

Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: [North America](#)
 Global Technical Committee: [Facilities](#)
 TC Chapter Cochairs: [Michael Potts / Arcadis](#)
 Standards Staff: [Laura Nguyen](#)

	Scheduled in Background Statement	Actual
Date	11/05/2024	11/05/2024
Location	SEMI HQ, Milpitas, CA/USA	SEMI HQ, Milpitas, CA/USA
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
6628A	New Standard: Guide for Facilities Data Package for Manufacturing Equipment Installation and Building Information Modeling

II. Tally

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	70	÷	113	=	61.9%	≥60%
Intercommittee Ballot	23					
Voting Interest Reject(s)	0		Total Voters with Rejects		0	
Voting Interest Accept(s)	46					

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

III. Rejects None

IV. Other Technical Issues None

V. Comments

V- (i) Voters' Comments

Commenter 1 (Eric Sklar / Safety Guru) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	SG01	Footnote #2 <i>Comment:</i> Do not format the last sentence (trademark statement) as part of the link. <i>Reason/Justification:</i> Consistency with SEMI Style. This change may, I believe, be done as an Editorial Change in the meeting that adjudicates this ballot.
Action	The TC Chapter agreed to do one of the following actions.	
	*No motion is required in this step.	
	<input checked="" type="checkbox"/>	Editorial Change
Options for editorial change (check one)	<input type="checkbox"/>	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.
	<input checked="" type="checkbox"/>	Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.
	FROM: Section/Paragraph Footnote #2 <small>²National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471, USA; Telephone: +1.617.770.3000, Fax: +1.508 895-8301, http://www.nfpa.org. NFPA trademark is owned by National Fire Protection Association.</small>	
	TO: Section/Paragraph Footnote #2 <small>²National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471, USA; Telephone: +1.617.770.3000, Fax: +1.508 895-8301, http://www.nfpa.org. NFPA trademark is owned by National Fire Protection Association.</small>	
Editorial Changes	1	Justification (If necessary) Editorial in nature
	Motion	To approve above editorial change(s)
	Motion by/2 nd by	By: Supika Mashiro / Tokyo Electron Ltd. Second: Hosam Shawkey / WIKA Instrument Corporation
Discussion	None	
Vote	12 Y 0 N; Motion passed.	

Commenter 1 (Eric Sklar / Safety Guru) - Comment 2

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary		
	SG02	8.6.1	<i>Comment:</i> I suggest deleting "suggested layers with". <i>Reason/Justification:</i> This phrase is a repeat of something stated in ¶8.6, to which this paragraph is subordinate. This change may, I believe, be done as an Editorial Change in the meeting that adjudicates this ballot.
Action	The TC Chapter agreed to do one of the following actions.		
	*No motion is required in this step.		
	<input checked="" type="checkbox"/>	Editorial Change	
Editorial Changes	Options for editorial change (check one)	<input type="checkbox"/>	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.
		<input checked="" type="checkbox"/>	Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.
	1	FROM: Section/Paragraph 8.6.1 8.6.1 Table 1 below shows the suggested layers with recommended layer names.	
		TO: Section/Paragraph 8.6.1 8.6.1 Table 1 below shows the suggested layers with recommended layer names.	
Justification (If necessary) Editorial in nature			
Motion		To approve above editorial change(s)	
Motion by/2nd by		By: Daniel Zito / Swagelok Second: Hosam Shawkey / WIKA Instrument Corporation	
Discussion		None	
Vote		10 Y 0 N; Motion passed.	

Commenter 1 (Eric Sklar / Safety Guru) - Comment 3

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.		
	SG03	11.1	<i>Comment:</i> Delete one of the instances of "Figure 3" at the beginning of the paragraph. <i>Reason/Justification:</i> This is an obvious error in ballot preparation. This change may, I believe, be done as an Editorial Change in the meeting that adjudicates this ballot.
Action	The TC Chapter agreed to do one of the following actions.		
	*No motion is required in this step.		
	<input checked="" type="checkbox"/>	Editorial Change	
Editorial Changes	Options for editorial	<input type="checkbox"/>	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.
		<input checked="" type="checkbox"/>	Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.

	change (check one)	X	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 11.1 11.1 Error! Reference source not found. shows the recommended content and format of Data Sheet 201, Vibration Limits.	
		TO: Section/Paragraph 11.1 11.1 Figure 3 Figure 3 shows the recommended content and format of Data Sheet 201, Vibration Limits.	
		Justification (If necessary) Editorial in nature	
Motion		To approve above editorial change(s)	
Motion by/2 nd by		By: Daniel Zito / Swagelok Second: Hosam Shawkey / WIKA Instrument Corporation	
Discussion		None	
Vote		11 Y 0 N; Motion passed.	

