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

Region/Locale: Japan Global Technical Committee: Japan EHS TC Chapter TC Chapter Cochairs: Supika Mashiro/ Tokyo Electron, Hidetoshi Sakura/ Intel, Moray Crawford/ Hatsuta Seisakusho Standards Staff: Junko Collins

	Scheduled in Background Statement	Actual
Date	09/24/2015	09/24/2015
Location	SEMI Japan, Tokyo Office	SEMI Japan, Tokyo Office
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

Doc	ument Number	Document Title		
#5875		Line Item Revisions to SEMI S26-0415,		
		Environmental, Health, and		
		Safety Guideline for FPD Manufacturing		
		System		
	Line Item 1	Line Item Title		
╞╴┍		Revision Related to Location for Table of Contents		
ist Ie		Line Item Title		
t of Item:	l ine Item 2	Revision to "Appendix 6" and "Related Information 3"		
		for Non-Ionizing Radiation (other than Laser) and		
0		Electromagnetic Fields		

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	=	60.87%	≥60%
Intercommittee Ballot	24]				
Voting Interest Reject(s)	1]	Total	Vote	rs with Rejects	1
Voting Interest Accept(s)	47]				

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

III. Rejects Voting Interest Reject 1 (Voting Interest Name: Safety Guru, LLC) Voter Reject 1 (Voter: Sklar, Eric, Safety Guru, LLC)

Neg	jative 1										
	Referenced	*TF/	TC Chapter to	o fill in, including text in the ballot if nec	essary.						
7	Paragraph	Note after 2.1									
legat		*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.									
ive	Negative Text	<i>Negative:</i> Do not add this NOTE. <i>Reason/Justification:</i> Such explanation may be appropriate in the Background Statement, but not in the document. By the time someone has gotten this far, he's already been through the ToC.									
TF i	nput <mark>(optional)</mark>										
	Withdrawal	х	No Negative	withdrawal made by Voter.	GO TO "Related" subsection						
	(check one)		Withdrawal do	ocument received by Standards staff on Y.	GO TO "Final" subsection \rightarrow (A)						
	Motion and	х	'Related' is m	utually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection						
	Reason (check one)		Negative is no	ot related. (Needs ≥2/3 votes to pass.)							
			Reason	xxxx							
Rel	Motion by/ 2 nd by	Nan	Name (Company)/Name (Company)								
ated	Discussion										
		XX Y-XX N; Motion passed/failed.									
	Result of Vote		[Negative is n	ot related.] < 2/3	GO TO "Persuasive" subsection						
	()		2/3 ≤ [Negativ	/e is not related.]	GO TO "Final" subsection \rightarrow (B)						
			Negative is re	elated and persuasive. (Needs >1/3 votes t	to pass.)						
Pe	Motion and Reason (check one)	x	Negative is re	elated and not persuasive. <mark>(Needs ≥2/3 vot</mark>	tes to pass.)						
rsuasi			Reason	Related and not technically persuasive It is Negative on Note, which is information of the second s	ve mational in nature.						
ive	Motion by/ 2 nd by	Naokatsu Nishiguchi (Screen Business Support Solutions) /Eiji Nakatani Semiconductor Solutions)									
	Discussion										
	Result of Vote	13 <mark>)</mark>	3 Y -0 N ; Motion passed.								

