

Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: **Japan**

Global Technical Committee: **PI&C**

TC Chapter Cochairs: **Tsuyoshi Nagashima / Mirai, Daisuke Sado / Daihen, Yasuhisa Itou / Murata machinery**

Standards Staff: **Hirofumi Kanno**

	Scheduled in Background Statement	Actual
Date	12/22/2020	12/22/2020
Location	SEMI Japan office, Tokyo	SEMI Japan office, Tokyo
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
6684	New Standard: SPECIFICATION FOR PANEL FOUR LOADPORT FOR PANEL LEVEL PACKAGING

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 Votes	Distribution	Return Rate	
Letter Ballot	57	÷ 94	= 60.6%	≥60%
Intercommittee Ballot	38			
Voting Interest Reject(s)	2	Total Voters with Rejects		2
Voting Interest Accept(s)	34			

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

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: TEL)

Voter Reject 1 (Voter: Supica Mashiro/Tokyo Electron Ltd.)

Negative 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.		
	Negative Text	<p>*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.</p> <p>Comment/ A conjunction is necessary at the beginning of the first sentence for readability and correct grammar.</p> <p>[Suggestion] Insert "Since" or "As" at the beginning of the first sentence to read "Since the interface specification in this Document is driven by and intended to mate with a Panel FOUNDRY compliant to the relevant SEMI Panel FOUNDRY Standards, individual dimensions related to panel size are specified by the SEMI Subordinate Standards.</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	None	
	Motion by/ 2nd by	Name (Company)/Name (Company)		
	Discussion			
	Result of Vote (check one)	<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)	
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	None	
	Motion by/ 2nd by	Shoji Komatsu /Acteon NEXT , Mitsuhiro Matsuda/ KOKUSAI ELECTRIC		
Discussion	None			

		Y18- N 0; Motion passed				
Result of Vote (check one)	<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			
Technical Change Recommendations Original section/paragraph number and at least one full sentence are required in “FROM” and “TO” fields.						
Address by Technical Change Option	Technical Changes	1	FROM: Section/Paragraph 2.1 The interface specification in this Document is driven by and intended to mate with a Panel FOUNP compliant to the relevant SEMI Panel FOUNP Standards, individual dimensions related to panel size are specified by the SEMI Subordinate Standards.			
			TO: Section/Paragraph 2.1 Since the interface specification in this Document is driven by and intended to mate with a Panel FOUNP compliant to the relevant SEMI Panel FOUNP Standards, individual dimensions related to panel size are specified by the SEMI Subordinate Standards.			
			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/2nd by		Shoji Komatsu /Acteon NEXT , Mitsuhiro Matsuda/ KOKUSAI ELECTRIC				
Discussion		None				
Result of Vote (check one)		<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)		
Incorporation of the Technical	Motion		To incorporate the technical change(s).			
	Motion by/2nd by		Shoji Komatsu /Acteon NEXT , Mitsuhiro Matsuda/ KOKUSAI ELECTRIC			
	Discussion		None			
			<input checked="" type="checkbox"/>	90% ≤ [Agree to incorporate.]	GO TO “Final” subsection → (F)	

	Result of Vote (check one)	<input type="checkbox"/>	[Disagree to incorporate.]>10%	GO TO “Final” subsection → (E)	
Not Significant Finding Option	This option can be used only “if the TC Chapter finds a Negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action”. (Regulations ¶ 9.6.1.4.5.2)				
	Use of “Not significant finding option” (check one)	<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/ 2nd 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 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)	
	(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	*TF/TC Chapter to fill in, including text in the ballot if necessary.		
		Paragraph 2.1		
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. Negative/ Delete “SEMI” from “SEMI Subordinate Standard” Or, change “SEMI Subordinate Standard” to “applicable Subordinate Standard of this (Primary) Standard” Reason/Justification Referring a generic and undefined term would cause unnecessary confusions. Please note, “SEMI Subordinate Standard” is not defined in the Regulations or PM. There are many Subordinate Standards that have been developed or under development in the (SEMI Standard) Program, majority of them are not relevant to this Document.		
	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)
el R	Motion and Reason	<input checked="" type="checkbox"/>	‘Related’ is mutually agreed upon. (Needs no motion.)	GO TO “Persuasive” subsection