Commenter 1 (Eric Sklar / Safety Guru) - Comment 4

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.		
	SG04	17.2.8_ Figure 10, and Figure 27	<i>Comment:</i> I suggest deleting the question mark from the paragraph title, cell H3 of Figure 10, and cell AA3 of Figure 27. <i>Reason/Justification:</i> The Document has established (§10.4.3) the style of not using question marks in column headers in the data sheets. These changes may, I believe, be done as Editorial Changes in the meeting that adjudicates this ballot.
Action	The TC Chapter agreed to do one of the following actions.		
	*No motion is required in this step.		
	X	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.
Editorial Changes	1	FROM: Section/Paragraph 17.2.8 17.2.8 <i>Removable via Pull Off or Quick Release Hinges?</i> — Whether the door or panel is removable via quick release hinges or straight pull off. If there are no doors or panels requiring removal in this clearance, this should be ‘N/A’.	
		TO: Section/Paragraph 17.2.8 17.2.8 <i>Removable via Pull Off or Quick Release Hinges?</i> — Whether the door or panel is removable via quick release hinges or straight pull off. If there are no doors or panels requiring removal in this clearance, this should be ‘N/A’.	
		Justification (If necessary) Editorial in nature	

2	FROM: Section/Paragraph Fig 10																																																																										
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Commenter 1 (Eric Sklar / Safety Guru) - Comment 5

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.																																																					
	SG05	Figure 14	<i>Comment:</i> Do not italicize cells G3 through L3 <i>Reason/Justification:</i> Consistency with the Document's style. This change may, I believe, be done as an Editorial Change in the meeting that adjudicates this ballot.																																																			
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Discussion	None																																																					
Vote	11 Y 0 N; Motion passed.																																																					

This table is needed for each Comment accompanied a Vote

Commenter 2 (Supika Mashiro / TEL) - Comment 1

Comment	<table border="1" style="width: 100%;"> <tr> <td style="width: 33%;">Abstain with Comments</td> <td style="width: 33%;">Tokyo Electron</td> <td style="width: 33%;">63933 - Supika Mashiro</td> </tr> <tr> <td colspan="3">Some terms (e.g., equipment, manufacturing equipment, semiconductor equipment) seem to be interchangeably used but only manufacturing equipment is defined. Consistent use of one term is recommended for readability.</td> </tr> </table>		Abstain with Comments	Tokyo Electron	63933 - Supika Mashiro	Some terms (e.g., equipment, manufacturing equipment, semiconductor equipment) seem to be interchangeably used but only manufacturing equipment is defined. Consistent use of one term is recommended for readability.		
	Abstain with Comments	Tokyo Electron	63933 - Supika Mashiro					
Some terms (e.g., equipment, manufacturing equipment, semiconductor equipment) seem to be interchangeably used but only manufacturing equipment is defined. Consistent use of one term is recommended for readability.								
Action	The TC Chapter agreed to do one of the following actions.							
	*No motion is required in this step.							
	X	Editorial Change						
Options for editorial change	X	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 2 2.1 This Guide identifies and suggests formats for reporting basic facilities building information model (BIM) and facilities data typically required to plan, prepare, model, and optimize a facility for the installation of semiconductor equipment. 2.2 This Guide includes information related to interconnections between pieces of manufacturing equipment as well as the facility connections to the manufacturing equipment. 2.3 This Guide recommends an equipment installation FDP containing documents covering equipment installation from layout planning and facility design, through equipment installation and hook-up. It describes the physical and digital objects to be delivered to the customer. 2.4 This Guide describes common items that may be used by the semiconductor manufacturers to create simulation programs for optimization of a facility. 2.5 This Guide describes a series of data sheets documenting utilities necessary to support semiconductor equipment. The data sheets provide a consistent format for both the equipment supplier and equipment purchaser to use in compiling and interpreting equipment installation data.					
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Justification (If necessary) Editorial in nature								
Motion			To approve above editorial change(s)					
Motion by/2nd by	By: Supika Mashiro / Tokyo Electron Ltd. Second: Taylor Rice / Swagelok							
Discussion	None							
Vote	10 Y 0 N; Motion passed.							

