystem</i> — a functionally related aggregate of components that is a part of a production equipment, that operates as a unit and is capable of performing one or more specific functions. A subsystem may be a constituent of another subsystem.</p> <p>5.2.6 <i>subsystem idle mode</i> — the mode of operation where the subsystem is ready to transition into process mode without significant delay, this transition may be made with or without requiring any specific control command.</p> <p>NOTE 3: It is possible that a subsystem has no idle mode.</p> <p>5.2.7 <i>subsystem process mode</i> — the mode of operation where the subsystem is energized, and performing its intended function (such as abating gas, pumping gas, or controlling temperature).</p> <p>5.2.8 <i>subsystem sleep mode</i> — the mode, entered by the subsystem in response to an external command, in which there will be a delay to return to idle but it is otherwise ready for processing. Average equivalent energy consumption rate in this mode is less than in subsystem idle mode.</p>
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	<p><b>TO: Section/Paragraph</b></p> <p><b>5 Terminology</b></p> <p><i>5.1 Abbreviations and Acronyms</i></p> <p>5.1.1 <i>AMHS</i> – Automated Material Handling System</p> <p>5.1.2 <i>SESM</i> — Subsystem Energy Saving Mode</p> <p><i>5.2 Definitions</i></p> <p>5.2.1 <i>automated material handling system (AMHS) equipment</i> – a piece of equipment which has a carrier transfer robot that transfers carriers from and to passive equipment. It includes rail guided vehicles (RGV), automated guided vehicles (AGV) overhead hoist transports (OHT), overhead shuttles (OHS), and stockers. [SEMI E84]</p> <p>5.2.2 <i>host</i> — the factory computer system or an intermediate system that represents the factory and the user to the equipment. [SEMI E87]</p> <p>5.2.3 <i>production equipment</i> — equipment used to produce semiconductor devices, including wafer sorting, process, and metrology equipment and excluding AMHS equipment.</p> <p>NOTE 2: When reading S23 for the purpose of this Specification, “semiconductor manufacturing equipment” or “equipment” should be understood as “production equipment”.</p>
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		<p>5.2.4 <i>sleep level</i> — one of several possible functional conditions in which the production equipment or subsystem is in sleep mode. Different subsystem sleep levels will provide different equivalent energy consumption rates.</p> <p>5.2.5 <i>subsystem</i> — a functionally related aggregate of components that is a part of a production equipment, that operates as a unit and is capable of performing one or more specific functions. A subsystem may be a constituent of another subsystem.</p> <p>5.2.6 <i>subsystem idle mode</i> — the mode of operation where the subsystem is ready to transition into process mode without significant delay, this transition may be made with or without requiring any specific control command.</p> <p>NOTE 3: It is possible that a subsystem has no idle mode.</p> <p>5.2.7 <i>subsystem process mode</i> — the mode of operation where the subsystem is energized, and performing its intended function (such as abating gas, pumping gas, or controlling temperature).</p> <p>5.2.8 <i>subsystem sleep mode</i> — the mode, entered by the subsystem in response to an external command, in which there will be a delay to return to idle but it is otherwise ready for processing. Average equivalent energy consumption rate in this mode is less than in subsystem idle mode.</p> <p><u>5.2.9 <i>subsystem ready mode</i> — the mode where the subsystem is supporting or ready to support its intended purpose.</u></p>	
		<b>Justification (if necessary)</b>	
<b>Motion</b>		Negative is addressed by the technical change(s).	
<b>Motion by/2<sup>nd</sup> by</b>		Andreas Neuber (AMAT)/Gino Crispieri (AMAT)	
<b>Discussion</b>		None	
<b>Result of Vote (check one)</b>		19 Y-0 N; Motion passed	
		<input checked="" type="checkbox"/>	2/3 ≤ [Negative is addressed by the technical change(s).] <b>GO TO “Incorporation of the Technical Change” subsection</b>
		<input type="checkbox"/>	[Negative is not addressed by the technical change(s).] < 2/3 <b>GO TO “Final” subsection → (E)</b>
<b>Incorporation of the Technical Change</b>	<b>Motion</b>		To incorporate the technical change(s).
	<b>Motion by/2<sup>nd</sup> by</b>		Gino Crispieri (AMAT) /Mike Czerniak (Edwards)
	<b>Discussion</b>		None
	<b>Result of Vote (check one)</b>		15 Y-1 N; Motion passed
		<input checked="" type="checkbox"/>	90% ≤ [Agree to incorporate.] <b>GO TO “Final” subsection → (F)</b>
		<input type="checkbox"/>	[Disagree to incorporate.] > 10% <b>GO TO “Final” subsection → (E)</b>
<b>Final</b>	<b>(check if applicable)</b>	<input type="checkbox"/>	<b>(A)</b> Withdrawn <b>(counted under h in disposition)</b>
		<input type="checkbox"/>	<b>(B)</b> Not related <b>(counted under i in disposition)</b>
		<input type="checkbox"/>	<b>(C)</b> Related and not persuasive (significant)
		<input type="checkbox"/>	<b>(D)</b> Not significant <b>(counted under j in disposition)</b>
		<input type="checkbox"/>	<b>(E)</b> Related and persuasive and not addressed by technical change <b>DOCUMENT FAILS</b>
		<input checked="" type="checkbox"/>	<b>(F)</b> Addressed by technical change <b>(counted under k disposition)</b>
	<b>(check if applicable)</b>	<input type="checkbox"/>	Comment generated. <b>See Section V-(ii) Comment # X.</b>

## Disposition of Voting Interest Reject 2

Check only when the Document has not been failed.

