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

Region/Locale: Japan

Global Technical Committee: EHS

TC Chapter Cochairs: Hidetoshi Sakura/advisor, Supika Mashiro/Tokyo Electron, Moray

Crawford/Hatsuta Seisakusho Standards Staff: Junko Collins

	Scheduled in Background Statement	Actual
Date	06/28/2016	06/28/2016
Location	Meeting Room, SEMI Japan Office, Tokyo, Japan	Meeting Room, SEMI Japan Office, Tokyo, Japan
Reason for Change of Date and/or Location (if changed)		

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

Document Information

I. Document Number, Title, Lists of Line Items

Document Number 5556B	Line Item Revision to SEMI S2-0715, Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment Revision to §19 "Seismic Protection" (In Delayed Effective Date Format)
Line Item 1	Line Item Title Revision to §19 "Seismic Protection" (Effective July 2018)

Line Item 1 Adjudication

II. Tally

Standards staff to fill in.

Voting Tally: As-cast tally after close of voting period

Note: A minimum of 60% of the Voting Interests that have TC Members within the global technical committee that issued the Letter Ballot must return Votes. (*Regulations* ¶ 9.7.1.1)

Voting Tally (with example values):

Voting Interest:	Returned Votes		Distribution		Return Rate	
Letter Ballot	56	÷	92	=	60.9%	≥60%
Intercommittee Ballot	29]				
Voting Interest Reject(s)	4]	Total	Vote	rs with Rejects	4
Voting Interest Accept(s)	45					

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

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: Intel Corporation) Voter Reject 1 (Voter: Swanson Scott / Intel Corporation)

9	alive i										
7	Referenced Section/ Paragraph	*TF/ (19)	C Chapter to fill in, includi	ng text in the ballot if nec	essary.						
Negative	Negative Text	not desi	The current design forces are based on the 1997 Uniform Building Code and this has not changed with this proposal. This is unacceptable – our industry should not be designing components using a 20-year old standard when there have been at least four editions of more modern standards written since then.								
TFi	input (optional)										
	Withdrawal		No Negative withdrawal mad	e by Voter.	GO TO "Related" subsection						
((check one)		Withdrawal document receive MM/DD/YYYY.	GO TO "Final" subsection → (A)							
	Motion and Reason (check one)	X	Related' is mutually agreed u	upon. (Needs no motion.)	GO TO "Persuasive" subsection						
			Negative is not related. (Nee	ds ≥2/3 votes to pass.)							
			Reason XXXX								
Related	Motion by/ 2 nd by	Nan	e (Company)/Name (Compa								
ated	Discussion										
		XX '	-XX N; Motion passed/failed								
	Result of Vote (check one)		Negative is not related.] < 2/	3	GO TO "Persuasive" subsection						
	(=====		2/3 ≤ [Negative is not related.]		GO TO "Final" subsection → (B)						
Persuas ve	Motion and Reason		Negative is related and persu	uasive. (Needs >1/3 votes t	to pass.)						
j j	(check one)	X	Negative is related and not p	ersuasive. <mark>(Needs ≥2/3 vot</mark>	es to pass.)						

				Re	eason	requirement is based on different assumptions and equations. While current S2 criteria don't give highest value for horizontal or vertical force, it is consistently high enough for both directions. TF was convinced that the current design forces should be regarded as a field proven criteria in recent three major earthquakes experienced in Japan (i.e., Great Hanshin-Awaji Earthquake, Niigata Chuetsu Earthquake and Great East Japan Earthquake). Therefore TF used the current design forces based on the 1997 Uniform Building Code.					
	IM		n by/ by	Naokat	su Nishigu	chi (SCREEN) /E	Iidetoshi Sakura (A	dviso	r)		
	Di	scu	ssion								
				[N	egative is ersuasive.]	related and	Is a technical change recommended?		Υ	GO TO "Address by Technical Change Option" subsection	
	Result of Vote (check one)				egative is ersuasive.]	related and not < 2/3	(check one)		N	GO TO "Final" subsection → (E)	
						ive is related uasive.] < 90%	GO TO "Final" s	ubse	ctio	n → (C)	
				x ar)% ≤ [Nega nd not pers	≤ [Negative is related onto persuasive.] GO TO "Not Significant Finding Option" subs			Finding Option" subsection		
Address by Technical Change Option	Original section/paragraph natifields. Address by Technical Changes To: Section/Paragra Technical Changes To: Section/Paragra To: Section/Paragra To: Section/Paragra To: Section/Paragra To: Section/Paragra Justification (If necessary)					oh XXX xxx iry) oh XXX	one full sentence	are r	equ	ired in "FROM" and "TO"	
ion	Moti	on			Negative	e is addressed by	y the technical cha	nnels	;)		
			oy/2 nd by	,		Company)/Name		90(3	//-		
	Disc					1 - 7)	. 1 = 37				

I					XX \	Y-XX N· N	Motion passed/failed.			
		Result of V			701		egative is addressed by the technical	GO TO "Incorporation of the Technical Change" subsection		
						[Negative change(s	e is not addressed by the technical s).] < 2/3	GO TO "Final" subsection → (E)		
		Motion			To i	ncorpora	te the technical change(s).			
	Inco	Motion by/	2 nd k	ру	Nan	ne (Comp	any)/Name (Company)			
	Motion by/2 Discussion Discussion Result of the (check)	n								
					XX '	Y-XX N; N	/lotion passed/failed.			
	hang Result of					90% ≤ [A	gree to incorporate.]	GO TO "Final" subsection → (F)		
	,,,	(check				-	e to incorporate.]>10%	GO TO "Final" subsection → (E)		
z	This option can be used only "if the TC Chapter finds a Negative not persuasive by a vote equal to a greater than 90% of the persons voting on the action". (<i>Regulations</i> ¶ 9.6.4.4.2)									
ot Siç	Us	e of "Not	x		mutu nifica		ed upon to term the Negative "not	GO TO "Final" subsection → (D)		
Not Significant Finding Option	sig findi	gnificant ng option" leck one)			muti nifica		ed upon to term the Negative	GO TO "Final" subsection → (C)		
<u> </u>	`	,		Wh	ether	or not the	e Negative is "not significant" is decide	ed by a vote.		
ndi	ľ	Motion	The	Neg	pative is "not significant".					
ng Op	Mo	otion by/ 2 nd by	Nan	ne (C	Company)/Name (Company)					
tion		Vote		XX	Y-XX	(N; Motio	on passed with simple majority	GO TO "Final" subsection → (D)		
		VOIC		XX	Y-XX	(N; Motio	on failed with simple majority	GO TO "Final" subsection → (C)		
					(,	A)	Withdrawn (counted under h in disp	oosition)		
					(В)	Not related (counted under i in disp	osition)		
	(0	check if			(C)	Related and not persuasive (significa	nt)		
Final		plicable)	X		(D)	Not significant (counted under j in d	isposition)		
<u>a</u>						E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS		
	ļ.,	1 1. 16			(F)	Addressed by technical change (cou	nted under k disposition)		
	(check if applicable)			Cor	nmer	nt generat	ted. See Section V-(ii) Comment # X			

	Referenced Section/	*TF/TC Chapter to fill in, including text in the ballot if necessary.
Ne	Paragraph	(19.2)
Negative	Negative Text	The current design forces are 0.94W and 0.63W and this has not changed with this proposal. This is unacceptable - these are too conservative when compared with current industry practice. These values are based on an older version of the 1997 UBC that was amended a few years later and on requirements for concrete anchors that are no longer applicable.

TF	l input (optional)							
	Withdrawal	x N	No Negative withdrawal made by Voter.				GO TO "Related" subsection	
	(check one)		Withdrawal d		ed by Standards st	aff on	GO TO "Final" subsection → (A)	
		X	Related' is m	nutually agreed ι	ıpon. (Needs no r	notion.)	GO TO "Persuasive" subsection	
	Motion and Reason	١	Negative is n	ot related. (Nee	ds ≥2/3 votes to p	ass.)		
	(check one)	F	Reason	xxxx				
Rel	Motion by/ 2 nd by	Name	e (Company)/Name (Compa	any)			
Related	Discussion							
		XX Y-	-XX N; Motio	n passed/failed				
	Result of Vote (check one)	[Negative is r	not related.] < 2/3	3		GO TO "Persuasive" subsection	
	(check offe)	2	2/3 ≤ [Negati	ve is not related.]		GO TO "Final" subsection → (B)	
		١	Negative is re	elated and persu	asive. (Needs >1/	3 votes t	to pass.)	
		X	Negative is re	elated and not po	ersuasive. (Needs	≥2/3 vot	es to pass.)	
Persuasive	Motion and Reason (check one)	F	The agreed objectives of revision if the Seismic Protection Section is define seismic force values that can be justified to be applied to design semiconductor manufacturing equipment regardless of location of use. If newer US standard (i.e. ASCE7-10) is used to calculate seismic forces relatively seismically active US location such as Santa Clara / C horizontal and vertical seismic force values are 0.38W and 0.16 respectively. Reason Certainly, proposed seismic forces in this Ballot are much conservative the them. Considering industry's desire to seek a design rule applicable to other glob locations such as Taiwan, however, seismic force values calculated f typical Taiwanese semiconductor production location based on ASCE7-are much higher and closer to the values proposed in the Ballot. (e. horizontal and vertical seismic force values based on ASCE 7-10 for Hsichu are 0.90W and 0.37W respectively.)					
	Motion by/ 2 nd by	Naoka	atsu Nishiguc	ehi (SCREEN) / I	Hidetoshi Sakura (A	Advisor)		
	Discussion							
	Result of Vote (check one)	[]	Negative is repersuasive.]: Negative is repersuasive.	elated and > 1/3 elated and not	Is a technical change recommended? (check one)	Y	GO TO "Address by Technical Change Option" subsection GO TO "Final" subsection → (E)	
		2	2/3 ≤ [Negati		GO TO "Final" s	ubsectio		

						Negative is repersuasive.]	elated	GO TO "Not S	ignificant F	Finding Option" subsection						
	Tech	nic	al Chang			ndations										
	Orig field		section	/paragra	ph n	ph number and at least one full sentence are required in "FROM" and "TO"										
			FROM:	Section/	Paragraph XXX											
			TO: Se	ction/Pa	ragra	aph xxx										
	T 6	1														
	chn		Justific	ation (If	tion (If necessary)											
	ical		FROM:	Section/	Para	graph XXX										
Ad	Cha															
dres	Technical Changes	2	TO: Se	ction/Paragraph xxx												
s by			luctific	cation (If necessary)												
Тес			Justino	alion (II	ion (ii necessary)											
hnic	Moti	on			Negative is addressed by the technical change(s).											
al C	Moti	on I	oy/2 nd by	,	Name (Company)/Name (Company)											
hanç	Disc	uss	ion													
je O					XX	Y-XX N; Mot	ion pass	ed/failed.								
Address by Technical Change Option			sult of V		change(s).] Technical Change" subsection											
					[Negative is not addressed by the technical change(s).] < 2/3			echnical	GO TO "Final" subsection → (E)							
			otion		To incorporate the technical change(s).											
	ncor Tec		otion by/		Name (Company)/Name (Company)											
	orporation of the chnical Change	Di	scussior	1												
	ation al Ci				XX	Y-XX N; Mot	ion pass	ed/failed.								
	n of t		Result o			90% ≤ [Agre	ee to inc	orporate.]		GO TO "Final" subsection → (F)						
	he Je		(check	one)		[Disagree to	o incorpo	rate.]>10%		GO TO "Final" subsection → (E)						
										uasive by a vote equal to or						
N _O		ier '	uiaii 9 0%	o or the	Jers(ons voting (m me ac	ction". (<i>Regula</i>	.6.e II suon	4.4.2)						
Not Significant Finding Option			£ "N-4		mut		upon to	term the Negati	ve "not	GO TO "Final" subsection → (D)						
op Ti	si	gni	f "Not ficant	Ť			upon to	term the Negati	ve	GO TO "Final" subsection						
ificant Option	find (cl		option" k one)		nifica		apon to	torm are regati		→ (C)						
Fin	Ì		•					is "not significar	nt" is decide	d by a vote.						
ding			tion	The Neg	gative	e is "not signi	ificant".									
	M	otic 2 nd	on by/ by	Name (0	Comp	any)/Name	(Compar	ny)								

	Vote		XX Y-XX N; Mot	on passed with simple majority	GO TO "Final" subsection → (D)			
	Vote		XX Y-XX N; Mot	ion failed with simple majority	GO TO "Final" subsection → (C)			
			(A)	Withdrawn (counted under h in disp	oosition)			
			(B)	Not related (counted under i in disp	osition)			
	(check if		(C)	Related and not persuasive (significant)				
Final	applicable)	Х	(D)	Not significant (counted under j in disposition)				
al			Related and persuasive and not addressed by technical change	DOCUMENT FAILS				
			(F)	Addressed by technical change (counted under k disposition				
	(check if applicable)		Comment gener	Comment generated. See Section V-(ii) Comment # X.				