	(check one)	Negative is not related. (Needs $\geq 2/3$ votes to pass.)					
		Reason	XXXX				
	Motion by/ 2 nd 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	
		$2/3 \leq$ [Negative is not related.]				GO TO "Final" subsection \rightarrow (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 $\geq 2/3$ votes to pass.)				
			Reason	None			
	Motion by/ 2 nd by	Shoji Komatsu /Acteon NEXT , Mitsuhiro Matsuda/ KOKUSAI ELECTRIC					
	Discussion	None					
	Result of Vote (check one)	Y18- N0; 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 \rightarrow (E)	
		$2/3 \leq$ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection \rightarrow (C)				
		$90\% \leq$ [Negative is related and not persuasive.]	GO TO "Not Significant Finding Option" subsection				
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.						
	1	Technical Changes	FROM: Section/Paragraph 2.1				The interface specification in this Document is driven by and intended to mate with a Panel FOUP compliant to the relevant SEMI Panel FOUP Standards, individual dimensions related to panel size are specified by the SEMI Subordinate Standards.
			TO: Section/Paragraph 2.1				
The interface specification in this Document is driven by and intended to mate with a Panel FOUP compliant to the relevant SEMI Panel FOUP Standards, individual dimensions related to panel size are specified by the applicable SEMI Subordinate Standards of this Primary Standard.							
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 nd by	Shoji Komatsu /Acteon NEXT , Mitsuhiro Matsuda/ KOKUSAI ELECTRIC	
	Discussion	None	
	Result of Vote (check one)	Y18- N0; 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)
Incorporation of the Technical Change	Motion	To incorporate the technical change(s).	
	Motion by/2 nd by	Shoji Komatsu /Acteon NEXT , Mitsuhiro Matsuda/ KOKUSAI ELECTRIC	
	Discussion	None	
	Result of Vote (check one)	Y18- N0; 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)	
Not Significant Finding Option	This option can be used only “if the TC Chapter finds a Negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action”. (Regulations ¶ 9.6.1.4.5.2)		
	Use of “Not significant finding option” (check one)	<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 nd 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 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)	
(check if applicable)	<input type="checkbox"/>	Comment generated. See Section V-(ii) Comment # X.	

Negative 3

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.				
	Negative Text	<p>2.2</p> <p>*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.</p> <p>Negative/ Delete "by using any kind of system or device (i.e., person guided vehicle or overhead hoist vehicle)." or change "any kind of" to "appropriate" and "i.e." to "e.g.,</p> <p>Reason/Justification "using any kind of system or device" does not make sense, as loading/unloading action would certainly needs a specific system or device that has interface and mechanism to facilitate handing over a FOUP between the load port and itself. It is contradictive to refer "any kind of system" to a sentence lead by "i.e.," as the latter is very prescriptive.</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	None			
	Motion by/ 2nd 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)	
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	None			
	Motion by/ 2nd by	Shoji Komatsu / Acteon NEXT , Kiyoshi Kanashiro / TDK				
	Discussion	None				
	Result of Vote (check one)	Y 18- N 0; 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"/>	N	GO TO “Final” subsection → (E)		
		<input type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO “Final” subsection → (C)					
		<input type="checkbox"/>	90% ≤ [Negative is related and not persuasive.]	GO TO “Not Significant Finding Option” subsection					
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 2.2					Loading and unloading is assumed to take place in semi-automated and automated mode by using any kind of system or device (i.e., person guided vehicle or overhead hoist vehicle).	
			TO: Section/Paragraph 2.2					Loading and unloading is assumed to take place in semi-automated and automated mode by using appropriate any kind of system or device (e.g. i.e., person guided vehicle or overhead hoist vehicle).	
			Justification (if necessary)						
	Technical Changes	2	FROM: Section/Paragraph						
			TO: Section/Paragraph						
			Justification (if necessary)						
	Motion		Negative is addressed by the technical change(s).						
	Motion by/2nd by		Shoji Komatsu / Acteon NEXT , Kiyoshi Kanashiro / TDK						
	Discussion		None						
	Result of Vote (check one)		<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)		
	Incorporation of the Technical Change	Motion		To incorporate the technical change(s).					
		Motion by/2nd by		Shoji Komatsu / Acteon NEXT , Kiyoshi Kanashiro / TDK					
Discussion		None							
Result of Vote (check one)		Y18- N 0; 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)			
Not Significant Finding Option	This option can be used only “if the TC Chapter finds a Negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action”. (Regulations ¶ 9.6.1.4.5.2)								
	Use of “Not significant finding option” (check one)		<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)		

		Whether or not the Negative is “not significant” is decided by a vote.	
	Motion	The Negative is “not significant”.	
	Motion by/ 2nd by	Name (Company)/Name (Company)	
	Vote	XX Y-XX N; Motion passed with simple majority	GO TO “Final” subsection → (D)
		XX Y-XX N; Motion failed with simple majority	GO TO “Final” subsection → (C)
Final	(check if applicable)	(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
	X	(F)	Addressed by technical change (counted under k disposition)
	(check if applicable)	Comment generated. See Section V-(ii) Comment # X.	

Disposition of Voting Interest Reject 1

Check only when the Document has not been failed.

3	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)	
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)

Voting Interest Reject 2 (Voting Interest Name: TDK)
Voter Reject 1 (Voter: Tsutomu Okabe/TKD)

Negative 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.			
	Negative Text	<p>Figure 8</p> <p>*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.</p> <p>Figure 8 - y100 The clearance next to each other Load ports is needed $\geq 80\text{mm}$ for attachment and adjustment considering SEMI S2 and S8. I think the minimum Load port width would be around 800mm considering the port door size. Therefore, it is preferred y100 is $\geq 880\text{mm}$.</p>			
TF input (optional)		The TF agreed that the proposal of Middlesex will be reflected in Subordinate Standard Appendix at the next timing.			
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 12/10/2020		GO TO "Final" subsection → (A)	
Related	Motion and Reason (check one)	<input type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)		GO TO "Persuasive" subsection
		<input type="checkbox"/>	Negative is not related. (Needs $\geq 2/3$ 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.			
<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)		
Persuasive	Motion and Reason (check one)	<input type="checkbox"/>	Negative is related and persuasive. (Needs >1/3 votes to pass.)		
		<input type="checkbox"/>	Negative is related and not persuasive. (Needs $\geq 2/3$ 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.			
<input type="checkbox"/>	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	<input type="checkbox"/>	Y	GO TO "Address by Technical Change Option" subsection
<input type="checkbox"/>	[Negative is related and not persuasive.] < 2/3		<input type="checkbox"/>	N	GO TO "Final" subsection → (E)