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

Note: If all of the Negatives included with a Reject Vote are withdrawn, determined to be not related, or determined to be not significant, the Reject Vote is not valid. (Regulations ¶ 9.4.3.3)

Note: A Negative addressed by a technical change is automatically considered to be not significant. (Regulations ¶ 9.6.4.4.2)

## Voting Interest Reject 3 (Voting Interest: Sakamoto, Mitsune, Self.)

### Voter Reject 1 (Voter: Sakamoto, Mitsune)

#### Negative 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.		
	Negative Text	Subsystem Process Mode and Subsystem Idle Mode should be removed from (1) Figure 1 Subsystem Energy Saving State Model (2) RQ00007 and (3) RQ00008		
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 7/13/2016.	GO TO "Final" subsection → (A)	
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)	

<b>(check if applicable)</b>	<b>X</b>	Comment generated. <b>See Section V-(ii) Comment #</b>
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### Disposition of Voting Interest Reject 3

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 <b>(Negative becomes not significant)</b>	(k)	
Final	X	$g - (h + i + j + k) = 0$	Reject is Not Valid and is not included in the denominator of § VI. <i>Approval Conditions Check</i>
		$g - (h + i + j + k) > 0$	Reject is included in the denominator of § VI. <i>Approval Conditions Check</i>
		Reject without a Negative	Not Valid

Note: If all of the Negatives included with a Reject Vote are withdrawn, determined to be not related, or determined to be not significant, the Reject Vote is not valid. (*Regulations ¶ 9.4.3.3*)

Note: A Negative addressed by a technical change is automatically considered to be not significant. (*Regulations ¶ 9.6.4.4.2*)

## IV. Other Technical Issues

There were no other technical issues.

## V. Comments

### V- (i) Voters' Comments

Commenter 1 (**Mitch Sakamoto, Self**)

Comment	<b>*TF/TC Chapter to fill in section/paragraph #, if necessary.</b>	
	<p>The Task Force should consider to improve definitions in the Standard.</p> <p>(1) State Machine Diagram State with dotted line express parallel state with the Harel notation, That is Subsystem Process and Subsystem Idle are parallel state. Need to improve the notation.</p> <p>(2) Define transitions to/from Subsystem Process and Subsystem Idle.</p>	
Action	<b>The TC Chapter agreed to do one of the following actions.</b>	
	<p><b>*No motion is required in this step.</b></p> <p>Already addressed by Commenter #, Comment #</p>	

<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
<b>Options for editorial change (check one)</b>	<b>Case 1: No vote in this section:</b>
	To be included and voted on as a group in § VI. <i>Editorial Changes Other than Those Voted on in § V.</i>
	<b>Case 2: Voted in this section:</b>
	Original section number and at least one full sentence are required in “FROM” and “TO” fields.

This table is needed for each Comment.

## 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.

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 ¶ 9.7.1.2*)

**APPROVAL CONDITION 2:** At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations ¶ 9.7.1.3*)

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

		<b>Accepts</b>		<b>(Accepts + Valid Rejects)</b>					
<b>Approval Rate</b>	=	<b>24</b>	/	<b>26</b>	=	<b>92.3%</b>		<b>≥90%</b>	

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

**Note:** See *Regulations § 9.7.2* 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.

<b>Motion</b>	<input checked="" type="checkbox"/>	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 ¶ 8.7.1</i> )
	<input type="checkbox"/>	This is a <b>Safety Document</b> , when all safety-related information is removed, the Document is not technically sound and complete. ( <i>Regulations ¶ 8.7.2</i> )
	<input type="checkbox"/>	Safety Checklist ( <i>Regulations ¶ 15.3</i> ) is complete and has been included with the Document throughout the balloting process. ( <i>Regulations ¶ 15.1.2</i> )
<b>Motion by/2<sup>nd</sup> by</b>		Jack Ghiselli (Ghiselli Consulting) /Gino Crispieri (AMAT)
<b>Discussion</b>		none
<b>Vote</b>		17 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. This IP check applies to the entire Standard or Safety Guideline. See *Regulations § 16* for further information.

<input checked="" type="checkbox"/>	The TC Chapter meeting chair asked those participating, if they were aware of any potentially material patented technology or copyrighted items* in the Standard or Guideline. ( <i>Regulations ¶ 8.8.1</i> )	
<input type="checkbox"/>	No potentially material patented technology or reproduction of copyrighted items is known.	<b>GO TO SECTION X.</b>

\* Note: Such potentially material patented technology or copyrighted items might have become known since the Standard or Safety Guideline was last reviewed, or might become relevant due to this Letter Ballot.

## X. Action for This Document

<b>Motion</b>	<input type="checkbox"/>	This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
	<input type="checkbox"/>	This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.
	<input checked="" type="checkbox"/>	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.
	<input type="checkbox"/>	This Document failed TC Chapter review and will be returned to the TF for rework.
	<input type="checkbox"/>	This Document failed TC Chapter review and work will be discontinued.
<b>Motion by/2<sup>nd</sup> by</b>		Mike Czerniak (Edwards)/Gino Crispieri (AMAT)
<b>Discussion</b>		none
<b>Vote</b>		17 Y-0 N
<b>Final Action</b>		<input checked="" type="checkbox"/> Motion passed

	<input type="checkbox"/> Motion failed
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Standards staff to record the result of the A&R procedural review here:

A&R	<input type="checkbox"/>	Approved for publication
	<input type="checkbox"/>	Approved pending acceptance of the Ratification Ballot
	<input type="checkbox"/>	Not approved
	Reason:	