9	alive 3										
	Referenced Section/		<u> </u>	o fill in, including text in the ballot if nec	essary.						
_	Paragraph	(19.2)									
Negative	Negative Text	Seis forc	The proposal changes the title of Section 19.2 from "Design Loads" to "Anticipated eismic Forces." This is unacceptable – the correct industry term is "design seismic orces" or "design loads" and the language should not be changed when it is more onfusing.								
TFi	nput (optional)										
Withdrawal		х	No Negative	withdrawal made by Voter.	GO TO "Related" subsection						
	(check one)		Withdrawal d MM/DD/YYY	ocument received by Standards staff on Y.	GO TO "Final" subsection → (A)						
	Motion and	Х	'Related' is m	nutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection						
	Reason (check one)		Negative is n	ot related. (Needs ≥2/3 votes to pass.)							
			Reason	xxxx							
Related	Motion by/ 2 nd by	Nan	Name (Company)/Name (Company)								
ated	Discussion										
		XX '	Y-XX N; Motio	n passed/failed.							
	Result of Vote (check one)		[Negative is r	not related.] < 2/3	GO TO "Persuasive" subsection						
	(5.155% 5115)		2/3 ≤ [Negativ	ve is not related.]	GO TO "Final" subsection → (B)						
Persuas ve	Motion and Reason		Negative is re	elated and persuasive. (Needs >1/3 votes	to pass.)						
jasi	(check one)	X	Negative is re	elated and not persuasive. (Needs ≥2/3 vot	tes to pass.)						

	Motion by/		R	eason	This terminology was specifically selected to promote precise consideration of forces that may be acting on the equipment from seismic events. While 'loading' might be common terminology for structure/building design, 'seismic forces' is nonetheless a correct concept. 'Anticipated' is an important qualifier in the context of Storder to link with section 19.1 which sets performance criteria with regard to anticipated seismic forces. It is not clear to which indust submitter is referring, but 'anticipated' is used many times in SEA series Documents and it is not uncommon in general discussions of seismic engineering.							
	M	otio 2 nd	n by/ by	Naokat	aokatsu Nishiguchi (SCREEN) / Hidetoshi Sakura (Advisor)							
	Discussion											
				7 Y-0 I	N; Motio	on passed						
	Result of Vote (check one)		pers			e is related and /e.] > 1/3	Is a technical change recommended?	Y	GO TO "Address by Technical Change Option" subsection			
			pε	ersuasiv	e is related and not ve.] < 2/3	(check one)	N	GO TO "Final" subsection → (E)				
						gative is related persuasive.] < 90%	GO TO "Final" subsection → (C)					
				90)% ≤ [N	egative is related persuasive.]	GO TO "Not Significant Finding Option" subsection					
A	field	FROM:		Section	n/Parag	graph XXX	one full sentence	are req	uired in "FROM" and "TO"			
Addres	Techn		Justific	ation (If nece	ssary)						
S	nical Changes		FROM:	Section	n/Parag	graph XXX						
by Technical Change Option	anges	2	TO: Se	ction/P	aragra	ph xxx						
Chang			Justific	ation (If nece	ssary)						
e Or	Motio	on			Nega	ative is addressed by	the technical cha	nge(s).				
tion	Motio	on k	y/2 nd by	/	Nam	e (Company)/Name	(Company)					
	Disc	ussi	ion									
					XX Y	-XX N; Motion pass	ed/failed.					
			sult of V heck on			2/3 ≤ [Negative is ad change(s).]	ddressed by the te	chnical	GO TO "Incorporation of the Technical Change" subsection			
					1	[Negative is not add			GO TO "Final" subsection			

		Motion		To	incorpora	te the technical change(s).			
	Inco Teo	Motion by/	2 nd I	oy Na	me (Comp	pany)/Name (Company)			
	orpoi	Discussion							
	atio		XX	XX Y-XX N; Motion passed/failed.					
	ncorporation of the Technical Change		Result of Vote		90% ≤ [A	Agree to incorporate.]	GO TO "Final" subsection → (F)		
	he e	(check	one)	[Disagre	e to incorporate.]>10%	GO TO "Final" subsection → (E)		
z						C Chapter finds a Negative not persong on the action". (<i>Regulations</i> ¶ 9.6			
ot Sig	Use	e of "Not	x	It is mu signific		eed upon to term the Negative "not	GO TO "Final" subsection → (D)		
Not Significant Finding Option	significant finding option" (check one)			It is mu "signifi		eed upon to term the Negative	GO TO "Final" subsection → (C)		
Ħ				Wheth	er or not th	e Negative is "not significant" is decide	ed by a vote.		
ndi	ı	Motion	The	Negativ	ve is "not s	ignificant".			
ng Op		otion by/ 2 nd by	Nar	ne (Con	Company)/Name (Company)				
tion		Vote		XX Y->	XX N; Motio	on passed with simple majority	GO TO "Final" subsection → (D)		
		vote		XX Y->	XX N; Motio	on failed with simple majority	GO TO "Final" subsection → (C)		
					(A)	Withdrawn (counted under h in dis	position)		
					(B)	Not related (counted under i in disp	oosition)		
	(0	heck if			(C)	Related and not persuasive (signification)	ınt)		
Final	ap	plicable)	Х		(D)	Not significant (counted under j in d	lisposition)		
<u>a</u>					(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS		
					(F)	Addressed by technical change (cou	nted under k disposition)		
	(check if applicable)				ent genera	ted. See Section V-(ii) Comment # X			

Ne	Referenced Section/ Paragraph		*TF/TC Chapter to fill in, including text in the ballot if necessary. (19.2.4)						
Negative	Negative Text	ove	proposal, Section 19.2.4 continues to use a maximum rturning forces. This is unacceptable – the standard s mic force like all the modern seismic codes on which t	hould properly use a vertical					
TF i	nput (optional)								
	Withdrawal (check one)		No Negative withdrawal made by Voter.	GO TO "Related" subsection					
			Withdrawal document received by Standards staff on MM/DD/YYYY.	GO TO "Final" subsection → (A)					

							GO TO "Persuasive"
	Motion and				ıpon. <mark>(Needs no</mark> n		subsection
	Reason	N	egative is no	ot related. (Need	ds ≥2/3 votes to p	ass.)	
	(check one)	R	eason				
Rel	Motion by/ 2 nd by						
Related	Discussion						
		XX Y->	XX N; Motion	n passed/failed.			
	Result of Vote (check one)	[N	legative is n	ot related.] < 2/3	3		GO TO "Persuasive" subsection
	,	2/	′3 ≤ [Negativ	e is not related.]		GO TO "Final" subsection → (B)
		N	egative is re	lated and persu	asive. (Needs >1/	3 votes	to pass.)
		X No	egative is re	lated and not pe	ersuasive. (Needs	≥2/3 vo	otes to pass.)
Persuasive	Motion and Reason (check one)	R	eason	sets the maximus as resisting the determined from center of gravit. The vertical seint effectively may concept and the successfully in Success	overturning moment the horizontal sy along with other smic force participates the weight of e way it has been e SEMI S2 for many seismic analysis growth the seismic analysis growth of the series of non-structure of gravity of the son-industries.com/extras.springer.com/extras.springer.com/2013-	ipment vent. The eismic for factors pates in the equivarence with equivarent weight equivariant ending the equivariant ending mason om/2003	verturning force, but rather weight that may be considered a overturning moment in turn is orce acting on equipment (e.g., equipment dimensions). this analysis to the extent that ipment greater or lesser. This d in this section has been used and in and of itself is not documents (through text or ght opposing the vertical force pment when discussing equipment (e.g. ind/_doc/pdf/ch49.pdf page 3/978-0-7923-7301-tems%20and%20Components.p
	Motion by/ 2 nd by	Naokat	tsu Nishigucl	hi (SCREEN) / I	Hidetoshi Sakura (A	Advisor)	
	Discussion						
	Result of Vote (check one)	7 Y-0 N; Motion passed [Negative is related and persuasive.] > 1/3			ls a technical change	Y	GO TO "Address by Technical Change Option" subsection
			legative is re ersuasive.] <	elated and not 2/3	recommended? (check one)	N	GO TO "Final" subsection → (E)
		ar		asive.] < 90%	GO TO "Final" s	ubsecti	on → (C)
			0% ≤ [Negat nd not persu	ive is related asive.]	GO TO "Not Sign	nificant	Finding Option" subsection

$\overline{}$				To Decommondations							
	Origi	rechnical Change Recommendations Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" ields.									
			FROM: \$	Secti	ion/	Para	graph XXX				
		1	TO: Sec	Section/Paragraph xxx							
	Techr		Justific	atio	n (If	f necessary)					
	Technical Changes		FROM: \$	Sect	ion/	Para	graph XXX				
Αď	hai										
Address by Technical Change Option	nges	2	TO: Sec	Section/Paragraph xxx							
by Te			Justific	cation (If necessary)							
chnic	Motic	 on				Negative is addressed by the technical change(s).					
al C	Motic	on k	y/2 nd by			Nan	ne (Company)/Name (Company)				
;har						пчатте (Соттрату)/пчатте (Соттрату)					
nge	Discu	ISSI	ion								
မွ							Y-XX N; Motion passed/failed.	CO TO "I comparation of the			
tion			sult of Vo				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)			
		Мо	tion			To incorporate the technical change(s).					
	Te	Мс	otion by/2 nd by			Nan	ne (Company)/Name (Company)				
	ncorpora: Technica	Dis	scussion								
		\vdash									
	다 다 다					XX	Y-XX N; Motion passed/failed.	GO TO "Final" subsection			
	tion of the I Change		Result of			<u> </u>	90% ≤ [Agree to incorporate.]	→ (F) GO TO "Final" subsection			
	T (D		(5	,	,		[Disagree to incorporate.]>10%	→ (E)			
No							"if the TC Chapter finds a Negative not persons voting on the action". (<i>Regulations</i> ¶ 9.6.	uasive by a vote equal to or			
Signi	Us	e o	f "Not	X		muti	ually agreed upon to term the Negative "not nt".	GO TO "Final" subsection → (D)			
Not Significant Finding Option	siç findi	gnif ing (icant option" cone)		It is mutually agreed upon to term the Negative "significant".			GO TO "Final" subsection → (C)			
Finc	(5	100.	(01.0,		Wh	ethe	or not the Negative is "not significant" is decide	d by a vote.			
ding					Neg	jative	e is "not significant".				
Optio	Mo	otio 2 nd	n by/ by	Nam	ne (C	Company)/Name (Company)					
nc				XX	Y-X>	(N; Motion passed with simple majority	GO TO "Final" subsection → (D)				

			XX Y-XX N; Mo	otion failed with simple majority	GO TO "Final" subsection → (C)		
			(A)	Withdrawn (counted under h in disposition)			
			(B)	Not related (counted under i in disposition)			
	(check if		(C)	Related and not persuasive (significa	ant)		
Final	applicable)	X	(D)	Not significant (counted under j in d	nder j in disposition)		
al			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS		
			(F)	Addressed by technical change (counted under k dispos			
	(check if applicable)		Comment gene	(.			

Check only when the Document has not been failed.