This table is needed for each Comment accompanied a Vote

Commenter 3 (Javan Quinsaas / Bechtel Manufacturing & Technology) - Comment 1

Comment	<p style="text-align: center;">Accept with Comments Bechtel Manufacturing & Technology 1178375 - Javan Quinsaas</p> <p>Hello, this is my first time providing comments. Please disregard if they are not inline with what the intent of the feedback needed. 1.) Section 8: Suggest adding load port center (facial datum plane) as a requirement for 3D model. 2.) Section 10.6.42: Question on how electrical classifications are to be used in EPOC Equipment identifier. 3.) Section 10.6.51: Question on if letter designations for utility type can be established here. 4.) Section 10.6.51: Question on if any other SEMI standard defines utility type and designates an identifier. 5.) Section A1-1.2: Question if the identifier should be expanded to include more digits for larger tools 6.) Section A1-1.3: Suggest adding more designations for equipment.</p> <p>6628A_JQuinsaas.pdf</p>		
	<p>The TC Chapter agreed to do one of the following actions.</p> <p>*No motion is required in this step.</p>		
Action	<p>1, 2, 3, 4, 6.</p>	<p>No further action was taken by the TC Chapter.</p>	
	<p>5</p>	<p>Editorial Change</p> <p>BE05 A1-1.2 Question if the identifier should be expanded to include more digits for larger tools</p>	<p>Editorial change. Added NOTE to section allowing multiple digits for "y".</p>
Editorial Changes	<p>Options for editorial change</p>	<p>X</p>	<p>Case 2: Voted in this section:</p> <p>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</p>
	<p>1</p>	<p>FROM: Section/Paragraph A1-1.2</p> <p>A1-1.2 To reduce the amount of work necessary to maintain these unique identifiers, points of connections to a given module can be assigned identifiers (e.g., 'W01' and 'W02' for water EPOCs) when the module is designed, and this information can be put in the module database. To make the EPOC unique for a system, an identifier should be expanded, and a designation should be added to distinguish the type of module, e.g., 'Hx-W01' for a water EPOC on a heat-exchanger. Finally, where there may be more than one of these modules in a system, the unique identifier should be expanded again to indicate the module that is being referred to. For example: 'Hx1-W01' for a water EPOC on heat exchanger number 1 for the system. Thus, the EPOC identifier in the original design database would be 'Hxy-W01', where y is a number assigned serially to each similar module in the system design. Examples for types of EPOCs are given below.</p> <p>TO: Section/Paragraph A1-1.2</p> <p>A1-1.2 To reduce the amount of work necessary to maintain these unique identifiers, points of connections to a given module can be assigned identifiers (e.g., 'W01' and 'W02' for water EPOCs) when the module is designed, and this information can be put in the module database. To make the EPOC unique for a system, an identifier should be expanded, and a designation should be added to distinguish the type of module, e.g., 'Hx-W01' for a water EPOC on a heat-exchanger. Finally, where there may be more than one of these modules in a system, the unique identifier should be expanded again to indicate the module that is being referred to. For example: 'Hx1-W01' for a water EPOC on heat exchanger number 1 for the system. Thus, the EPOC identifier in the original design database would be 'Hxy-W01', where y is a number assigned serially to each similar module in the system design. Examples for types of EPOCs are given below.</p> <p><u>NOTE 5: 'y' can consist of more than one digit.</u></p> <p>Justification (if necessary)</p> <p>Editorial change. Added NOTE XX to section allowing multiple digits for 'y'.</p>	
Motion	To approve above editorial change(s)		
Motion by/2nd by	By: Hosam Shawkey / WKA Instrument Corporation Second: Matthew Milburn / UCT		
Discussion	None		
Vote	10 Y 0 N; Motion passed.		

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
None**

II. 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	=	46	/	46	=	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.

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. (<i>Regulations ¶ 8.7.1</i>)
		This is a Safety Document , when all safety-related information is removed, the Document is not technically sound and complete. (<i>Regulations ¶ 8.7.2</i>)
		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>)
Motion by/2 nd by		By: Hosam Shawkey / WIKA Instrument Corporation Second: Daniel Zito / Swagelok
Discussion		None
Vote		10 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 <i>Regulations ¶ 16.3.1.1</i>) to the Standard or Safety Guideline; or, any copyrighted items or trademarks that are used/reproduced (see <i>Regulations ¶ 16.4.1.2</i>) in the Standard or Safety Guideline. (Also see, <i>Regulations § 8.8</i>)	
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.

X. Action for This Document

Motion	X	This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.
Motion by/2 nd by		By: Hosam Shawkey / WIKA Instrument Corporation Second: Matthew Milburn / UCT
Discussion		None
Vote		11 Y 0 N
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.