	_		_								
	(ch	eck	cone)	[Neg pers	gativ suasi	e is related and ve.] > 1/3	ls a technical change recommended?		Y GO TO "Address by Technical Change Op subsection	tion"	
				[Neg pers	gativ suasi	e is related and not ve.] < 2/3	(check one)		N GO TO "Final" subset → (E)	ction	
				2/3 and	≤ [Ne not ∣	Section → (C) Section → (C)					
				× 90%	GO TO "Not Significant Finding Option" subsection						
	Tech	nica	al Chang	e Recon	nmei	ndations					
	Origi fields	nal s.	section/	paragra	oh ni	umber and at least	one full sentence	are r	equired in "FROM" and "1	ГО"	
			FROM: \$	Section/I	Para	graph XXX					
	_	1	TO: Sec	ction/Par	agra	ph xxx					
	echni		Justific	Justification (If necessary)							
Ad	ical Cha		FROM: \$	ROM: Section/Paragraph XXX							
dress b	nges	2	TO: Sec	ction/Par	ragraph xxx						
y Tech			Justific	ation <mark>(If</mark>	nece	essary)					
nica	Motio	on			Negative is addressed by the technical change(s).						
l Cha	Motio	on b	y/2 nd by	,	Name (Company)/Name (Company)						
ange	Discu	ıssi	on								
Op					XX Y-XX N; Motion passed/failed.						
tion		Res (c	sult of Vo heck one	ote e)		2/3 ≤ [Negative is a change(s).]	ddressed by the te	chnic	al Technical Change" subsection	i or the	
		•				[Negative is not add change(s).] < 2/3	ressed by the tech	nical	GO TO "Final" subsec → (E)	ction	
		Мо	tion		To i	ncorporate the tech	nical change(s).				
	Inco Tec	Мо	tion by/2	2 nd by	Nam	ne (Company)/Name	(Company)				
	orpora chnic:	Dis	cussion								
	al C				xX ۲	/ -XX N ; Motion pass	ed/failed.				
	Result of Vote		f Vote		90% ≤ [Agree to inc	orporate.]		GO TO "Final" subsec → (F)	ction		
	Ψē		CHECK	one)		[Disagree to incorporate.]>10% GO TO → (E)			GO TO "Final" subsec → (E)	ction	
Signif t Find	This great	opti er t	ion can l han 90%	oe used o of the p	only perso	"if the TC Chapter ons voting on the ad	finds a Negative ction". (<i>Regulati</i> o	not p ons ¶	ersuasive by a vote equal ().6.4.4.2)	to or	
ican ling	Use of "Not It is significant sign					ually agreed upon to nt".	term the Negative	"not	GO TO "Final" subsec → (D)	ction	

	finding option" (check one)	х	It is mutually ag "significant".	greed upon to term the Negative	GO TO "Final" subsection \rightarrow (C)						
			Whether or not the Negative is "not significant" is decided by a vote.								
	Motion	The	e Negative is "not significant".								
	Motion by/ 2 nd by	Nam	me (Company)/Name (Company)								
	Voto		XX Y-XX N; Mc	ption passed with simple majority	GO TO "Final" subsection \rightarrow (D)						
	Vole		XX Y-XX N; Mo	otion failed with simple majority	GO TO "Final" subsection → (C)						
			(A)	Withdrawn <mark>(counted under h in dis</mark> p	position)						
			(B)	Not related (counted under i in disp	osition)						
	(check if	Х	(C)	Related and not persuasive (significa	nt)						
Fin	applicable)		(D)	Not significant <mark>(counted under j in d</mark>	isposition)						
a			(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.								

This table is needed for each Negative.

Negative 2

	Referenced	*TF/TC Chapter to fill in, including text in the ballot if necessary.									
	Section/ Paragraph	3									
		*Original complete Negative text (e.g., issue, justification, suggestion) should be									
Z		Copied. Negative: The ballot appears to be defective, as the Limitations section of the									
egat		cur	rently-publi	shed document is not included.							
ive	Negative Text	<i>Rea</i> Sec	<i>ison/Justifica</i> tion require	<i>thon:</i> There is a NOTICE at the begind d by the Regulations to be included in	nning of Section 3 (a the ballot) stating that						
		the	re are revisi	ons that are effective in July 2015. H	Iowever, the title of this						
		ball Del	lot states tha aved Revisio	it it contains proposed changes to the	"-0415" version. As the north ago has not been						
		incl	luded, I can	not determine how, if at all, the chang	e to Section 3 relates to the						
		cha	nges propos	ed in Line Item 1.							
TFi	nput (optional)										
Withdrawal (check one)		х	No Negative	withdrawal made by Voter.	GO TO "Related" subsection						
			Withdrawal d MM/DD/YYY	ocument received by Standards staff on Y.	GO TO "Final" subsection \rightarrow (A)						
	Mation and	х	'Related' is m	nutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection						
	Reason		Negative is n	ot related. <mark>(Needs ≥2/3 votes to pass.)</mark>							
	(check one)		Reason	xxxx							
Rel	Motion by/ 2 nd by	Name (Company)/Name (Company)									
ated	Discussion										
		XX Y-XX N; Motion passed/failed.									
	Result of Vote (check one)		[Negative is r	not related.] < 2/3	GO TO "Persuasive" subsection						
			2/3 ≤ [Negativ	ve is not related.]	GO TO "Final" subsection → (B)						
			Negative is re	elated and persuasive. <mark>(Needs >1/3 votes t</mark>	to pass.)						
		x	Negative is re	elated and not persuasive. <mark>(Needs ≥2/3 vot</mark>	es to pass.)						
Persu	Motion and Reason (check one)			Related and not technically persuasiv This shortcoming of the ballot is adm It would have been better if delayed a	ve ninistrative in nature. revision part of the S26-						
asive			Reason Reason recommended in 3.4.3.3.1 of the precedure manual								
Ū				The error is, however, not significant	t enough to fail this						
				document as the PM paragraph is wi (should) but not requirement	ritten as recommendation						
	Motion by/	Nac	okatsu Nishig	guchi (Screen Business Support Solut	ions) /Eiji Nakatani (Screen						
	2 nd by	Sen	Semiconductor Solutions)								