4	Original	Original number (#) of Negatives (g)							
0	Number of Negatives withdrawn (h)								
0	Number of Negatives found not related (i)								
4	Number of Negatives found not significant (j)								
0			egatives addressed by technic t significant)	al change (Negative	(k)				
		x	$\mathbf{g} - (\mathbf{h} + \mathbf{i} + \mathbf{j} + \mathbf{k}) = 0$	Reject is Not Valid and is not included in the denominator of § VI. Approval Conditions Check					
	Final		g - (h + i +j + k) >0	Reject is included in the Approval Conditions Conditions Conditions	he denominator of § VI. Check				
			Reject without a Negative	Not Valid					

Voting Interest Reject 2 (Voting Interest Name: NikonP) Voter Reject 1 (Voter: Mccafferty William/ NikonP) Negative 1

	Referenced Section/	* TF /	TC Chapter t	o fill in, including text in the ballot if nec	essary.					
	Paragraph	19.1								
Negative	Negative Text	acce One chan	By the statement in this paragraph relating to a risk level of medium or higher we are accepting that during a seismic event we are accepting that it is ok to injure people. One person's definition will differ from another. I suggest that the measure is changed to and no parts will fail or yield such that there would be a risk of causing injury to personnel or environmental impact.							
TFi	input (optional)									
	Withdrawal	х	No Negative	withdrawal made by Voter.	GO TO "Related" subsection					
	(check one)		Withdrawal d	ocument received by Standards staff on Y.	GO TO "Final" subsection → (A)					
	Motion and	Х	'Related' is m	nutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection					
	Reason (check one)		Negative is n	ot related. (Needs ≥2/3 votes to pass.)						
	(check one)		Reason	xxxx						
Related	Motion by/ 2 nd by	Name (Company)/Name (Company)								
ated	Discussion									
		XX Y	-XX N; Motio	on passed/failed.						
	Result of Vote (check one)		[Negative is r	not related.] < 2/3	GO TO "Persuasive" subsection					
			2/3 ≤ [Negati	ve is not related.]	GO TO "Final" subsection → (B)					
			Negative is re	elated and persuasive. (Needs >1/3 votes	to pass.)					
		X	Negative is re	elated and not persuasive. (Needs ≥2/3 vot	tes to pass.)					
Persuasive	Motion and Reason (check one)		Reason	Negative comment here appears to claim that no risk of causing injuracceptable, which is different from SEMI S2 concept. It is described it so this negative is not persuasive. 6.5 No reasonably foreseeable single-point failure condition or operate error should allow exposure of personnel, facilities, or the community hazards that could result in death, significant injury, or significant equipment damage. NOTE 9: The intent is to control single fault conditions that resusing significant risks (i.e., Very High, High, or Medium risks based on example risk assessment matrix in SEMI S10).						
	Motion by/ 2 nd by	Naokatsu Nishiguchi (SCREEN) / Hidetoshi Sakura (Advisor)								

	Di	scussion							
			7 Y-0 N; N	Motion passed					
	Result of Vote			ative is related and uasive.] > 1/3	Is a technical change recommended?	Y	GO TO "Address by Technical Change Option" subsection		
	(check one) [Ne personal content of the personal conte			ative is related and not uasive.] < 2/3	(check one)	N	GO TO "Final" subsection → (E)		
				[Negative is related not persuasive.] < 90%	GO TO "Final" s	ubsecti	on → (C)		
			and r	≤ [Negative is related not persuasive.]	GO TO "Not Sign	nificant	Finding Option" subsection		
	Tech	inical Chang	ge Recomi	mendations					
	Origi field	S.			one full sentence	are rec	uired in "FROM" and "TO"		
		FROM:	Section/Pa	aragraph XXX					
		TO: Se	ction/Paragraph xxx						
	echni	Justific	ation (<mark>lf n</mark>	necessary)					
,	cal Cr	FROM:	Section/Pa	aragraph XXX					
Address by Technical	Technical Changes	TO: Se	ction/Para	graph xxx					
by Tec		Justific	ation (<mark>lf n</mark>	ecessary)					
hnica	Moti	on	١	Negative is addressed by the technical change(s).					
C	Moti	on by/2 nd by	/ N	Name (Company)/Name (Company)					
hange Option	Disc	ussion							
စ္မ			>	(X Y-XX N; Motion pass	sed/failed.				
tion		Result of V		2/3 ≤ [Negative is a change(s).]	ddressed by the te	chnical	GO TO "Incorporation of the Technical Change" subsection		
		•	ŕ	[Negative is not add change(s).] < 2/3	lressed by the tech	nical	GO TO "Final" subsection → (E)		
	_	Motion		o incorporate the tech	nical change(s).				
	nco Tec	Motion by/	-	Name (Company)/Name	(Company)				
	rpora hnica	Discussion	1						
	ation		>	XX Y-XX N; Motion pass	sed/failed.				
	ncorporation of the Technical Change	Result o		90% ≤ [Agree to inc	orporate.]		GO TO "Final" subsection → (F)		
	ค	(cneck	one)	[Disagree to incorpo	orate.]>10%		GO TO "Final" subsection → (E)		

z	This option can be used only "if the TC Chapter finds a Negative not persuasive by a vote equagreater than 90% of the persons voting on the action". (<i>Regulations</i> ¶ 9.6.4.4.2)									
Not Sig	Use of "Not	X	It is mutually ag significant".	greed upon to term the Negative "not	GO TO "Final" subsection → (D)					
Significant	significant finding option" (check one)		It is mutually aq	greed upon to term the Negative	GO TO "Final" subsection → (C)					
t Fir			Whether or not	the Negative is "not significant" is decide	ded by a vote.					
Finding	Motion	The	The Negative is "not significant".							
ng Op	Motion by/ 2 nd by	Nan	ne (Company)/N	lame (Company)						
Option	Vote		XX Y-XX N; Mo	otion passed with simple majority	GO TO "Final" subsection → (D)					
	vote		XX Y-XX N; Mo	otion failed with simple majority	GO TO "Final" subsection → (C)					
			(A)	Withdrawn (counted under h in dis	sposition)					
			(B)	Not related (counted under i in dis	position)					
	(check if		(C)	Related and not persuasive (signific	ant)					
Fina	applicable)	X	(D)	Not significant (counted under j in	disposition)					
<u>a</u>			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS					
			(F)	Addressed by technical change (co	unted under k disposition)					
	(check if applicable)		Comment gene	erated. See Section V-(ii) Comment #	X.					

Check only when the Document has not been failed.

1	Original	Original number (#) of Negatives (g)								
0	Number	of N	egatives withdrawn	(h)						
0	Number of Negatives found not related (i)									
1	Number of Negatives found not significant (j)									
0			egatives addressed by technic t significant)	al change (Negative	(k)					
	Final		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 Approval Conditions	ne denominator of § VI. Check					
			Reject without a Negative	Not Valid						

Voting Interest Reject 3 (Voting Interest Name: Applied Materials) Voter Reject 1 (Voter: Edward Karl / Applied Materials)

1109	ative i								
	Referenced	*TF/	TC Chapter to fill	in, including text in the ballot if nec	essary.				
	Section/ Paragraph	19.1	.3						
Negative	Negative Text	"Structurally dependent modules are modules which transfer the forces to each other They should be assessed together." With AMAT's highly configurable cluster tools, this methodology would make the # ochamber combinations requiring analysis impractical. Proposed Solution: Replace entire sentence with either, "Modules having their own seismic tie-downs are separately analyzed." or "Structurally dependent modules are modules which transfer the forces to each other It is recommended that they be assessed together where practical."							
TF	input (optional)	20 20		are the dissessed to gether where p					
	Withdrawal		No Negative withou	drawal made by Voter.	GO TO "Related" subsection				
	(check one)		Withdrawal docun	GO TO "Final" subsection → (A)					
	Motion and	X	'Related' is mutua	lly agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection				
	Reason (check one)		Negative is not re	ated. (Needs ≥2/3 votes to pass.)					
			Reason XXX	X					
Reli	Motion by/ 2 nd by	Name (Company)/Name (Company)							
Related	Discussion								
		XX Y-XX N; Motion passed/failed.							
	Result of Vote (check one)		[Negative is not re	elated.] < 2/3	GO TO "Persuasive" subsection				
	,		2/3 ≤ [Negative is	not related.]	GO TO "Final" subsection → (B)				
	Motion and	X	Negative is related	d and persuasive. (Needs >1/3 votes t	o pass.)				
Pe	Reason (check one)		Negative is related	d and not persuasive. (Needs ≥2/3 vot	es to pass.)				
Persuasive	(check one)		Reason It is disproportionally big burden without merit if such modules he own seismic tie-downs.						
ive	Motion by/ 2 nd by	Nao	Naokatsu Nishiguchi (SCREEN) / Hidetoshi Sakura (Advisor)						
	Discussion								
	Result of Vote	7 Y-	7 Y-0 N; Motion passed						

•	Ī											
					e is related and ve.] > 1/3	Is a technical change recommended?	Х	Y	GO TO "Address by Technical Change Option" subsection			
			1 1-	_	tive is related and not asive.] < 2/3 N GO TO "Final" subsect to the control of							
			2/3	≤ [Ne	[Negative is related of persuasive.] < 90% GO TO "Final" subsection → (C)							
			and	d not p	o ≤ [Negative is related not persuasive.] GO TO "Not Significant Finding Option" subsection							
	Tech	nical Chang	ge Recor	mmer	ndations							
	Origi fields		/paragra	ph nu	ımber and at least	one full sentence	are r	equ	ired in "FROM" and "TO"			
					graph 19.1.3							
						re modules which	trans	fer	the forces to each other. They			
			otion/Da		ether. ph 19.1.3 and Exce	ntion /Add Ever	1:an	inet	ofton 40.4.2\			
		19.1.3 9							the forces to each other. They			
	l⊸	1 should	be assess	ed tog	gether.				Ĭ			
	ech				ules that can transfer the forces to each other may be separately analyzed, if each							
	l nic	of them has its own seismic tie-downs. Justification (If necessary)										
	al (Justine	zation (ii	Hece	:55ai y)							
Αd	Cha	FROM:	Section/	/Parag	graph XXX							
dre	Technical Changes											
SS	Š	TO: 90	ction/Pa	ragra	nh vvv							
by.		2 10.36	Clionira	iagia	pii xxx							
Tec		1 (10)										
hn:		Justific	cation (If	nece	ssary)							
cal												
Address by Technical Cha	Motic			Negative is addressed by the technical change(s).								
ınge	Motic	on by/2 nd by	У	Naokatsu Nishiguchi (SCREEN) / Hidetoshi Sakura (Advisor)								
စို	Discu	ussion										
Option				7 Y-(O N; Motion passed							
] 3					•	ddrossod by the to	chnic	· al	GO TO "Incorporation of the			
		Result of V			2/3 ≤ [Negative is a change(s).]	daressed by the te	CHILIC	aı	Technical Change"			
		(check on	ie)		[Negative is not add	raccad by the tech	nicol		subsection GO TO "Final" subsection			
					change(s).] < 2/3	ressed by the tech	IIIICai		→ (E)			
	_	Motion		To ir	ncorporate the tech	nical change(s).						
	Inco	Motion by/	2 nd by	Nish	igushi (Company)/ F	lidetoshi Sakura (A	Adviso	or)				
	hni	Discussion										
	ration cal			7 Y-(O N ; Motion passed							
	ncorporation of the Technical Change	Result o	of Vote		90% ≤ [Agree to inc	orporate.]			GO TO "Final" subsection			
	Result of Vote (check one)				[Disagree to incorpo	· ·			→ (F) GO TO "Final" subsection			
									→ (E)			

z				e TC Chapter finds a Negative not per ting on the action". (<i>Regulations</i> ¶ 9.	
Not Sig	Use of "Not		It is mutually ag significant".	greed upon to term the Negative "not	GO TO "Final" subsection → (D)
Significant	significant finding option" (check one)		It is mutually ag "significant".	greed upon to term the Negative	GO TO "Final" subsection → (C)
			Whether or not	the Negative is "not significant" is decide	ded by a vote.
Finding	Motion	The	Negative is "no	t significant".	
ng Op	Motion by/ 2 nd by	Nan	ne (Company)/N	lame (Company)	
Option	Vote		XX Y-XX N; Mc	otion passed with simple majority	GO TO "Final" subsection → (D)
			XX Y-XX N; Mo	otion failed with simple majority	GO TO "Final" subsection → (C)
			(A)	Withdrawn (counted under h in dis	sposition)
			(B)	Not related (counted under i in dis	position)
	(check if		(C)	Related and not persuasive (signific	ant)
Fina	applicable)		(D)	Not significant (counted under j in	disposition)
<u>a</u>			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		Χ	(F)	Addressed by technical change (co	unted under k disposition)
	(check if applicable)		Comment gene	erated. See Section V-(ii) Comment # 2	Χ.

	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary. 19.4								
Negative	Negative Text	"The locations of the tie-ins, attachments, or seismic anchorage points intensupplier to limit equipment motion during a seismic event should be clearly by direct labelling on the equipment." Applied Materials believes that identification of anchorage points in installad documentation should also be acceptable. Proposed Solution: "The locations of the tie-ins, attachments, or seismic anchorage points intensupplier to limit equipment motion during a seismic event should be clearly by either direct labelling on the equipment or through documentation."								
TFi	nput (optional)									
	Withdrawal	х	No Negative withdrawal made by Voter.	GO TO "Related" subsection						
	(check one)		Withdrawal document received by Standards staff on MM/DD/YYYY.	GO TO "Final" subsection → (A)						
Relat ed	Motion and Reason	Х	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection						
at	(check one)		Negative is not related. (Needs ≥2/3 votes to pass.)							