		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	Technical Change Recommendations Original section/paragraph number and at least one full sentence are required in “FROM” and “TO” fields.			
	1	FROM: Section/Paragraph 1.1		
		TO: Section/Paragraph 1.1		
		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 nd 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 nd 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”. (Regulations ¶ 9.6.1.4.5.2)			
	Use of “Not significant finding option” (check one)		It is mutually agreed upon to term the Negative “not significant”.	GO TO “Final” subsection → (D)
			It is mutually agreed upon to term the Negative “significant”.	GO TO “Final” subsection → (C)
			Whether or not the Negative is “not significant” is decided by a vote.	
Motion		The Negative is “not significant”.		

	Motion by/ 2 nd 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
	<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	*TF/TC Chapter to fill in, including text in the ballot if necessary. Figure 8		
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. Figure 8 - y110 and y111 There is a kinematic coupling pin between y110 and y111 area.		
	TF input (optional)	The TF agreed that the proposal of Middlesex will be reflected in Subordinate Standard Appendix at the next timing.		
	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 //	GO TO "Final" subsection → (A)
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)	
		<input type="checkbox"/>	Negative is not related. (Needs ≥2/3 votes to pass.)	
		Reason	None	
	Motion by/ 2 nd by	Name (Company)/Name (Company)		
	Discussion			
	Result of Vote (check one)	<input type="checkbox"/>	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)
Persuasi ve	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	None
Motion by/ 2 nd by	Shoji Komatsu / Acteon NEXT , Kiyoshi Kanashiro / TDK	
Discussion	None	
Result of Vote (check one)	18 Y-0 N; Motion passed.	
	X [Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one) X Y
	[Negative is related and not persuasive.] < 2/3	N
	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	GO TO "Address by Technical Change Option" subsection
		GO TO "Final" subsection → (E)

Technical Change Recommendations

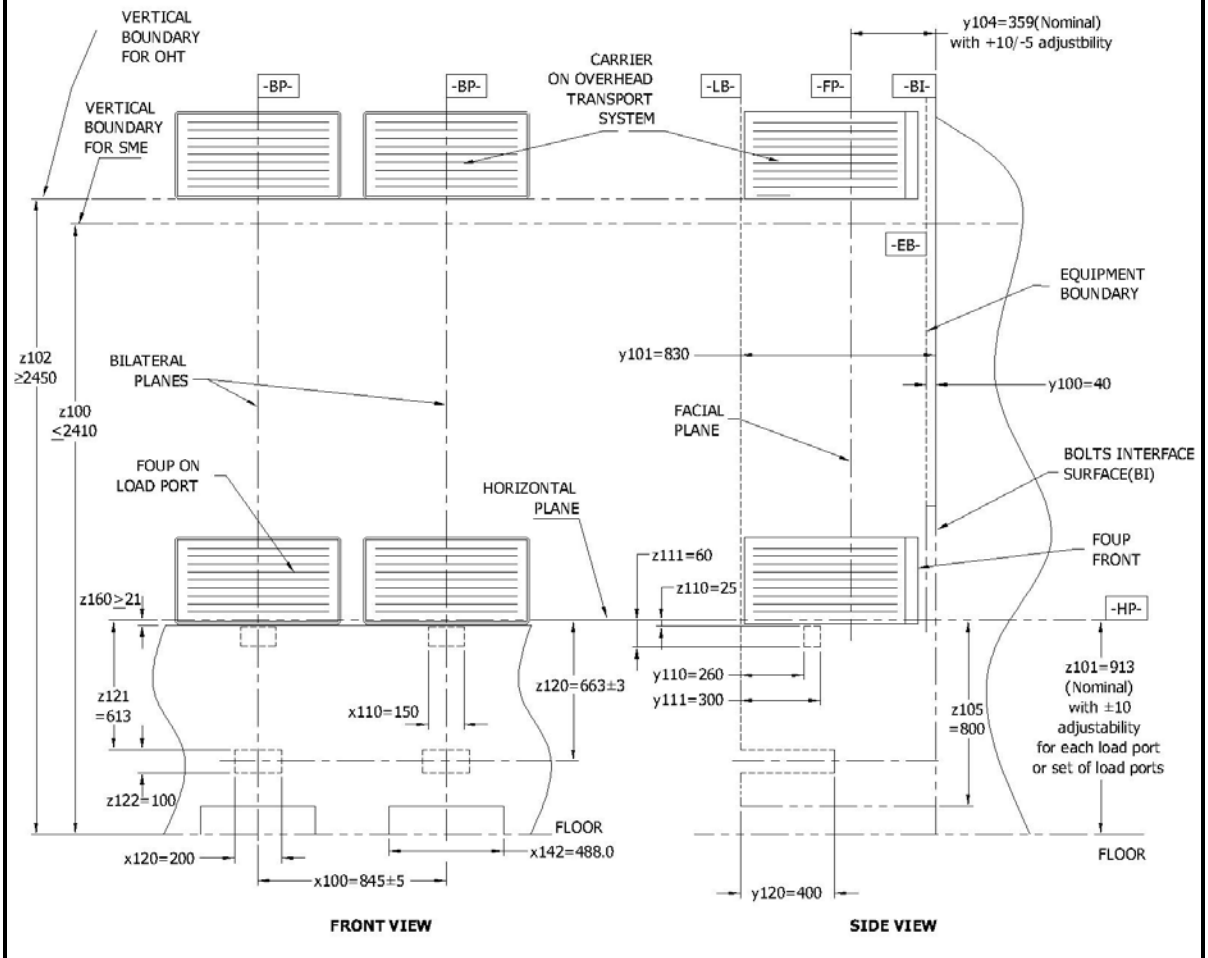
Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.