	Di	scu	ssion									
				13Y-(0 N ; Mo	tion passed.						
	Res	ult d	of Vote	[F	Negativ persuasi	e is related and ve.] > 1/3	ls a technical change recommended?	Y	GO TO "Address by Technical Change Option" subsection			
	(ch	ecł	(one)	[F	Negativ persuasi	e is related and not ve.] < 2/3	(check one)	N	GO TO "Final" subsection \rightarrow (E)			
				4	2/3 ≤ [Ne and not	egative is related persuasive.] < 90%	GO TO "Final" s	ubsectio	on → (C)			
				X	90% ≤ [N and not	GO TO "Not Significant Finding Option" subsection						
	Tech	nica	al Chang	je Red	comme	ndations						
	Origi fields	nal s.	section/	parag	graph n	umber and at least	one full sentence	are requ	uired in "FROM" and "TO"			
			FROM: \$	Sectio	on/Para	graph XXX						
		1	TO: Sec	ection/Paragraph xxx								
	echni		Justific	ication (If necessary)								
	cal Cl		FROM: \$	OM: Section/Paragraph XXX								
Addre	hange		TO: Sec	ction/	Paragra	ıph xxx						
ss by	Š	2										
/ Tech			Justific	ation	(If nece	essary)						
nnica	Motio	on			Neg	Negative is addressed by the technical change(s).						
l Ch	Motio	on b	oy/2 nd by	1	Nam	Name (Company)/Name (Company)						
ange	Discu	lssi	ion									
Op					XX	Y-XX N; Motion pass	ed/failed.		CO TO "Incomparation of the			
tion		Res (c	sult of Vo heck on	ote e)		2/3 ≤ [Negative is a change(s).]	ddressed by the te	chnical	Technical Change" subsection			
		-				[Negative is not add change(s).] < 2/3	ressed by the tech	nical	GO TO "Final" subsection \rightarrow (E)			
	. =	Мо	otion		To i	ncorporate the tech	nical change(s).					
	ncoi Tecl	Мо	tion by/2	2 ^{na} by	y Nam	ne (Company)/Name	(Company)					
	nnic:	Dis	scussion	1								
	atior al Cl				XX	Y-XX N; Motion pass	ed/failed.					
	ו of th hange		Result of	f Vote	,	90% ≤ [Agree to inc	orporate.]		GO TO "Final" subsection → (F)			
	Ge the (check on					[Disagree to incorpo	orate.]>10%		GO TO "Final" subsection → (E)			