				Reason	XXXX						
	M	otio 2 nd	n by/ by	Name (Company))/Name (Compa	any)					
	Di	scu	ssion								
				XX Y-XX N; Motio	n passed/failed						
			of Vote	[Negative is r	not related.] < 2/		GO TO "Persuasive" subsection				
				2/3 ≤ [Negativ	ve is not related	.]		GO TO "Final" subsection → (B)			
				X Negative is re	elated and persu	uasive. (Needs >1	/3 votes	to pass.)			
	i	Rea	n and son ‹ one)	Negative is re	elated and not p	ersuasive. (Needs	s ≥2/3 vot	tes to pass.)			
	`		,	Reason		supplier-intended cumentation is too		ge points to be identified by			
٦	M	otio 2 nd	n by/ by	Naokatsu Nishiguc	hi (SCREEN) / I	Hidetoshi Sakura (Advisor)				
Persuasive	Di	scu	ssion	7 Y -0 N ; Motion p							
sive	(ch	hecl	of Vote cone)	persuasive.] ← 2/3 ≤ [Negative and not persue) 90% ≤ [Negative and not persue)	elated and not < 2/3 ve is related uasive.] < 90% tive is related uasive.]	Is a technical change recommended? (check one) GO TO "Final" s GO TO "Not Sig	N	GO TO "Address by Technical Change Option" subsection GO TO "Final" subsection → (E) on → (C) Finding Option" subsection			
Address by Technical Change Option	Origi field:	inal	FROM: 19.4 The equipme equipme TO: Se 19.4 The	Section/Paragrap e locations of the tient motion during ent. ction/Paragraph 1 ne locations of the tient motion during	h 19.4 ie-ins, attachme a seismic even 9.4 ie-ins, attachme a seismic even	nts, or anchorage at should be clear ents, or anchorage t should be clearly	points in	ntended by the supplier to limit fied by direct labelling on the ntended by the supplier to limit ed by either direct labelling on			
Change Option	Technical Changes		Justific	nipment or through documentation. cation (If necessary) Section/Paragraph XXX							
	TO: Section/Paragraph xxx										

		Justific	cation (I	f nec	essary)					
-	Motio	n		Neg	jative is a	ddressed by the technical change(s).				
=	Motio	n by/2 nd by	/	Nao	Naokatsu Nishiguchi (SCREEN) / Hidetoshi Sakura (Advisor)					
•	Discu	ssion								
-				7 Y-	7 Y-0 N; Motion passed					
		Result of V (check on		X		egative is addressed by the technical	GO TO "Incorporation of the Technical Change" subsection			
		•	•		[Negative change(s	e is not addressed by the technical s).] < 2/3	GO TO "Final" subsection → (E)			
		Motion		To i	incorpora	te the technical change(s).				
	nco Tec	Motion by/	2 nd by	Nish	niguchi (C	company)/ Hidetoshi Sakura (Advisor)				
	Incorporation of the Technical Change	Discussion	Discussion							
				7 Y-	-0 N ; Moti	on passed				
ı	າກ of tl ວີhang	Result o		X		Agree to incorporate.]	GO TO "Final" subsection → (F)			
	he e	(check	one)		[Disagre	e to incorporate.]>10%	GO TO "Final" subsection → (E)			
					ually agre	eed upon to term the Negative "not	GO TO "Final" subsection → (D)			
Not Significant Finding	Use of "Not significant finding option" (check one)		It is		ually agre	eed upon to term the Negative	GO TO "Final" subsection → (C)			
<u>∓</u>	(,	WI	Whether or not the Negative is "not significant" is decided by a vote.						
ndii	N	<i>l</i> lotion	The Ne	egative is "not significant".						
_	Mo	otion by/ 2 nd by	Name (Comp	Company)/Name (Company)					
Option		Vote	XX	(Y-X)	N; Motic	on passed with simple majority	GO TO "Final" subsection → (D)			
		vote	XX	(Y-X)	≺ N ; Motic	on failed with simple majority	GO TO "Final" subsection → (C)			
				((A)	Withdrawn (counted under h in disp	oosition)			
				(В)	Not related (counted under i in disp	oosition)			
	(0	heck if		(C)	Related and not persuasive (significa	int)			
Final	ap	plicable)		(D)	Not significant (counted under j in d	lisposition)			
<u>a</u>					(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS			
	1-	hools if	Х	((F)	Addressed by technical change (cou	nted under k disposition)			
	(check if applicable)			mme	nt genera	ted. See Section V-(ii) Comment # X				

Check only when the Document has not been failed.

2	Original	al number (#) of Negatives (g)										
0	Number	umber of Negatives withdrawn (h)										
0	Number	Number of Negatives found not related (i)										
0	Number	Number of Negatives found not significant (j)										
2			egatives addressed by technic ot significant)	al change (Negative	(k)							
		x	g - (h + i + j + k) = 0	Reject is Not Valid and is not included in the denominator of § VI. Approval Conditions Check								
	Final		g - (h + i +j + k) >0	ne denominator of § VI. Check								
	Reject without a Negative Not Valid											

Voting Interest Reject 4 (Voting Interest Name: Lam Research) Voter Reject 1 (Voter: Sean Larsen / Lam Research)

1109	ative 1				_					
	Referenced Section/		•	o fill in, including text in the ballot if nec	essary.					
	Paragraph	19.1	19.1 & 19.1.1							
Negative	Negative Text	risk SEN app me. cent	There is evaluation criteria that "no parts will fail or yield such that there would be a risk of injury to personnel or adverse environmental impact of Medium or higher per SEMI S10. However, there is no compliance criteria for how to evaluate the stresses applied to a part within the system other than the subjective "it looks strong enough to me." Per 19.1.6, the indicated forces should be considered acting on the equipment's center of gravity, which could be an empty space in the middle of the equipment.							
		Cla	gestion / Just rify what is th luation of dan	e intended compliance criteria beyond a	ccessible for visual					
TF	input (optional)									
	Withdrawal	х	No Negative	withdrawal made by Voter.	GO TO "Related" subsection					
	(check one)		Withdrawal d MM/DD/YYY	ocument received by Standards staff on Y.	GO TO "Final" subsection → (A)					
	Motion and Reason	Χ	'Related' is m	utually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection					
			Negative is n	ot related. (Needs ≥2/3 votes to pass.)						
	(check one)		Reason	xxxx						
Rela	Motion by/ 2 nd by	Nan	ne (Company))/Name (Company)						
Related	Discussion									
		XX '	Y-XX N; Motio	n passed/failed.						
	Result of Vote (check one)		[Negative is r	not related.] < 2/3	GO TO "Persuasive" subsection					
	(1 1111 2112)		2/3 ≤ [Negativ	ve is not related.]	GO TO "Final" subsection → (B)					
Persuasi ve	Motion and Reason		Negative is re	elated and persuasive. (Needs >1/3 votes	to pass.)					
lasi	(check one)	X	Negative is re	elated and not persuasive. (Needs ≥2/3 vot	es to pass.)					

	Motion by/		Re	eason	that if there is no component exactly at the COG then there movement of the equipment. TF also disagree with the submitter's assertion that there is no criteria. The text directs at consideration of whether certain typinight fail. During S2 assessment, demonstrating one has consideration will drive the level of action the TF thought was approximately approximately approximately assessment.						
	M	otio 2 nd	on by/ by	Naokat	su Nis	higuchi (SCREEN) /	Hidetoshi Sakura (Advis	or)		
	Discussion										
				7 Y-0 N	; Mot	ion passed	1	1			
	Result of Vote			pe	rsuas	ve is related and ive.] > 1/3	Is a technical change recommended?		Y	GO TO "Address by Technical Change Option" subsection	
	(check one)		ре	rsuas	re is related and not ive.] < 2/3	(check one)		N	GO TO "Final" subsection → (E)		
					-	egative is related persuasive.] < 90%	GO TO "Final" s	subse	ctio	n → (C)	
						Negative is related persuasive.]	GO TO "Not Sig	nifica	ant F	Finding Option" subsection	
		nal	section	/paragra	aph n		one full sentence	e are i	requ	uired in "FROM" and "TO"	
,				Section/Paragraph XXX ction/Paragraph xxx							
Addr		1	TO: Se	ction/Pa	aragra	aph xxx					
iress	Technical		Justific	eation (If necessary)							
by Tecl	nical Ch		FROM:	Section	/Para	graph XXX					
າnical C	Changes	2	TO: Se	ction/Pa	aragra	aph xxx					
by Technical Change Option			Justific	ation (I	f nec	essary)					
Opti	Moti	on.			Neg	gative is addressed b	y the technical cha	ange(s).		
on	Moti	Motion by/2 nd by				me (Company)/Name	e (Company)				
	Disc	uss	ion								
					XX	Y-XX N; Motion pas	sed/failed.				
			sult of V heck on			2/3 ≤ [Negative is a change(s).]	addressed by the te	echnic	al	GO TO "Incorporation of the Technical Change" subsection	

						[Negative change(s	e is not addressed by the technical	GO TO "Final" subsection → (E)	
		Motion				<u> </u>	te the technical change(s).	/ (-)	
	Motion by/2 nd			ру	Nam	e (Compa	any)/Name (Company)		
	Incorporation of the Technical Change	Discussion	1						
	rati ical				<u> </u>	/ VV N: N	Motion passed/failed.		
	on o			-				GO TO "Final" subsection	
	of th	Result o				90% ≤ [A	gree to incorporate.]	→ (F)	
	າe e	(check one)				[Disagree	e to incorporate.]>10%	GO TO "Final" subsection → (E)	
							C Chapter finds a Negative not pers		
_	great	er than 90%	6 OI 1	tne p	ersc	ons voting	g on the action". (<i>Regulations</i> ¶ 9.6	0.4.4.2)	
ot :			Х	It is mutually agreed upon to term the Negative "not				GO TO "Final" subsection	
Sigr		e of "Not		sign	ificar	nt".		→ (D) GO TO "Final" subsection	
) ific		gnificant ng option"					ed upon to term the Negative	→ (C)	
ant		eck one)			nifica				
₽							e Negative is "not significant" is decide	ed by a vote.	
l dir	ľ	Motion	The	Neg	ative	is "not si	gnificant".		
Not Significant Finding Option	Mo	otion by/ 2 nd by	Nan	ne (C	ompany)/Name (Company)				
tion		Vote		XX Y	Y-XX	N; Motio	n passed with simple majority	GO TO "Final" subsection → (D)	
		vote		XX Y	X Y-XX N; Motion failed with simple majority			GO TO "Final" subsection → (C)	
					(/	A)	Withdrawn (counted under h in disp	position)	
					(I	3)	Not related (counted under i in disp	oosition)	
	(0	check if			((C)	Related and not persuasive (significa	int)	
Final		applicable)			(I	O)	Not significant (counted under j in d	disposition)	
<u>a</u>						≣)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS	
					(1	F)	Addressed by technical change (cou	nted under k disposition)	
		check if plicable)		Com	nmer	nt generat	ted. See Section V-(ii) Comment # X		

7	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary. 19.1
Negative	Negative Text	Provide guidance on how risk assessment should be done for seismic events, particularly for the frequency aspect. Across the industry, it could reasonably be argued the frequency is a D or E, which would equate to a low risk for most concerns. In Japan lately, the frequency could be considered higher.
		Suggestion / Justification If consistent assessment is desired, then provide some guidance.
TF i	input (optional)	

										GO TO "Related"			
	Withd	raw	<i>ı</i> al	Х	No Negative w	vithdrawal mad	e by Voter.			subsection			
	(check	or	ne)		Withdrawal do MM/DD/YYYY		ed by Standards st	aff or	n	GO TO "Final" subsection → (A)			
	Mot	tion	n and	X	'Related' is mu	ıtually agreed ι	ıpon. <mark>(Needs no</mark> r	notio	n.)	GO TO "Persuasive" subsection			
	R	eas	son		Negative is no	t related. (Nee	ds ≥2/3 votes to p	oass.)				
	(check one)		one)		Reason	xxxx							
Related		tioi nd	n by/ by	Nan	Name (Company)/Name (Company)								
ıted	Dis	cus	ssion										
				XX	Y-XX N; Motion	passed/failed							
			of Vote		[Negative is no	ot related.] < 2/		GO TO "Persuasive" subsection					
	(571)		,		2/3 ≤ [Negative	e is not related		GO TO "Final" subsection → (B)					
	Mad	. :	n and		Negative is related and persuasive. (Needs >1/3 votes to pass.)								
	R	Motion and Reason (check one)			Negative is rela	ated and not p	ersuasive. (Needs	≥2/3	vot	tes to pass.)			
	,				Reason	Estimation of	"frequency" is not	withi	n th	e scope of SEMI S2.			
 _P	Mo 2	tioi nd	n by/ by	Nao	katsu Nishiguch	i (SCREEN) / I	Hidetoshi Sakura (A	Advis	or)				
ersi	Dis	cus	ssion										
Persuasive				7 Y-	0 N; Motion pa	ssed							
ve	Resu	ılt c	of Vote		[Negative is re persuasive.] >		Is a technical change recommended?		Y	GO TO "Address by Technical Change Option" subsection			
			one)		[Negative is re persuasive.] <	2/3	(check one)		N	GO TO "Final" subsection → (E)			
					2/3 ≤ [Negative and not persua		GO TO "Final" s	ubse	ctio	on → (C)			
				X	90% ≤ [Negativand not persua	asive.]	ant F	Finding Option" subsection					
	Techn	nica	I Chang	ge R	ecommendatio	ons							
Address by Technical Change Option	Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.									uired in "FROM" and "TO"			
s by . 1ge C			FROM:	Sect	ion/Paragraph	XXX							
' Techni Option	Technical Changes	1	TO: Se	ction	n/Paragraph xx	XX							
ical	ical jes	f	Justific	atio	n (If necessary	<i>'</i>)							