FROM: Section/Paragraph **Figure 8**

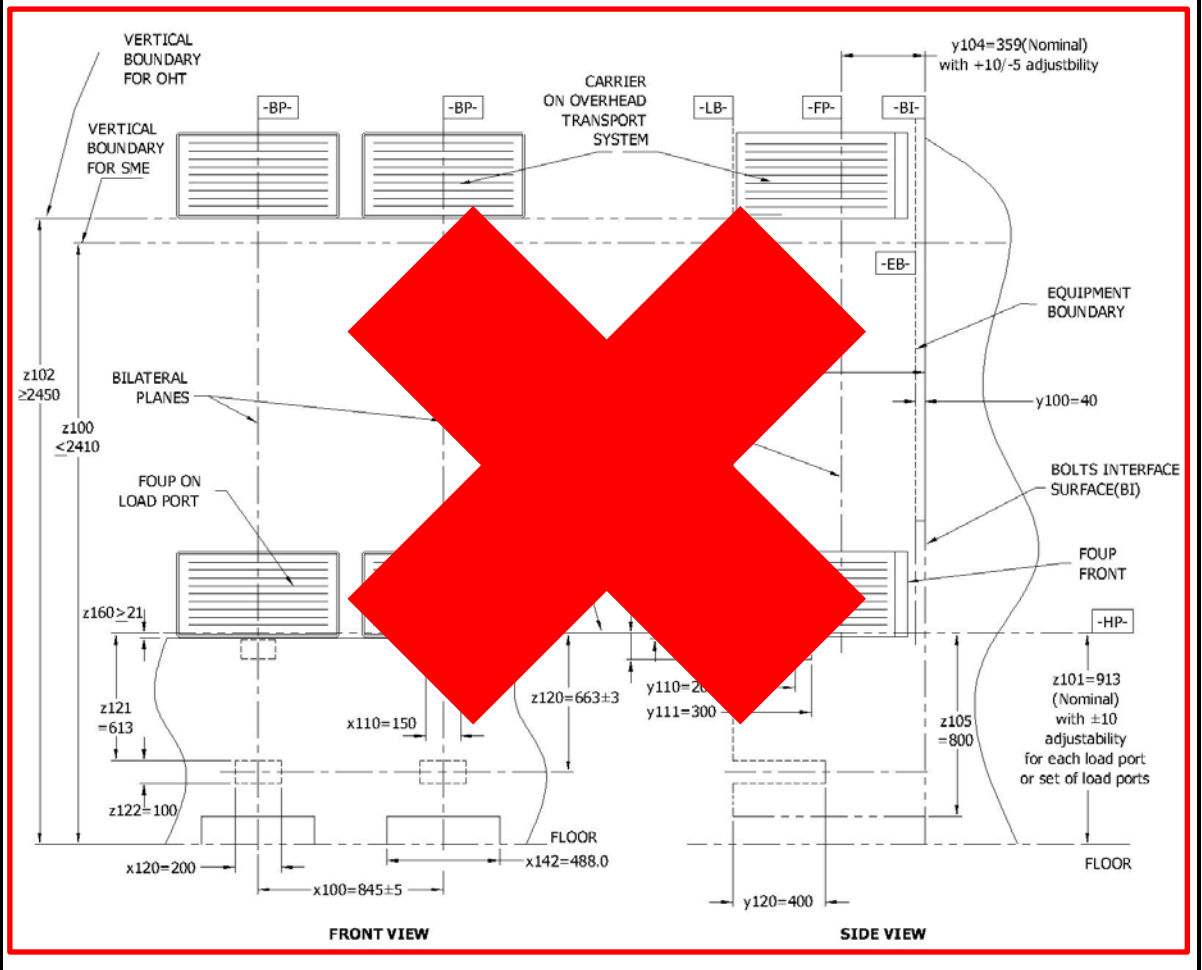
Address by Technical Change Option

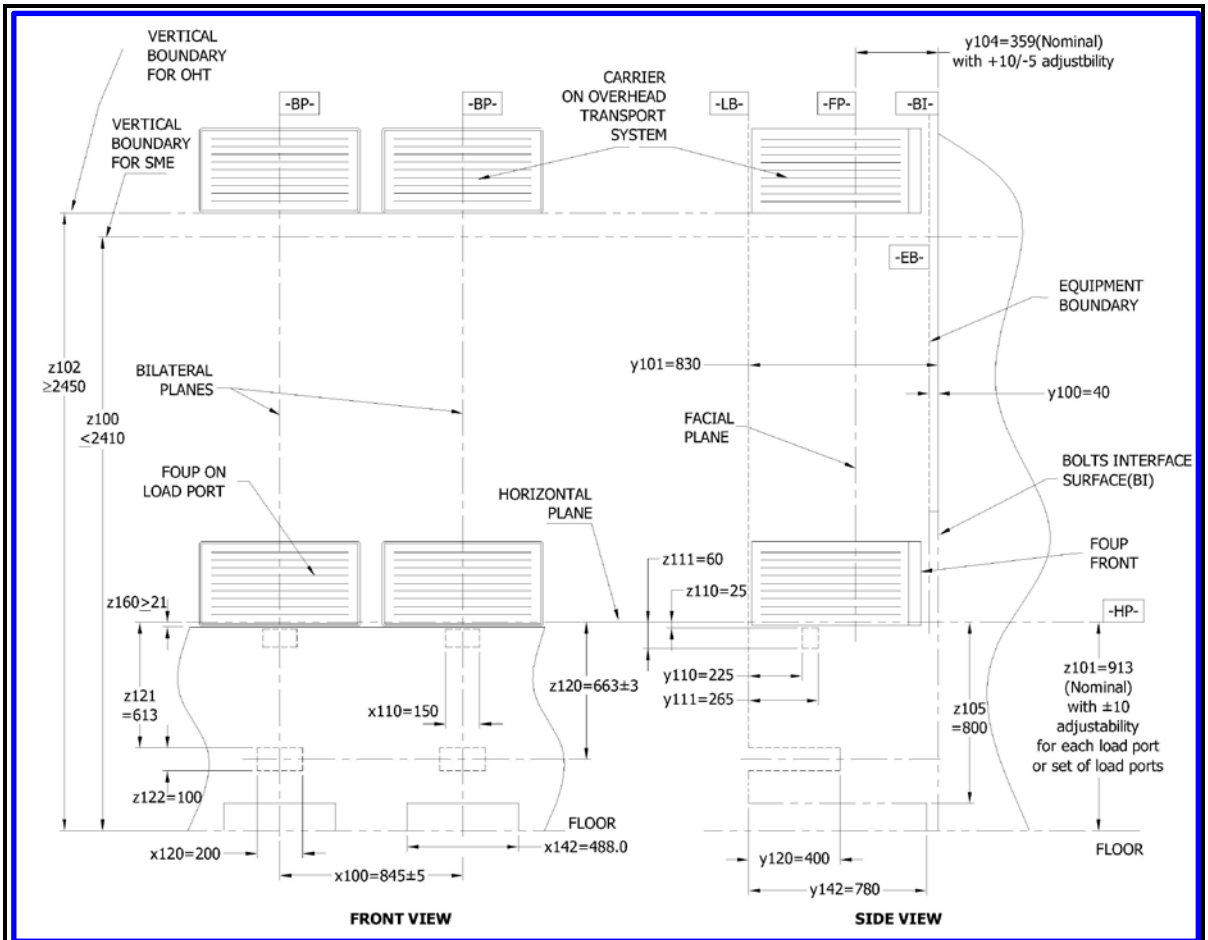
Technical Changes

1



TO: Section/Paragraph **Figure 8**





Justification (if necessary)

FROM: Section/Paragraph Table2

Symbol Used	Figure	Value Specified	Datum Measured From	Feature Measured To
y110	8	260 mm	LB	Edge of placement volume for RFID reader/writer towards LB
y111	8	300 mm	LB	Edge of placement volume for RFID reader/writer towards FP

TO: Section/Paragraph Table2

Symbol Used	Figure	Value Specified	Datum Measured From	Feature Measured To
y110	8	<u>225mm</u> 260 mm	LB	Edge of placement volume for RFID reader/writer towards LB
y111	8	<u>265mm</u> 300 mm	LB	Edge of placement volume for RFID reader/writer towards FP

Justification (if necessary)

Motion

Negative is addressed by the technical change(s).

Motion by/2nd by

Shoji Komatsu / Acteon NEXT , Kiyoshi Kanashiro / TDK

Discussion

None

	Result of Vote (check one)	18 Y-0 N; Motion passed.		
		<input type="checkbox"/>	2/3 ≤ [Negative is addressed by the technical change(s).] GO TO “Incorporation of the Technical Change” subsection	
		<input type="checkbox"/>	[Negative is not addressed by the technical change(s).] < 2/3 GO TO “Final” subsection → (E)	
	Incorporation of the Technical Change	Motion	To incorporate the technical change(s).	
		Motion by/2 nd by	Shoji Komatsu / Acteon NEXT , Kiyoshi Kanashiro / TDK	
Result of Vote (check one)	Discussion	None		
	18 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)			
Not Significant Finding Option	This option can be used only “if the TC Chapter finds a Negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action”. (Regulations ¶ 9.6.1.4.5.2)			
	Use of “Not significant finding option” (check one)	<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 nd 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 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)		
(check if applicable)	<input type="checkbox"/>	Comment generated. See Section V-(ii) Comment # X.		