z	This option can greater than 90%	be u 6 of t	sed only "if the the persons vot	TC Chapter finds a Negative not persing on the action". (<i>Regulations</i> ¶ 9.6	suasive by a vote equal to or 5.4.4.2)							
lot Sig	Use of "Not		It is mutually ag significant".	reed upon to term the Negative "not	GO TO "Final" subsection \rightarrow (D)							
ynifican	significant finding option" (check one)	x	It is mutually ag "significant".	reed upon to term the Negative	GO TO "Final" subsection → (C)							
t Fi			Whether or not	the Negative is "not significant" is decide	ed by a vote.							
ndir	Motion	The	e Negative is "not significant".									
ηΟ pr	Motion by/ 2 nd by											
tion	Voto		XX Y-XX N; Mot	tion passed with simple majority	GO TO "Final" subsection \rightarrow (D)							
	Vole		XX Y-XX N; Motion failed with simple majority		GO TO "Final" subsection \rightarrow (C)							
			(A)	Withdrawn (counted under h in dis	position)							
			(B)	Not related (counted under i in disp	oosition)							
	(check if	Х	(C)	Related and not persuasive (significa	int)							
Fin	applicable)		(D)	Not significant (counted under j in d	lisposition)							
a			(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 gener	rated. See Section V-(ii) Comment # X								

Disposition of Voting Interest Reject 1

Check only when the Document has not been failed.

2	Original	num	ber (#) of Negatives	(g)			
0	Number	of N	egatives withdrawn		(h)		
0	Number	of N	egatives found not related		(i)		
0	0 Number of Negatives found not significant (j)						
0	Number become	of N s no	egatives addressed by technica t significant)	al change <mark>(Negative</mark>	(k)		
			g - (h + i + j + k) = 0	Reject is Not Valid and is not included in the denominator of § VI. <i>Approval Conditions Check</i>			
Final		х	g - (h + i + j + k) >0	Reject is included in the Approval Conditions C	e denominator of § VI. Check		
			Reject without a Negative	Not Valid			

Note: If all of the Negatives included with a Reject Vote are withdrawn, determined to be not related, or determined to be not significant, the Reject Vote is not valid. (*Regulations* ¶ 9.4.3.3) Note: A Negative addressed by a technical change is automatically considered to be not significant. (*Regulations* ¶ 9.6.4.4.2)

IV. Other Technical Issues None

V. Comments None

VI. Editorial Changes Other than Those Voted on in § V None

VII. Approval Conditions Check

VII. - (i). Approval Rate

APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (*Regulations* ¶ 9.7.1.2)

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)

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	47	/	48	=	97.9%	 ≥90%

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

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

Note: See *Regulations* § 9.7.2 for further information.

X

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.

Line Item 2 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		Distributio	n	Return Rate	
Letter Ballot	56	÷	92	_ =	60.87%	≥60%
Intercommittee Ballot	24]				
Voting Interest Reject(s)	1]	Tot	al Vote	rs with Rejects	1
Voting Interest Accept(s)	47]				
		-		_	-	

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

III. Rejects Voting Interest Reject 1 (Voting Interest Name: Safety Guru, LLC) Voter Reject 1 (Voter: Sklar, Eric, Safety Guru, LLC)

Neg	legative 1										
	Referenced Section/	*TF/	TC Chapter to fill in, including text in the ballot if nec	essary.							
Negative	Paragraph	3									
		*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.									
	Negative Text	Negative: The ballot appears to be defective, as the Limitations section of the currently-published document is not included. Reason/Justification: There is a NOTICE at the beginning of Section 3 (a Section required by the Regulations to be included in the ballot) stating that there are revisions that are effective in July 2015. However, the title of this ballot states that it contains proposed changes to the "-0415" version. As the Delayed Revisions section that modified Section 3 a month ago has not been included, I cannot determine how, if at all, the change to Section 3 relates to the									
		cha	nges proposed in Line Item 2.								
TF i	nput <mark>(optional)</mark>										
	Withdrawal		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 \rightarrow (A)							
	Motion and	х	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection							
	Reason		Negative is not related. (Needs ≥2/3 votes to pass.)								
	(check one)		Reason XXXX								
Rel	Motion by/ 2 nd by	Nam	lame (Company)/Name (Company)								
ated	Discussion										
		XX	Y-XX N; Motion passed/failed.								
	Result of Vote		[Negative is not related.] < 2/3	GO TO "Persuasive" subsection							
			2/3 ≤ [Negative is not related.]	GO TO "Final" subsection → (B)							
Persuasi ve	Motion and Reason		Negative is related and persuasive. (Needs >1/3 votes t	to pass.)							
	(check one)	х	Negative is related and not persuasive. (Needs ≥2/3 vot	es to pass.)							