			FROM:	Sect	ion/	Para	graph XX	ΚX					
		2	TO: Se	ctior	ction/Paragraph xxx								
			Justific	atio	ion (If necessary)								
			oustine	Jano	(nece	233ai y)						
	Motic	n				Negative is addressed by the technical change(s).							
	Motion by/2 nd by					Nan	ne (Comp	any)/Name (Company)					
	Discu	ıssi	ion										
ı						XX '	Y-XX N; N	Motion passed/failed.					
	Result of Vote (check one)						2/3 ≤ [No change(s	egative is addressed by the technical s).]	GO TO "Incorporation of the Technical Change" subsection				
		Ì		ĺ			[Negative change(s	e is not addressed by the technical s).] < 2/3	GO TO "Final" subsection → (E)				
	. =		Motion					te the technical change(s).					
	ncor Tech		otion by/2 nd by			Nan	ne (Comp	any)/Name (Company)					
	Incorporation of the Technical Change	DIS	cussion	n									
	tion al Ch					XX '	Y-XX N; N	Motion passed/failed.	00.70 (5) 18 1				
	of th	F	Result o				90% ≤ [<i>A</i>	Agree to incorporate.]	GO TO "Final" subsection → (F)				
	e er		(check one)				[Disagre	e to incorporate.]>10%	GO TO "Final" subsection → (E)				
								C Chapter finds a Negative not persig on the action". (<i>Regulations</i> ¶ 9.6	suasive by a vote equal to or				
Not Sigr	Us	e of	f "Not	X		mut		ed upon to term the Negative "not	GO TO "Final" subsection → (D)				
	findi	ng (icant option" (one)			mut nifica		eed upon to term the Negative	GO TO "Final" subsection → (C)				
าt Fi	(0				Wh	ethei	or not th	e Negative is "not significant" is decide	ed by a vote.				
ndin			ion	The	Neg	egative is "not significant".							
ificant Finding Option		otio 2 nd	n by/ by	Nan	ne (C	Comp	any)/Nar	ne (Company)					
tion		Vo	to		XX	Y-X>	(N ; Motio	on passed with simple majority	GO TO "Final" subsection → (D)				
					XX	Y-X>	N; Motio	on failed with simple majority	GO TO "Final" subsection → (C)				
						(A)	Withdrawn (counted under h in disp	•				
							B)	Not related (counted under i in disp	,				
Final			ck if				C)	Related and not persuasive (significa	,				
<u>a</u>	ар	plic	able)	Х		(D)	Not significant (counted under j in d	isposition)				
							E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS				
							F)	Addressed by technical change (cou	nted under k disposition)				

	(check if applicable)	Comment generated. See Section V-(ii) Comment # X.
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Referenced Section/ Paragraph 19.1.2 & 19.1.3	neg	ative 3										
Paragraph 19.1.2 & 19.1.3					o fill in, includi	ng text in the bal	lot if	nec	essary.			
Transferred in at least one direction.	_	Paragraph	19.1	.2 & 19.1.3								
Withdrawal (check one)	Negative	Negative Text	gasl proj tran Sug	asket between them to isolate any vibrations, but have alignment pins to assist with roper alignment for wafer hand-off? These would provide a means for forces to be ansferred in at least one direction. uggestion / Justification								
Withdrawal (check one) Withdrawal document received by Standards staff on MMDD/YYYY. Withdrawal document received by Standards staff on MMDD/YYYY. Withdrawal document received by Standards staff on MMDD/YYYY. Withdrawal document received by Standards staff on MMDD/YYYYY. Withdrawal made by Vitalards staff on MMDD/YYYYY. Withdrawal made by Call The Withdrawal made b	TF	input (optional)				, , , , , , , , , , , , , , , , , , ,						
Motion and Reason (check one) Result of Vote (check one) Reason		Withdrawal	Х	No Negative	withdrawal mad	e by Voter.						
Motion and Reason (check one) Reason Negative is not related. (Needs ≥2/3 votes to pass.) Reason XXXX Name (Company)/Name (Company) Discussion XX Y-XX N; Motion passed/failed. Result of Vote (check one) Z/3 ≤ [Negative is not related.] < Z/3 GO TO "Persuasive" subsection GO TO "Final" subsection YX Negative is related and persuasive. (Needs >1/3 votes to pass.) Negative is related and not persuasive. (Needs ≥2/3 votes to pass.) Motion by/ 2 nd by Naokatsu Nishiguchi (SCREEN) / Hidetoshi Sakura (Advisor) Ty-0 N; Motion passed Negative is related and persuasive. Sakura (Advisor) Ty-0 N; Motion passed Negative is related and persuasive. Negative is related and persuasive. Needs ≥2/3 votes to pass.) Negative is related and persuasive. Sakura (Advisor) Ty-0 N; Motion passed Negative is related and persuasive. Sakura (Advisor) Ty-0 N; Motion passed Negative is related and persuasive. Negative is related and persuasi		(check one)				ed by Standards st	taff or	1				
Reason (check one) Reason		Motion and	X	'Related' is m	utually agreed ι	upon. (Needs no r	notio	n.)				
Reason XXXX Motion by/ 2 nd by Name (Company)/Name (Company) Discussion XX Y-XX N; Motion passed/failed. Result of Vote (check one) 2/3 ≤ [Negative is not related.] < 2/3 Solution Solution		Reason		Negative is no	ot related. (Nee	ds ≥2/3 votes to p	oass.))				
Post				Reason	XXXX							
Result of Vote (check one)	Rel	Motion by/ 2 nd by	Nan	Name (Company)/Name (Company)								
Result of Vote (check one)	ated	Discussion										
Result of Vote (check one)			XX Y -XX N ; Motion passed/failed.									
Person A				[Negative is n	ot related.] < 2/							
Motion and Reason (check one) Reason Negative is related and not persuasive. (Needs ≥2/3 votes to pass.) Reason XXXX		(oneon one)		2/3 ≤ [Negativ	e is not related	.]						
Reason (check one) Reason		Mation and	X	Negative is re	elated and persu	asive. (Needs >1/	/3 vot	es t	to pass.)			
Reason XXXX Motion by/ 2 nd by Naokatsu Nishiguchi (SCREEN) / Hidetoshi Sakura (Advisor) Discussion 7 Y-0 N; Motion passed x [Negative is related and persuasive.] > 1/3 [Negative is related and not [Negative is re		Reason		Negative is re	elated and not p	ersuasive. (Needs	≥2/3	vot	es to pass.)			
Result of Vote (check one) Ty-0 N; Motion passed X [Negative is related and persuasive.] > 1/3 Is a technical change recommended? [Negative is related and not N GO TO "Final" subsection N GO TO "Fin	_			Reason	XXXX							
Result of Vote (check one) Ty-0 N; Motion passed X [Negative is related and persuasive.] > 1/3 Is a technical change recommended? [Negative is related and not N GO TO "Final" subsection N GO TO "Fin	ersua	Motion by/ 2 nd by	Naol	katsu Nishiguc	hi (SCREEN) / I	Hidetoshi Sakura (A	Adviso	or)				
Result of Vote (check one) Ty-0 N; Motion passed X [Negative is related and persuasive.] > 1/3 Is a technical change recommended? [Negative is related and not N GO TO "Final" subsection N GO TO "Fin	ISiV	Discussion										
[Negative is related and not (check one) N GO TO "Final" subsection	Ф			[Negative is re	elated and	change	Х	Y	Technical Change Option"			
								N				

						egative is related	GO TO "Final" subsection	$an \rightarrow (C)$		
						persuasive.] < 90% Negative is related				
				and	not	persuasive.]	GO TO "Not Significant	Finding Option" subsection		
	Tech	nic	al Chang	je Recon	nme	ndations				
	Origi fields		section/	/paragra _l	oh n	umber and at least (one full sentence are req	uired in "FROM" and "TO"		
Address by Technical Change Option	Technical Changes	to seismic forces independently assessed independently. It after 19.1.2) It oseismic forces independently assessed independently. In modules is negligible level in may be considered structurally								
Cha	Motio	n	<u>I</u>		Neg	ative is addressed by	y the technical change(s).			
ınge	Motio	n k	oy/2 nd by	,	Nao	katsu Nishiguchi (SC	CREEN) / Hidetoshi Sakur	a (Advisor)		
Opti	Disc	ıss	ion							
음					7 Y-0 N; Motion passed					
		_	sult of V		X	2/3 ≤ [Negative is ac change(s).]	ddressed by the technical	GO TO "Incorporation of the Technical Change" subsection		
						[Negative is not add change(s).] < 2/3	ressed by the technical	GO TO "Final" subsection → (E)		
		Мс	tion		To i	ncorporate the tech	nical change(s).			
	Inco Tec	Mc	tion by/	2 nd by	Nishiguchi (Company)/ Hidetoshi Sakura (Advisor)					
	hnic	Dis	scussior	1						
	atio				7 Y-	0 N ; Motion passed				
	ncorporation of the Technical Change		Result o	f Vote	X	90% ≤ [Agree to inco	orporate.]	GO TO "Final" subsection → (F)		
	the ge		(check	one)		[Disagree to incorpo	rate.]>10%	GO TO "Final" subsection → (E)		
Signit t Find							finds a Negative not persection". (<i>Regulations</i> ¶ 9.6	suasive by a vote equal to or		
ignifican Finding			f "Not ficant		muti nifica		term the Negative "not	GO TO "Final" subsection → (D)		

	finding option" (check one)		It is mutually a "significant".	greed upon to term the Negative	GO TO "Final" subsection → (C)
			Whether or not	t the Negative is "not significant" is decid	ed by a vote.
	Motion	The	Negative is "no	t significant".	
	Motion by/ 2 nd by				
	Vote		XX Y-XX N; Mo	otion passed with simple majority	GO TO "Final" subsection → (D)
	vote		XX Y-XX N; Mo	otion failed with simple majority	GO TO "Final" subsection → (C)
			(A)	Withdrawn (counted under h in dis	position)
			(B)	Not related (counted under i in disp	position)
	(check if		(C)	Related and not persuasive (signification	ant)
Fina	applicable)		(D)	Not significant (counted under j in c	disposition)
<u>a</u>			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		Х	(F)	Addressed by technical change (cou	inted under k disposition)
	(check if applicable)		Comment gene	erated. See Section V-(ii) Comment # >	· · · · · · · · · · · · · · · · · · ·

	Referenced	*TF	TC Chapter to	o fill in, including text in the ballot if nec	essary.							
	Section/ Paragraph	Whole ballot										
Negative	Negative Text	out the effe for A& Sug	While the titles indicate that the intention is a delayed revision and an e-mail was sen out indicating the intent was delayed revision and this was a ballot preparation error the rest of the ballot if formatted as an immediate effectivity ballot. With no effectivity date given in what we are reviewing there appears to be significant ground for voter confusion and it is not clear if the ballot should be allowed to proceed to A&R. Suggestion / Justification Fail the ballot and reballot with a properly formatted document.									
TFi	nput (optional)											
	Withdrawal		No Negative	withdrawal made by Voter.	GO TO "Related" subsection							
	(check one)		Withdrawal d MM/DD/YYY	ocument received by Standards staff on Y.	GO TO "Final" subsection → (A)							
	Motion and	X	'Related' is m	nutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection							
	Reason		Negative is n	ot related. (Needs ≥2/3 votes to pass.)								
Rel	(check one)		Reason	xxxx								
Related	Motion by/ 2 nd by	Nan	ne (Company))/Name (Company)								
	Discussion											
	Result of Vote	XX	Y-XX N; Motio	n passed/failed.								