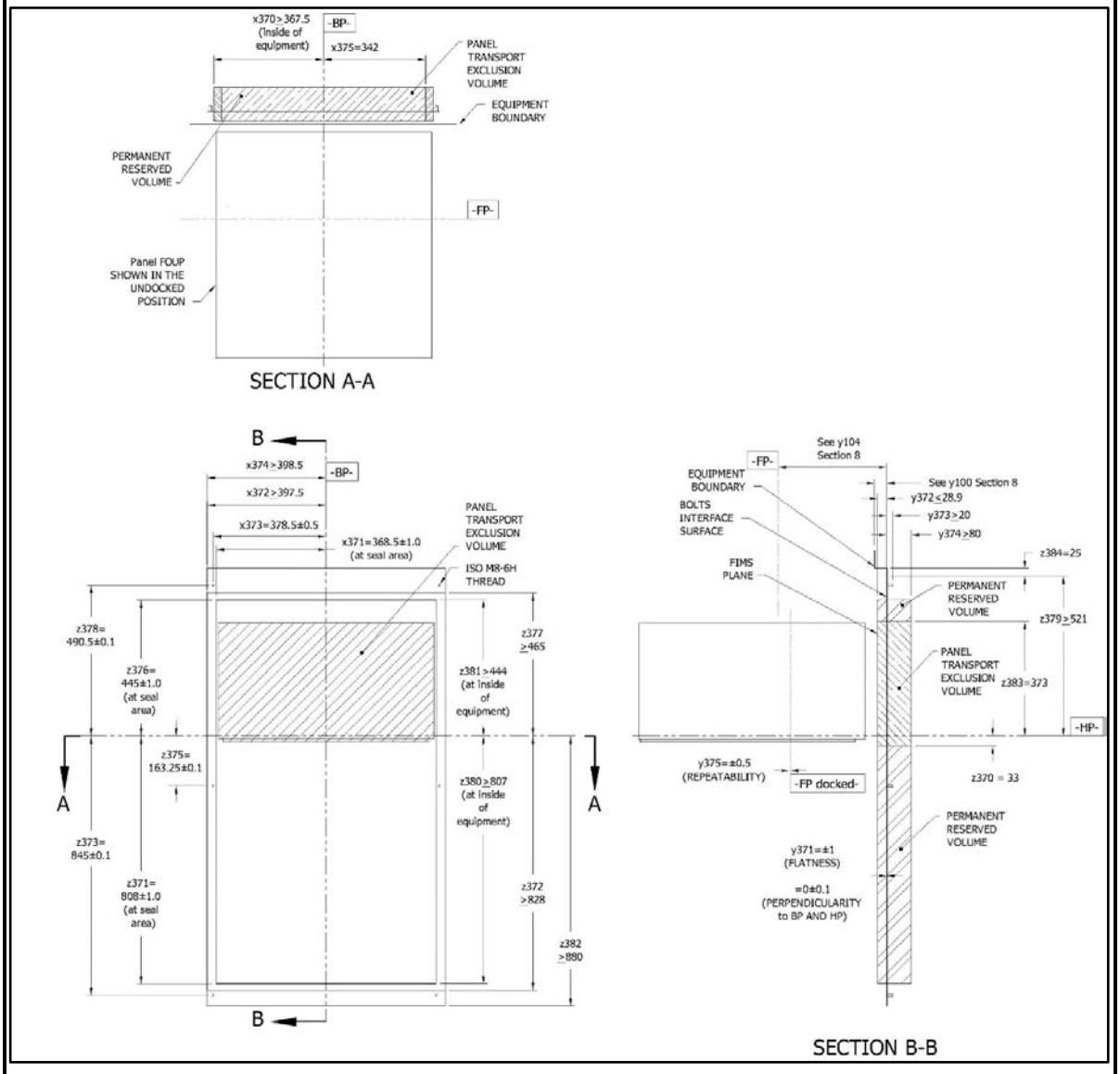
This table is needed for each Negative.