				F	Reason	Related and a This shortcor It would have 0415 was also recommended The error is, document as (should) but a	not technically p ning of the ballo be been better if d provided for th d in 3.4.3.3.1 of t however, not sig the PM paragra not requirement	ersuasi ot is adn lelayed ne refere the proo gnifican ph is w	ve ninistrative in nature. revision part of the S26- ence to the voter as cedure manual. t enough to fail this ritten as recommendation			
	Μ	otio 2 nd	n by/ by	Naokatsu Nishiguchi (Screen Business Support Solutions)/Eiji Nakatani (Screen Semiconductor Solutions)								
	Di	scu	ssion									
				12 Y-0 N; Motion passed.								
	Result of Vote (check one)			۲ ۲	Negativ persuasi	e is related and ve.] > 1/3	Is a technical change recommended?	Y	GO TO "Address by Technical Change Option" subsection			
				[Negativ ersuasi	e is related and not ve. $1 < 2/3$	(check one)	N	GO TO "Final" subsection → (E)			
				2	2/3 ≤ [Ne and not	egative is related persuasive.] < 90%	GO TO "Final" subsection \rightarrow (C)					
				X	0% ≤ [N and not	legative is related persuasive.]	GO TO "Not Significant Finding Option" subsection					
	Origi fields	nal s.	section/	parag	raph n	umber and at least o	one full sentence	are requ	lired in "FROM" and "TO"			
				Jeunonyranaynapin AAA								
Ac		1	TO: See	ction/	Paragra	iph xxx						
dress	echni		Justific	ation	(If nece	essary)						
s by Te	cal Ch		FROM:	Section/Paragraph XXX								
echnica	anges	2	TO: See	ction/	Paragra	ph xxx						
al Char			Justific	ation	(If nece	essary)						
וge O	Moti	on			Nea	ative is addressed by	/ the technical cha	nae(s).				
ptio	Motion bv/2 nd bv				Nam	ne (Company)/Name	(Company)					
n	Disc	ussi	on									
					XX	-XX N; Motion pass	ed/failed.					
		Res (c	sult of Ve heck on	ote e)		2/3 ≤ [Negative is a change(s).]	ddressed by the te	chnical	GO TO "Incorporation of the Technical Change" subsection			
						[Negative is not add change(s).] < 2/3	ressed by the tech	nical	GO TO "Final" subsection → (E)			

		Motion		Т	o ir	ncorporat	te the technical change(s).			
	Incorpor Technic	Motion by/2	2 nd b	y <mark>N</mark>	lam	e (Compa	any)/Name (Company)			
		Discussion)							
	ratio cal (×	XX Y-XX N: Motion passed/failed					
	on of t Chang	Result o	t of Vote			90% ≤ [A	gree to incorporate.]	GO TO "Final" subsection \rightarrow (F)		
	he Je	(check	one)			[Disagree	e to incorporate.]>10%	GO TO "Final" subsection \rightarrow (E)		
	This or areat	option can er than 90%	be u	sed or he pe	only "if the TC Chapter finds a Negative not persuasive by a vote equal to or persons voting on the action", (<i>Regulations</i> ¶ 9.6.4.4.2)					
z	9.000						9 ··· ··· · · · · · · · · · · · · · · ·			
ot Siç	Us	e of "Not		lt is m signifi	nutu icar	ally agreent. nt".	ed upon to term the Negative "not	GO TO "Final" subsection \rightarrow (D)		
gnifican	significant finding option" (check one)		х	lt is m "signif	nutu fica	ally agreents and a second s	ed upon to term the Negative	GO TO "Final" subsection → (C)		
t Fi				Wheth	her	or not the	e Negative is "not significant" is decide	ed by a vote.		
ndii	Motion The Neg				gative is "not significant".					
ng Op	Mo	otion by/ 2 nd by	Nam	ne (Co	Company)/Name (Company)					
tion		Vote		XX Y-	-xx	N; Motio	n passed with simple majority	GO TO "Final" subsection \rightarrow (D)		
		VOLE		XX Y-	-xx	N; Motio	n failed with simple majority	GO TO "Final" subsection → (C)		
					(/	4)	Withdrawn <mark>(counted under h in dis</mark> r	oosition)		
					(E	3)	Not related (counted under i in disp	osition)		
	(0	heck if	Х		(0)	Related and not persuasive (significa	nt)		
Fin	ap	plicable)])))	Not significant <mark>(counted under j in d</mark>	isposition)		
al					(E	Ξ)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS		
					(F	-)	Addressed by technical change (cou	nted under k disposition)		
	(c ap	heck if: plicable)		Comn	nen	t generat	ted. See Section V-(ii) Comment # X			