	(ch	neck one)	[Negative is	not related.] < 2/	GO TO "Persuasive" subsection					
			2/3 ≤ [Negat	ive is not related	GO TO "Final" subsection → (B)					
			Negative is related and persuasive. (Needs >1/3 votes to pass.)							
			X Negative is i	related and not p	ersuasive. (Needs	≥2/3 votes to pass.)				
Per	F	otion and Reason neck one)	Reason	Not only title but also the second NOTICE following the title clearly indicates material that has been not immediate effective. Also the term "Delayed Revision Sections" is missing in the material shown as Line Item effective date are shown in the title of Line Item. Both combined, it is reasonable to assume intention of balloting this document as Delayed Revision can be correctly understood by voters. This was formatting error by responsible SEMI staff. It is not reasonable to punish task force for a shortcoming of staff.						
Persuasive	M	otion by/ 2 nd by	Naokatsu Nishigu	chi (SCREEN) /]	Hidetoshi Sakura (A	Advisor)				
ive		scussion								
		sult of Vote neck one)	[Negative is persuasive.] [Negative is persuasive.] 2/3 ≤ [Negative is persuasive.] 2/3 ≤ [Negative is persuasive.]	[Negative is related and persuasive.] > 1/3 [Negative is related and not persuasive.] < 2/3 2/3 ≤ [Negative is related and not persuasive.] < 90% x 90% ≤ [Negative is related and not persuasive.] < 90% and not persuasive.]		Y GO TO "Address by Technical Change Option" subsection N GO TO "Final" subsection → (E) ubsection → (C) nificant Finding Option" subsection				
Address by Technical Change Option		FROM: TO: Se Justific FROM: TO: Se	Section/Paragraph cation (If necessare Section/Paragraph ction/Paragraph ction/Paragraph	oh XXX xxx ary) oh XXX	one full sentence	are required in "FROM" and "TO"				
Option		Justific	cation (If necessa	y <i>)</i>						
Option	Motic		·		y the technical cha	nge(s)				

	Discu	ussion								
					XX	Y-XX N; N	Motion passed/failed.			
		ote		2/3 ≤ [Negative is addressed by the technical change(s).]			GO TO "Incorporation of the Technical Change" subsection			
						[Negative change(s	e is not addressed by the technical s).] < 2/3	GO TO "Final" subsection → (E)		
		Motion			To incorporate the technical change(s).					
	Inco Tec	Motion by/	2 nd k	ру	Nam	ne (Comp	any)/Name (Company)			
	rpora	Discussion	n							
	atio				XX	Y-XX N; N	Motion passed/failed.			
	ncorporation of the Technical Change	Result o	_	-		90% ≤ [A	gree to incorporate.]	GO TO "Final" subsection → (F)		
	he e	(check	one)		[Disagree	e to incorporate.]>10%	GO TO "Final" subsection → (E)		
Not Significant Finding	Use of "Not significant finding option"			sigr It is	It is mutually agreed upon to term the Negative "not significant". It is mutually agreed upon to term the Negative			GO TO "Final" subsection → (D) GO TO "Final" subsection → (C)		
ant I		(check one)			"significant". Whether or not the Negative is "not significant" is decid					
Ξij	<u> </u>	Motion	The							
Jing		otion by/	1110	NOG	gative is "not significant".					
	IVIC	2 nd by	Nan	ne (C	Company)/Name (Company)					
Option		Vote		XX	Y-XX	(N; Motio	n passed with simple majority	GO TO "Final" subsection → (D)		
		vole		XX	XX Y-XX N; Motion failed with simple majority			GO TO "Final" subsection → (C)		
					(/	A)	Withdrawn (counted under h in disp	oosition)		
					(1	В)	Not related (counted under i in disp	osition)		
	(0	check if			(C)	Related and not persuasive (significa	nt)		
Final		plicable)	X		(1	D)	Not significant (counted under j in d	isposition)		
<u>a</u>						E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS		
					(F)	Addressed by technical change (cou	nted under k disposition)		
	(check if applicable)				omment generated. See Section V-(ii) Comment # X.					

Check only when the Document has not been failed.

2	4	Original number (#) of Negatives	(g)
(0	Number of Negatives withdrawn	(h)

	0	Number of Negatives found not related (i)									
	3	Number	of N	egatives found not significant		(j)					
	1	Number of Negatives addressed by technical change (Negative becomes not significant) (k)									
	Final		х	$\mathbf{g} - (\mathbf{h} + \mathbf{i} + \mathbf{j} + \mathbf{k}) = 0$	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						

IV. Other Technical Issues

Note: TC Chapter may choose to address a technical issue that is not part of a Negative received on a Letter Ballot (i.e., a Comment or a reason not addressed by a Vote response) by handling it as a Negative and finding it related and technically persuasive. The TC Chapter may then fail the Document or address such technical issue by using the procedure defined in *Regulations* § 9.6.4.3 to make a technical change to the Document. (*Regulations* ¶ 9.6.2.4.5)

	, ,		mo otoletimo)							
	Origin		F/TC Chapter to chapter to chapter 3 (Hicks,	hoose Julie/ Edwards) - Comment 1						
	Referenced	*TF	TC Chapter to fil	Il in including text in the ballot as approp	oriate.					
Tec	Section/ Paragraph	19.	1.2, 19.1.3							
hnica			riginal Comment t d suggestion, sho	ext, if applicable, and problem statemer ould be copied.	nt, including justification					
Technical Issue	Reason	ind ass 19. oth I tl	19.1.2 Structurally independent modules are modules which react to seismic forces independently and do not transfer the forces to adjacent modules. They should be assessed independently. 19.1.3 Structurally dependent modules are modules which transfer the forces to each other. They should be assessed together. I think 19.1.2 relates to pumps – but 19.1.3 could be interpreted as relating to semi systems – so we need some clarification on what "assessed together" means.							
Har	dle technical issu	ıe ide	entified above as	a Negative.						
		X	'Related' is mutua	ally agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection					
	Motion and Reason (check one)			elated and assigned to TF. <mark>(Needs ≥2/3 vo</mark>						
				elated and placed on agenda of current TC s ≥2/3 votes to pass.)	Chapter meeting as new					
			Reason	XXXX						
Related	Motion by/ 2nd by	Naı	Name (Company)/Name (Company)							
led 	Discussion									
		XX Y-XX N; Motion passed/failed.								
	Result of Vote		[Negative is not r	related.] <2/3	GO TO "Persuasive" subsection					
	(check one)			s not related] and assigned to TF.	GO TO "Final"					
				is not related] and placed on agenda of ter meeting as new business.	subsection → (B)					
		Х		ed and persuasive. (Needs >1/3 votes to p	pass.)					
Per	Motion and Reason		Negative is relate	ed and not persuasive. (Needs ≥2/3 votes	to pass.)					
Persuasive	(check one)		Reason	Without clarification, a pump would alwa accessed with main part of semiconductor to which the pump connect.						
	Motion by/ 2 nd by	Nac	okatsu Nishiguchi	(SCREEN) / Hidetoshi Sakura (Advisor)						
	Discussion									

1				7 V	O NI: NA	ation passed							
	Res	ult (of Vote	/ т -	[Negat	otion passed tive is related and asive.] > 1/3	Is a technical change	Х	Υ	GO TO "Address by Technical Change Option" subsection			
	(ch	ecl	cone)			tive is related and not asive.] < 2/3	recommended? (check one)		N	GO TO "Final" subsection → (E)			
						[Negative is related not persuasive.] < 90% GO TO "Final" subsection → (C)							
	Tech	nnic	al Chan	ge R	ecomm	endations	•						
	Orig field		section	/para	agraph	number and at least (one full sentence ar	e rec	uire	d in "FROM" and "TO"			
			19.1.3 8	Struc	ection/Paragraph 19.1.3 ructurally dependent modules are modules which transfer the forces to each other. They assessed together.								
						raph 19.1.3 and Excep							
		1					re modules which tr	ansfe	r the	e forces to each other. They			
			Except	should be assessed together. Exception: Modules that can transfer the forces to each other may be separately analyzed, if each									
	Tec		of then	them has its own seismic tie-downs									
,	Technical Changes		Justifi	catio	n (If ne	cessary)							
\ddr	al Cr					ragraph 19.1.2		,	,				
ess.	nang					the forces to adjacent				eismic forces independently sed independently.			
by .	Jes			TO: Section/Paragraph 19.1.2 and Exception (Add Exception just after 19.1.2) 19.1.2 Structurally independent modules are modules which react to seismic forces independently									
Tech			and do	and do not transfer the forces to adjacent modules. They should be assessed independently. Exception: When any force that can be transferred to adjacent modules is negligible level in									
nnica		2								dules is negligible level in be considered structurally			
Address by Technical Cha			indeper			The second secon							
			Justifi	catio	n (If ne	If necessary)							
nge Option													
)tior	Moti	on			Ne	Negative is addressed by the technical change(s).							
	Moti	on	by/2 nd b	у	N	Naokatsu Nishiguchi (SCREEN) / Hidetoshi Sakura (Advisor)							
	Disc	uss	sion										
					7	Y-0 N; Motion passed							
		_	sult of V		x	2/3 ≤ [Negative is ad change(s).]	dressed by the techn	ical		GO TO "Incorporation of the Technical Change"			
		(C	heck on	e)		[Negative is not addr	essed by the technic	al		subsection GO TO "Final"			
		M	otion		To	change(s).] < 2/3 o incorporate the tech	nical change(s).			subsection → (E)			
	ncoi		otion by	/2 nd l		o further motion is r		orati	on.				
	Incorporation o the Technical		scussio		Id	lentical motion was ap	proved for the techni	cal c	hang	e in response to Voting			
	ion o iical				111	nerest Reject 3, negati	Interest Reject 3, negative 1 and Voting Interest Reject 4, negative 3.						

XX Y-XX N; Motion passed/failed.

		Result o	of Vote 9		90% ≤ [A	agree to incorporate.]	GO TO "Final" subsection → (F)		
		(check	one	one) [Disagre		e to incorporate.] >10%	GO TO "Final" subsection → (E)		
		(check one)			(B)	Not related			
						(C)		Related and not persuasive	
Final	(ch			(E)		Related and persuasive and not addressed by technical change	DOCUMENT FAILS		
_				(F)		Addressed by technical change			
	•	(check if applicable)			nment genera	ated. See Section V-(ii) Comment # X.			

	Origin		TTC Chapter to commenter 3 (Hicks	hoose , Julie/ Edwards) - Comment 3						
	Referenced	*TF	/TC Chapter to fi	ll in including text in the ballot as approp	oriate.					
T _e	Section/ Paragraph	19.4	19.4							
chnic			iginal Comment I suggestion, sh	text, if applicable, and problem statemer ould be copied.	nt, including justification					
Technical Issue	Reason	sup by we opt	The locations of the tie-ins, attachments, or seismic anchorage points intended by the supplier to limit equipment motion during a seismic event should be clearly identified by direct labelling on the equipment. we currently do not do this – we put guidance in our manual. And because we provide options for front, side or rear seismic bolting on our pumps we would have to add 8 labels – is this really necessary to do?							
Hand	dle technical issu	ue ide	entified above as	a Negative.						
	Motion and Reason (check one)	Х	'Related' is mutu	GO TO "Persuasive" subsection						
				elated and assigned to TF. (Needs ≥2/3 vo	tes to pass.)					
				elated and placed on agenda of current TC s≥2/3 votes to pass.)	Chapter meeting as new					
			Reason	xxxx						
Related	Motion by/ 2nd by	Nar	me (Company)/Na	ime (Company)						
ted	Discussion									
		XX	Y-XX N; Motion p	passed/failed.						
	Result of Vote		[Negative is not	related.] <2/3	GO TO "Persuasive" subsection					
	(check one)			s not related] and assigned to TF.	GO TO "Final"					
			2/3 ≤ [Negative is not related] and placed on agenda of current TC Chapter meeting as new business.		subsection → (B)					
Persuasi ve	Motion and Reason	X	Negative is relat	ed and persuasive. (Needs >1/3 votes to p	pass.)					
asi	(check one)		Negative is relat	ed and not persuasive. (Needs ≥2/3 votes	to pass.)					

					Reaso	n		supplier-intended a documentation is to			e points to be identified by		
	Motion by/ 2 nd by				katsu N	atsu Nishiguchi (SCREEN) / Hidetoshi Sakura (Advisor)							
	Dis	scu	ssion										
				7 Y-	0 N ; M	otion pas	sed	Ī			T		
					persua	tive is rela asive.] > 1	/3	Is a technical change recommended?	Х	Y	GO TO "Address by Technical Change Option" subsection		
	(check one)			persua	tive is rela asive.] < 2 Negative		(check one)		N	GO TO "Final" subsection → (E)			
							is related sive.] < 90%	GO TO "Final" su	ubse	ctior	n → (C)		
Add	field		FROM: 19.4 Th equipm equipm TO: Se 19.4 Th equipm	Section in the local ment in t	cion/Parage ations of the control of	ragraph 1 of the tie-i during a graph 19.4 of the tie- during a	19.4 ins, attachmen seismic event ins, attachmen	ats, or anchorage po should be clearly ats, or anchorage po	ints i	intentified	d in "FROM" and "TO" ded by the supplier to limit by direct labelling on the ded by the supplier to limit by either direct labelling on		
ress by	Technical Changes			cation (If necessary)									
Address by Technical Ch		2			on/Paragraph xxx								
Change Option			Justifi	catio	n (If ne	cessary)							
ptio	Moti	on			N	Negative is addressed by the technical change(s).							
3	Moti	on	by/2 nd b	у	N	Naokatsu Nishiguchi (SCREEN) / Hidetoshi Sakura (Advisor)							
	Disc			-		White the state of the s							
	Result of Vote (check one)				7 x	[Negative is not addre					GO TO "Incorporation of the Technical Change" subsection GO TO "Final" subsection > (F)		
	T =	M	otion		T,		(s).] < 2/3 rate the techn	ical change(s)			subsection → (E)		
	Incor pora		otion by	/2 nd k		To incorporate the technical change(s). No further motion is required for incorporation.							
I			 y	^	, ,	- I di tiloi		quirou for moorpe	J. atil				

		Discussion				l motion was approved for the technica Reject 3, negative 2.	al change in response to Voting			
					XX Y-XX N; Motion passed/failed.					
		Result of Vote (check one)		•	90% ≤ [Agree to incorporate.]		GO TO "Final" subsection → (F)			
					[Disagree to incorporate.] >10%		GO TO "Final" subsection → (E)			
					(B)	Not related				
			(C)		Related and not persuasive	Related and not persuasive				
Final	(check one)			(E)		Related and persuasive and not addressed by technical change	DOCUMENT FAILS			
<u> </u>			X	(F)		Addressed by technical change				
	(check if applicable)		Com	ment ge	erated. See Section V-(ii) Comment # X.					