Negative 3

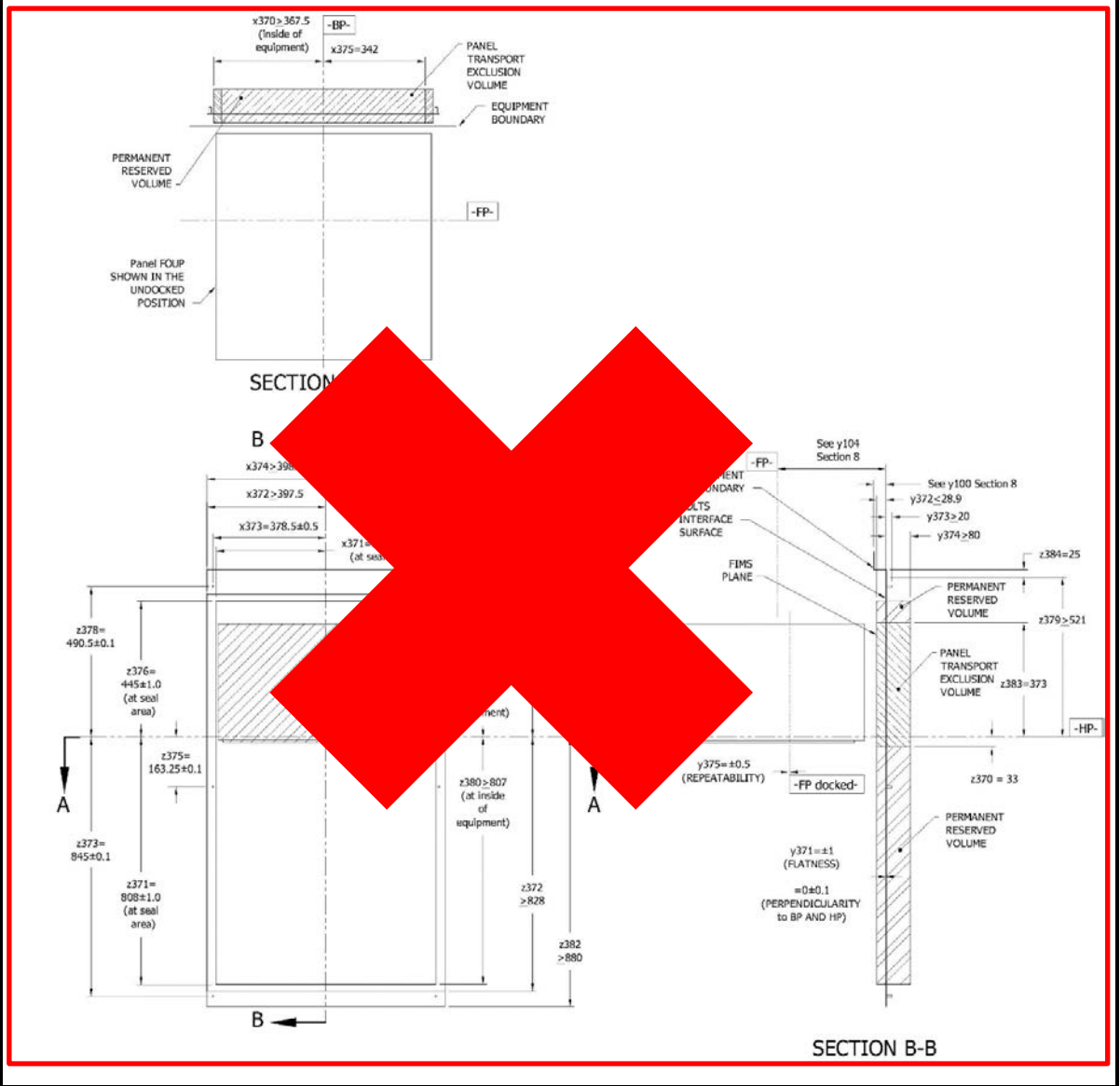
Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary. Figure 15
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. Figure 15 - y374 Because the latch key design is referenced to SEMI E154(450mm Load port), the port door thickness including the latch key driving unit would be same as E154. Therefore, y374 also should be same size as E154. (y374 ≥ 100mm) .