Negative 2

	Referenced	*TF/TC Chapter to fill in, including text in the ballot if necessary.								
	Paragraph	R3-	1.6							
Ne		*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.								
gativ		<i>Negative:</i> Insert "R3-2 Rationale for Revisions Made in 2015" before what was								
/e	Negative Text	proposed as R3-1.6 and renumber the remainder of R3 appropriately. <i>Reason/Justification:</i> These changes are being made in 2015, but R3-1 is								
		"Rationale for Revisions Made in 2011 and 2012".								
		Note: As this is an KI, the restructuring and renumbering may be done as editorial changes.								
TF i	nput <mark>(optional)</mark>									
	Withdrawal (check one)		No Negative	withdrawal made	e by Voter.		GO TO "Related" subsection			
			Withdrawal d	ocument receive Y.	aff on	GO TO "Final" subsection \rightarrow (A)				
	Motion and	х	'Related' is m	utually agreed u	ipon. <mark>(Needs no m</mark>	otion.)	GO TO "Persuasive" subsection			
	Reason		Negative is not related. (Needs ≥2/3 votes to pass.)							
	(check one)		Reason	хххх						
Re	Motion by/ 2 nd by	Nam								
ated	Discussion									
		XX	Y-XX N; Motic	on passed/failed						
	Result of Vote		[Negative is r	not related.] < 2/3	3		GO TO "Persuasive" subsection			
	(2/3 ≤ [Negativ	ve is not related.]		GO TO "Final" subsection → (B)			
			Negative is re	elated and persu	asive. <mark>(Needs >1/3</mark>	votes f	to pass.)			
	Motion and	x	Negative is re	elated and not p	≥2/3 vot	otes to pass.)				
	(check one)		Deeser	Related and 1 It is Negative	not technically pe on Related Info	ersuasiv rmatior	ve 1.			
Persu			Reason TF recommend editorial change to address this issue as "VI. Editorial Changes".							
asive	Motion by/ 2 nd by	Nac Sen	katsu Nishiq hiconductor S	guchi (Screen Solutions)	Business Suppo	ort Solu	tions)/Eiji Nakatani (Screen			
	Discussion									
		12 Y	-0 N ; Motion p	bassed						
	Result of Vote (check one)		[Negative is related and persuasive.] > 1/3 Is a technical change recommended? (check one)				GO TO "Address by Technical Change Option" subsection			