	Origin	*TF/TC Chapter to choose A reason not addressed by a Vote response							
Tech	Referenced Section/ Paragraph	*TF/TC Chapter to fill in including text in the ballot as appropriate. 19.2.3							
Technical Issue			iginal Comment I suggestion, sh	text, if applicable, and problem statemer ould be copied.	nt, including justification				
Issue	Reason	The It n	In this revision, the term "horizontal force(s)" is used throughout the text being revised. The term "horizontal load", however, was kept unchanged where text was not revised. It might cause confusions for the user of the Safety Guideline. To be consistent all the instances of "horizontal load" should be replaced with "horizontal force(s)".						
Hand	dle technical issu	ıe ide	entified above as	a Negative.					
		Х	'Related' is mutu	GO TO "Persuasive" subsection					
	Motion and		Negative is not related and assigned to TF. (Needs ≥2/3 votes to pass.)						
	Reason (check one)			related and placed on agenda of current TC Is ≥2/3 votes to pass.)	Chapter meeting as new				
			Reason	xxxx					
Related	Motion by/ 2nd by	Nar	me (Company)/Na						
ted	Discussion								
		XX Y-XX N; Motion passed/failed.							
	Result of Vote		[Negative is not	GO TO "Persuasive" subsection					
	(check one)		2/3 ≤ [Negative i	GO TO "Final"					
				is not related] and placed on agenda of oter meeting as new business.	subsection → (B)				
sua	Motion and Reason	X	Negative is related and persuasive. (Needs >1/3 votes to pass.)						

I	(ch	neck	cone)										
	Neg			gative is related and not persuasive. (Needs ≥2/3 votes to pass.)									
				asoı	ason Consistent use of a significant term is important.								
	Me	otio 2 nd	n by/ by	Naokat	su N	ishiguchi	i (SCREEN) /	Hidetoshi Sakura (A	Advis	or)			
	Dis	scu	ssion										
				7 Y-0 N	; Mc	otion pass	sed	1	ı	ı.			
			of Vote			ive is rela sive.] > 1		Is a technical change recommended?	Х	Υ	GO TO "Address by Technical Change Option" subsection		
	(ch	neck	cone)	pe	egative is related and not rsuasive.] < 2/3			(check one)		N	GO TO "Final" subsection → (E)		
	Tool		al Chan	and	3 ≤ [Negative is related d not persuasive.] < 90%			GO TO "Final" su	ıbse	ctior	n → (C)		
	reci	nnic	ai Chan	ge Reco	mme	endation	S						
	Orig field		section	/paragra	ph i	number a	and at least o	ne full sentence ar	e req	luire	d in "FROM" and "TO"		
						agraph 1							
					forizontal loads should be calculated independently on each of the X and Y axes, or on the produces the largest loads on the anchorage points.								
				ection/Paragraph 19.2.3									
		1	19.2.3 I	Horizontal forces should be calculated independently on each of the X and Y axes, or on the at produces the largest forces on the anchorage points.									
	ech			it produc cation (If			forces on the	anchorage points.					
Ad	nica		• diotiii	· · · · · · · · · · · · · · · · · · ·									
Address by Tech	Technical Changes		FROM:	Section	Section/Paragraph XXX								
by	iges	2	TO: Se	ection/Pa	ragi	agraph xxx							
Tec	"				u.g.								
hni			Justifi	cation (If	f necessary)								
cal -			Justini	oddon (ii nocessary)									
Chai	Moti	on			Negative is addressed by the technical change(s).								
nge (by/2 nd b	<u></u>	Nishiguchi (Company)/ Hidetoshi Sakura (Advisor)								
nical Change Option	Disc						<u> </u>	· · · · · · · · · · · · · · · · · · ·	•				
ă					7 `	Y-0 N; Mo	otion passed						
			sult of V		X	2/3 ≤ [N change(ressed by the techn	ical		GO TO "Incorporation of the Technical Change" subsection		
	, , , , , , , , , , , , , , , , , , , ,					[Negative is not addressed by the t change(s).] < 2/3			al		GO TO "Final" subsection → (E)		
	=	M	otion		To			ical change(s).			- \ /		
	icor o	M	otion by	/2 nd by	Ni	shiguchi ((Company)/ H	detoshi Sakura (Adv	visor))			
	Incorporation of the	Di	scussio	n				·					
	tion	L			<u>,</u>	V O NI: NA:	ation necessity						
I	Ī	Í			' '	t-∪N; MC	otion passed						

		Result of Vo		i vote		90% ≤ [Agree to incorporate.]		GO TO "Final" subsection → (F)	
		(check one)				[Disagree	e to incorporate.] >10%	GO TO "Final" subsection → (E)	
						(B)	Not related		
					(C)		Related and not persuasive		
Final	(ch	eck one)				(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS	
_			X	(F)		(F)	Addressed by technical change		
	(check if applicable)				mm	ent genera	ted. See Section V-(ii) Comment # X.		

V. Comments

V- (i) Voters' Comments
Commenter 1 (Swanson Scott / Intel Corporation) - Comment 1

n <u>me</u>	ente	r 1 (Swans	on Scott / Intel Corporation) - Comment 1							
	(19))								
Comment	whi Bui exp Wh	The coefficients should not be based on the 1997 UBC – see above. They should be based on whichever controls, the current ASCE 7-10 standard used in the US, the current Taiwan Building Code or the current Japan requirements. Suggest that each code should be explicitly calculated out using equivalent parameters so that it is clear which one controls. While there is discussion included in R4-3, the actual coefficients are not included and they are inconsistent with the selected ones (they are strength based and not working stress based).								
	Th	The TC Chapter agreed to do one of the following actions.								
	*No	o motion is re	equired in this step.							
Ą		Already add	ressed by Commenter #, Comment #							
Action	Х		ction was taken by the TC Chapter.							
			TF for more consideration.							
		New Busine								
		Editorial Cha	•							
		Options	Case 1: No vote in this section: To be included and voted on as a group in § VI. Editorial Changes							
		for editorial	Other than Those Voted on in § V.							
		change (check	Case 2: Voted in this section:							
		one)	Original section number and at least one full sentence are required in "FROM" and "TO" fields.							
		FROM: Sec	ction/Paragraph xxx							
Ed	1	1 TO: Section/Paragraph xxx								
Editorial (Justification (If necessary)								
Changes		FROM: Sec	ction/Paragraph xxx							
	2	TO: Section	n/Paragraph xxx							
		Justificatio	on (If necessary)							
М	otior	า	To approve above editorial change(s)							
M	otior	າ by/2 nd by	Name (Company)/Name (Company)							
D	iscus	ssion	XXXX							
٧	ote		XX Y-XX N; Motion passed/failed.							

This table is needed for each Comment. Commenter 1 (Swanson Scott / Intel Corporation) - Comment 2

	(R4	(R4-3.1.1)							
Comment	coe valu is c	The discussion of ASCE 7-10 uses an Rp of 1.5 which is no longer correct in the code. This coefficient should be 2.5. Also, it seems extreme to base these coefficients on near-field values that happen over a very small percentage of the US as a whole. I agree this approach is conservative and based on the previous version of the standard. However, it seems this could be listed as an exception. I realize that the US standard does not control.							
	The TC Chapter agreed to do one of the following actions.								
	*No motion is required in this step.								
A			ressed by Commenter #, Comment #						
Action	Х		ction was taken by the TC Chapter. ed in the discussion of ASCE 7-10.						
		Refer to the	TF for more consideration.						
		New Busine	ss						
		Editorial Change							
		Options	Case 1: No vote in this section:						
		for editorial	To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.						
		change (check	Case 2: Voted in this section:						
		one)	Original section number and at least one full sentence are required in "FROM" and "TO" fields.						
		FROM: Section/Paragraph xxx							
Ed	1	TO: Section/Paragraph xxx							
Editorial Cha		Justification (If necessary)							
hanges		FROM: Sec	etion/Paragraph xxx						
S	2	TO: Section	n/Paragraph xxx						
		Justification (If necessary)							
M	otior	1	To approve above editorial change(s)						
M	otior	n by/2 nd by	Name (Company)/Name (Company)						
Di	iscus	ssion	XXXX						
V	ote		XX Y-XX N; Motion passed/failed.						

Commenter 2 (Pochon, Stephan / TUVR) - Comment 1

Com	19.1, Note XXX I would suggest to add the word 'seismic' before forces to keep consistency with written in 10.1 and 10.2										
ment		I would suggest to add the word 'seismic' before forces to keep consistency with what is written in 19.1 and 19.2.									
	The	The TC Chapter agreed to do one of the following actions.									
	*No motion is required in this step.										
A		Already addressed by Commenter #, Comment #									
Action		No further action was taken by the TC Chapter.									
		Refer to th	e TF for more consideration.								
		New Busir	ness								
	Χ	Editorial C	hange								
		Options	Case 1: No vote in this section:								
		for editorial	To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.								
		change (check	Case 2: Voted in this section:								
		one)	Original section number and at least one full sentence are required in "FROM" and "TO" fields.								
		FROM: Section/Paragraph 19.1 NOTE XXX NOTE XXX: Section 19.2 contains criteria for anticipated forces.									
Ed	1	TO: Section/Paragraph 19.1 NOTE XXX NOTE XXX: Section 19.2 contains criteria for anticipated seismic forces.									
itorial (Justification (If necessary)									
Editorial Changes		FROM: S	ection/Paragraph xxx								
S	2	TO: Sect	on/Paragraph xxx								
		Justificat	ion (If necessary)								
M	otior	1	To approve above editorial change(s)								
M	otior	by/2 nd by	Naokatsu Nishiguchi (SCREEN) / Hidetoshi Sakura (Advisor)								
Di	scus	sion									
Vo	ote		7 Y-0 N; Motion passed								

Commenter 2 (Pochon, Stephan / TUVR) - Comment 2

Com	19.5.1 (19.1.5).
ment	The term 'facilities' is not defined, which make the requirement unclear. An example would be welcome to clarify this section.
	The TC Chapter agreed to do one of the following actions.

	*No	motion is required in this step.							
		Already add	Already addressed by Commenter #, Comment #						
		No further action was taken by the TC Chapter.							
		Refer to the	TF for more consideration.						
	Χ	New Busine	ess						
		Editorial Ch	-						
		Options	Case 1: No vote in this section:						
		for editorial	To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.						
		change (check	Case 2: Voted in this section:						
		one)	Original section number and at least one full sentence are required in "FROM" and "TO" fields.						
		FROM: Se	ction/Paragraph xxx						
Ed	1	TO: Section/Paragraph xxx							
Editorial Changes		Justification (If necessary)							
Change		FROM: Section/Paragraph xxx							
S	2	TO: Section	on/Paragraph xxx						
		Justification	on (If necessary)						
M	otior	1	To approve above editorial change(s)						
M	otior	by/2 nd by	Name (Company)/Name (Company)						
Di	scus	ssion	XXXX						
Vo	ote		XX Y-XX N; Motion passed/failed.						

Commenter 3 (Hicks, Julie/ Edwards) - Comment 2

NOTE XXX

	(19.1.3)
	NOTE XXX: SEMI S7 §8 highlights qualifications of personnel capable of reviewing and
)	validating calculations or test results. A person may be qualified to perform such
	calculations by: education in mechanical, structural, civil, seismic, or architectural
	engineering; being licensed or certified as PE (USA), Chartered (UK), or Eur Ing (EU) or
	equivalent; or experience in design, construction, and analysis of such structures.

the standard now asks for a C Eng to do the calculations – not sure how many C Eng we have in in the company, a more practical requirement would be if a CEng just had to approve the calculations?