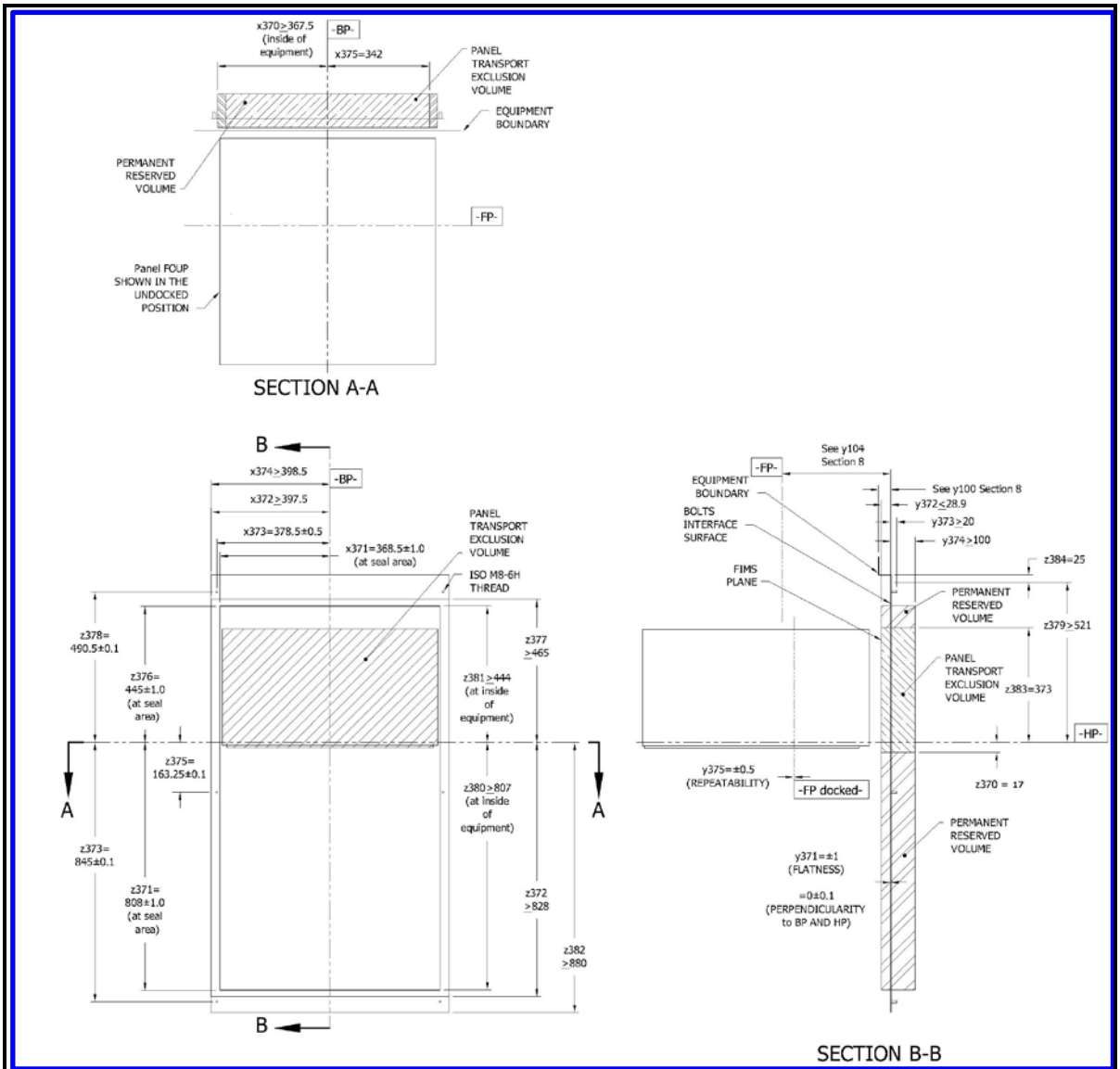
TF input (optional)		The TF agreed that the proposal of Middlesex will be reflected in Subordinate Standard Appendix at the next timing.				
Withdrawal (check one)		<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.		GO TO "Related" subsection	
		<input type="checkbox"/>	Withdrawal document received by Standards staff on		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.)			
		<input type="checkbox"/>	Reason	None		
	Motion by/ 2nd 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)		
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.)			
		<input type="checkbox"/>	Reason	None		
	Motion by/ 2nd by	Shoji Komatsu / Acteon NEXT , Kiyoshi Kanashiro / TDK				
	Discussion	None				
	Result of Vote (check one)	18 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 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				
Add less	Technical Change Recommendations Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.					

FROM: Section/Paragraph Figure 15



TO: Section/Paragraph Figure 15





Justification (if necessary)

FROM: Section/Paragraph Table 4

Symbol Used	Figure	Value Specified	Datum Measured From	Feature Measured To
y374	15	≥ 80 mm	BI	Encroachment of SME on the permanent reserved volume

TO: Section/Paragraph Table 4

Symbol Used	Figure	Value Specified	Datum Measured From	Feature Measured To
y374	15	≥ 100 mm ≥ 80 mm	BI	Encroachment of SME on the permanent reserved volume

Justification (if necessary)

Motion

Negative is addressed by the technical change(s).

Motion by/2nd by

Shoji Komatsu / Acteon NEXT , Kiyoshi Kanashiro / TDK

	Discussion	None	
	Result of Vote (check one)	<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)
Incorporation of the Technical Change	Motion	To incorporate the technical change(s).	
	Motion by/2 nd by	Shoji Komatsu / Acteon NEXT , Kiyoshi Kanashiro / TDK	
	Discussion	None	
	Result of Vote (check one)	<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)	
Not Significant Finding Option	This option can be used only “if the TC Chapter finds a Negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action”. (Regulations ¶ 9.6.1.4.5.2)		
	Use of “Not significant finding option” (check one)	<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 nd 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 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)	
(check if applicable)	<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.

3	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)
2	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. <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

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

None

V. Comments

None

V-(ii) Comments Created by Handling Negative

None

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

None

VII. Approval Conditions Check

VII. - (i). Approval Rate

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

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

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	34	/	34	=	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		Shoji Komatsu / Acteon NEXT , Kiyoshi Kanashiro / TDK
Discussion		None
Vote		18 Y- 0 N; Motion

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.		
	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	(<i>l</i>) Known Patented Technology that might be relevant to the Standard/Safety Guideline	# Fill number	(<i>m</i>) 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	(<i>n</i>) 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 (<i>Brief description, e.g., patent title and number</i>):		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		NO	The Document is failed and returned to the TF
		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.	
			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)
		o = 0 There is no disclosed copyrighted item	GO TO IX (c)

IX(b2) Assessment of disclosed copyrighted items

Disclosed copyrighted item #1 (<i>Brief description of its use in the Document</i>):

Is disclosed copyrighted item #1 used or reproduced in the Standard/Safety Guideline?	YES	Is the use/reproduction of this copyrighted item technically justified?	YES	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 nd 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

Motion	<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.
Motion by/ 2nd by	Shoji Komatsu / Acteon NEXT , Kiyoshi Kanashiro / TDK	
Discussion	None	
Vote	18 Y- 0 N	
Final Action	<input checked="" type="checkbox"/>	Motion passed
	<input type="checkbox"/>	Motion failed

Note: If the use of PMPT or copyrighted item is justified by the TC Chapter, LOA or release form must be received before publication can proceed.