	The	e TC Chapter	agreed to do one of the following actions.							
	*No	motion is re	equired in this step.							
A		Already addressed by Commenter #, Comment #								
Action	Χ	No further action was taken by the TC Chapter.								
		Refer to the TF for more consideration.								
		New Busine	ss							
		Editorial Cha	ange							
		Options	Case 1: No vote in this section:							
		for editorial	To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.							
		change (check	Case 2: Voted in this section:							
		one)	Original section number and at least one full sentence are required in "FROM" and "TO" fields.							
		FROM: Section/Paragraph xxx								
Ed	1	TO: Section/Paragraph xxx								
itorial (Justification (If necessary)								
Editorial Changes		FROM: Sec	ction/Paragraph xxx							
S	2	TO: Section/Paragraph xxx								
		Justification	on (If necessary)							
M	otior	1	To approve above editorial change(s)							
M	otior	n by/2 nd by	Name (Company)/Name (Company)							
Di	iscus	ssion	XXXX							
V	ote		XX Y-XX N; Motion passed/failed.							

Commenter 3 (Hicks, Julie/ Edwards) - Comment 4

C	(R4-3.1.1)
omment	IP = component importance factor. Generally speaking, equipment that contains toxic or explosive substances is assigned a value of 1.5, and a value of 1.0 otherwise (see ASCE 7-10 §13.1.3) my assumption here is that a pump / semi system would contain toxic / explosive substances – is this true in Semi's view (this maybe a dumb question but you never know)
2 3	The TC Chapter agreed to do one of the following actions.
Ĺ	*No motion is required in this step.

		Already add	dressed by Commenter #, Comment #						
	Х		action was taken by the TC Chapter. b/ semi systems would contain toxic/ explosive substances while some would not.						
		Refer to the TF for more consideration.							
		New Busine	ess						
		Editorial Ch	-						
		Options	Case 1: No vote in this section:						
		for editorial	To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.						
		change (check	Case 2: Voted in this section:						
		one)	Original section number and at least one full sentence are required in "FROM" and "TO" fields.						
		FROM: Section/Paragraph xxx							
Ed	1	TO: Section/Paragraph xxx							
itorial (Justification	on (If necessary)						
Editorial Changes		FROM: Se	ction/Paragraph xxx						
S	2	TO: Section	on/Paragraph xxx						
		Justification (If necessary)							
M	otion	1	To approve above editorial change(s)						
М	otion	n by/2 nd by	Name (Company)/Name (Company)						
Di	iscus	ssion	XXXX						
V	ote		XX Y-XX N; Motion passed/failed.						

Commenter 3 (Hicks, Julie/ Edwards) - Comment 5

Co	(R 4	-3.3.2)					
Comment	this diff	Generally speaking, users ask semiconductor manufacturing equipment to be Class A. this has implications for us understanding where in the fab out equipment is located – different fab floor heights have different classes and potential seismic loadings. Question – would our eqpt always be class A?					
	Th	The TC Chapter agreed to do one of the following actions.					
Act	*No motion is required in this step.						
ion		Already addressed by Commenter #, Comment #					
	Χ	No further action was taken by the TC Chapter.					

		Refer to the	TF for more consideration.						
		New Busine	ess						
		ange							
		Options for editorial change (check one)	Case 1: No vote in this section: To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V. Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.						
		FROM: Se	FROM: Section/Paragraph xxx						
Ed	1	TO: Section/Paragraph xxx							
Editorial Changes		Justificati	Justification (If necessary)						
hange		FROM: Se	ection/Paragraph xxx						
S	2	TO: Section/Paragraph xxx							
		Justification (If necessary)							
	otion		To approve above editorial change(s)						
M	otion	by/2 nd by	Name (Company)/Name (Company)						
Discussion XXXX			XXXX						
V	ote		XX Y-XX N; Motion passed/failed.						

Commenter 4 (Schwab, Paul / TI) - Comment 1

	((NOTEXX after 19.1.3)
Comment	Recommend moving Note XXX with reference to SEMI S7 from under Section 9.1.3 to under Section 19.1 "General" as follows: 19.1 General — The equipment should be designed so that if it is anchored as specified in the documentation provided to the equipment user, and it experiences anticipated seismic forces, it will not overturn, and no parts will fail or yield such that there would be a the risk of injury to personnel, or adverse environmental impact of Medium or higher per SEMI S10. NOTE XXX: SEMI S7 §8 highlights qualifications of personnel capable of reviewing and validating calculations or test results. A person may be qualified to perform such calculations by: education in mechanical, structural, civil, seismic, or architectural engineering; being licensed or certified as PE (USA), Chartered (UK), or Eur Ing (EU) or equivalent; or experience in design, construction, and analysis of such structures. NOTE XXX: Section 19.2 contains criteria for anticipated forces.
	The TC Chapter agreed to do one of the following actions.

	*No	No motion is required in this step.							
		Already addressed by Commenter #, Comment #							
	Χ	No further action was taken by the TC Chapter.							
		Refer to the	TF for more consideration.						
		New Busine	ess						
		Editorial Ch							
		Options	Case 1: No vote in this section:						
		for editorial	To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.						
		change (check	Case 2: Voted in this section:						
		one)	Original section number and at least one full sentence are required in "FROM" and "TO" fields.						
		FROM: Section/Paragraph xxx							
Edi	1	TO: Section/Paragraph xxx							
torial C		Justification	on (If necessary)						
Editorial Changes		FROM: Sec	ction/Paragraph xxx						
S	2	TO: Section/Paragraph xxx							
		Justification (If necessary)							
M	otior	1	To approve above editorial change(s)						
M	otior	n by/2 nd by	Name (Company)/Name (Company)						
Di	iscus	ssion	XXXX						
Vo	ote		XX Y-XX N; Motion passed/failed.						

V-(ii) Comments Created by Handling Negative

Comment (Created by Handling Negative) NC – 1

	*TF/TC Chapter to fill in									
ဂ္ဂ										
Comment										
nt										
	The	e TC Chapte	r agreed to do one of the following actions.							
	*No	motion is re	equired in this step.							
Þ		Already add	ressed by Commenter #, Comment #							
Action		No further a	ction was taken by the TC Chapter.							
]		Refer to the	TF for more consideration.							
		New busine	ss							
		Editorial cha								
		Options	Case 1: No vote in this section:							
		for editorial	To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.							
		change (check	Case 2: Voted in this section:							
		one)	Original section number and at least one full sentence are required in "FROM" and "TO" fields.							
		FROM: Sec	ction/Paragraph xxx							
Ed	1	TO: Section	n/Paragraph xxx							
Editorial (Justification (If necessary)								
Changes		FROM: See	ction/Paragraph xxx							
"	2	TO: Section/Paragraph xxx								
		Justification (If necessary)								
M	otior	1	To approve above editorial change(s)							
М	otior	by/2 nd by	Name (Company)/Name (Company)							
D	iscus	ssion	XXXX							
V	ote		XX Y-XX N; Motion passed/failed.							

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.

	Origin of this editorial change (Check one)			Commenter(s) / Comment(s) #					
			Х	Other [TF]					
1	FROM: Section/Paragraph Title of Table R4-1 Table R4-1 Standard Design Seismic Intensity (KS)								
	TO: Section/Paragraph Title of Table R4-1 Table R4-1 Standard Design Seismic Intensity (K _S)								
		Justification: (If necessary) Typographical error							
	Origin of t	his editorial change		Commenter(s) / Comment(s) #					
	(Check or		X	Other [TF]					
2		ection/Paragraph vation of § 19, Seism							
		on/Paragraph vation of § 19, Seism	R4-2 ic Fo						
		Justification: (If necessary) "Seismic Load" is used. However, this terminology has not adjusted to other words in Section 19.							
	Origin of this editorial change			Commenter(s) / Comment(s) #					
	(Check or	(Check one)		Other [TF]					
3	The horizon § 19.2.2, v	FROM: Section/Paragraph R4-2.1 The horizontal loadings(F_p) of 94% and 63% of the equipment weight (W_p), found in § 19.2.1 and § 19.2.2, were based on following assumptions for factors in the design lateral force formula 32-2 in § 1632.2 of the 1997 Uniform Building Code (UBC):							
	TO: Section/Paragraph R4-2.1 The horizontal forces (F_p) of 94% and 63% of the equipment weight (W_p), found in § 19.2.1 and § 19.2.2, were based on following assumptions for factors in the design lateral force formula 32-2 in § 1632.2 of the 1997 Uniform Building Code (UBC):								
	Justification: (If necessary) "horizontal loadings" is used. However, this terminology has not adjusted to in Section 19.								
		this editorial change		Commenter(s) / Comment(s) #					
	(Check one)			Other [TF]					
4	FROM: Section/Paragraph R4-3.2.4 The vertical seismic load, F _{pv} is given by:								
		on/Paragraph R4-3. $_{\rm cal}$ seismic force, $_{\rm Fpv}$		ven by:					
		ion: (If necessary) seismic force'' is used	d in T	TBC.					
N	Motion	To approve the abo	ve ed	ditorial change(s).					
M	Motion by/ Naokatsu Nishiguchi (SCREEN) / Hidetoshi Sakura (Advisor)								

2 nd by	
Discussion	
Vote	7 Y-0 N; Motion passed

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.

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	45	/	45	=	100.0%	≥90%

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

Note: See Regulations § 9.7.2 for further information.

Globally Approved (No Ratification Ballot needed):

Line Item 1 meets the Letter Ballot approval conditions for the global technical committee.

Need a Ratification Ballot:

Line Item 1 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

X

Checks for Entire Document Including All Approved Line Items

VIII. Safety Check

Note: This Safety check <u>applies to the entire Standard or Safety Guideline</u> including all the approved Line Items. See § 15 of the *Regulations* for further information.

		This is not a Safety Document , when all safety-related information is removed, the Document is still technically sound and complete. (<i>Regulations</i> ¶ 8.7.1)						
Motion	X	This is a Safety Document, when all safety-related information is removed, the Document is not technically sound and complete. (<i>Regulations</i> ¶ 8.7.2)						
		х	Safety Checklist (<i>Regulations</i> ¶ 15.3) is complete and has been included with the Document throughout the balloting process. (<i>Regulations</i> ¶ 15.1.2)					
ı	Vloti	tion by/2 nd by Nishiguchi (Company)/ Hidetoshi Sakura (Advisor)						
	D	Discussion		XXXX				
	Vote			7 Y-0 N; Motion passed				

IX. Intellectual Property (IP) Check

Note: This IP check <u>applies to the entire Standard or Safety Guideline</u> including all the approved Line Items. See § 16 of the *Regulations* for further information.

х	mate	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</i> ¶ 8.8.1)									
	Х		otentially n righted iter		patented technology or reproduction of nown.	GO TO SECTION X.					
	Potentially material patented technology or reproduction of copyrighted items is known, but a Letter of Assurance (LOA) or copyright release letter for such items has been obtained or presented to the TC Chapter.										
	Potentially material patented technology or reproduction of copyrighted items is known use of such materials is technically justified by the TC Chapter, but an LOA or copyr release letter for some of the item(s) has NOT been obtained or presented to the TC										
	~		Ask ISC f	or special permission to publish.							
	Motion		Quit activ	ity.	ty.						
	ň		Wait for L	OA for	patented technology or release of copyrighted	d items.					
	Mot	ion by	y/2 nd by	Name	(Company)/Name (Company)						
		Discus	ssion	XXXX	X						
		Vot	te	XX Y-	X Y-XX N						
		inal A	ction		Motion passed						
	, r	iiiai A	Clion		Motion failed						

* 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

0)			item(s) [X], [X] and [X] passed TC Chapter review as balloted and will be forwarded to the		
d d			A&R SC for procedural review.		
<u> </u>		Line	ine item(s) [X], [X] and [X] passed TC Chapter review with editorial changes and will be		
Motion (Check all applicable items)		forwa	rded to the ISC A&R SC for procedural review.		
	X	Line item(s) [1] passed TC Chapter review with technical changes and with or without editorial changes and will be forwarded to the ISC A&R SC for procedural review. A Ratification Ballot will be issued to verify the technical changes.			
		Line i	Line item(s) [X], [X] and [X] failed TC Chapter review and will be returned to the TF for rework.		
		Line i	ine item(s) [X], [X] and [X] failed TC Chapter review and work will be discontinued.		
Motion by/ 2nd by			Nishiguchi (Company) / Hidetoshi Sakura (Advisor)		
Discussion					
Vote			7 Y-0 N		
T21 A -42			x Motion passed		
Final Action)II	Motion failed		

Standards staff to record the result of the A&R procedural review here:

A&R		Line item(s) [X], [X] and [X] are Approved for publication			
		Line item(s) [X], [X] and [X] are Approved pending acceptance of the Ratification Ballot			
		Line item(s) [X], [X] and [X] are Not approved			
	Reason:				