					[Neg pers	gativ suasi	e is related and not ve.] < 2/3			Ν	GO TO "Final" subsection → (E)		
					2/3 : and	≤ [N∉ not ∣	egative is related persuasive.] < 90%	GO TO "Final" s	ubsed	ctio	n → (C)		
				х	90% and	o ≤ [Negative is related not persuasive.] GO TO "Not Significant Finding Option" subsection							
	Tech	nica	al Chang	je Re	ecom	nmei	ndations						
	Origi field:	nal s.	section/	para	agrap	oh ni	umber and at least	one full sentence	are r	equ	ired in "FROM" and "TO"		
			FROM:	Sect	ion/F	Para	graph XXX						
	-	1	TO: See	ctior	n/Par	agra	iph xxx						
	echni		Justific	Istification (If necessary)									
A	cal Ch		FROM:	FROM: Section/Paragraph XXX									
ddress	anges	2	TO: See	ΓΟ: Section/Paragraph xxx									
s by			lu officio	lustification (If necessary)									
Tech			Justinc										
nica	Moti	on				Negative is addressed by the technical change(s).							
	Moti	on k	oy/2 nd by	/		Nam	ne (Company)/Name	(Company)					
lange	Disc	ussi	ion										
do €						XX Y-XX N; Motion passed/failed.							
otion	Result of Vote (check one)					2/3 ≤ [Negative is addressed by the techni change(s).]			chnica	al	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	otion			To incorporate the technical change(s).							
	nco Tec	Мо	otion by/2	2 nd k	бу	Name (Company)/Name (Company)							
	rpora hnic	Dis	scussion)									
	atio al C					XX	Y-XX N; Motion pass	ed/failed.					
	n of th hang		Result o	f Vot	te		$90\% \leq [Agree to income$	orporate.]			GO TO "Final" subsection → (F)		
	ופ e		(CNECK	one)		[Disagree to incorpo	orate.]>10%			GO TO "Final" subsection → (E)		
Not :	This great	opt ter t	ion can han 90%	be u 6 of t	sed (the p	only ersc	"if the TC Chapter ons voting on the ac	finds a Negative ction". (<i>Regulatio</i>	not pe ons¶9	ersı 9.6.4	asive by a vote equal to or 1.4.2)		
Signifi ing Op	Us	e of anif	f "Not icant		lt is sign	mutu ificai	ually agreed upon to nt".	term the Negative	"not		GO TO "Final" subsection → (D)		
cant	findi (cl	ing neck	option" one)	x	lt is "sigr	mutu nifica	ually agreed upon to ant".	term the Negative			GO TO "Final" subsection → (C)		

			Whether or not the Negative is "not significant" is decided by a vote.							
	Motion	The	The Negative is "not significant".							
	Motion by/ 2 nd by	Nan								
	Voto		XX Y-XX N; Motio	on passed with simple majority	GO TO "Final" subsection \rightarrow (D)					
	Vole		XX Y-XX N; Motio	on failed with simple majority	GO TO "Final" subsection → (C)					
			(A)	Withdrawn (counted under h in disp	lisposition)					
			(B) Not related (counted under i in c		osition)					
	(check if	Х	(C)	Related and not persuasive (significa	ficant)					
Fin	applicable)		(D)	Not significant (counted under j in d	isposition)					
al			(E) Related and persuasive and no addressed by technical change		DOCUMENT FAILS					
			(F)	Addressed by technical change (cou	nted under k disposition)					
	(check if applicable)		Comment genera	ted. See Section V-(ii) Comment # X						

IV. Other Technical Issues None

V. Comments None

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

1	Origin of this editorial change		Commenter(s) / Comment(s) #
	(Check one)	x	Other [Negative 2]

FROM: Section/Paragraph Related Information 3

R3-1 Rationale for Revisions Made in 2011 and 2012

R3-1.1 General Goals of the Revision

R3-1.1.1 The primary purpose of this revision was to update the published criteria to reflect:

 $\boldsymbol{\cdot}$ revisions of the referenced standards since initial publication,

 \cdot standards and regulatory limits published since the initial publication of this criteria such as the EU Worker Protection directives, and

·lessons learned and problems found in using the published criteria.

R3-1.1.2 With bay and chase style facilities becoming less common and open ballroom style facilities becoming more common, the distinction between potential operator and maintenance/service exposures became much harder to define and justify. Therefore this revision defines a single emission limit value or function.

R3-1.2 *Static Magnetic Emissions* — The criteria were revised upward and measurement technique clarified as the task force could find no referenced standard to justify keeping the values at the existing published level. The levels were set to the EU WP directive action level as these are significantly more stringent than any other published standard we could find. Since the higher allowable levels made the possibility that the 30 mT tool movement concern to be more likely, the labeling requirement for this concern was clarified/ expanded.

R3-1.3 Sub Radiofrequency Emissions

R3-1.3.1 The power frequency criteria that were provided as deviations from the rest of the sub radiofrequency criteria in the original criteria were eliminated as the agency that recommended them (International Commission on Non-Ionizing Radiation Protection [ICNIRP]) no longer includes the lower recommended values, and no other limits (e.g., ACGIH, EU Worker Protection directives) have adopted these lower limits.

R3-1.3.2 The electric (E) field criteria were left the same as previously published (20% of the ACGIH values).

R3-1.3.3 The magnetic (H) field criteria were reduced above 682.5 Hz in order to align with the EU Worker Protection Directive action levels. Below 682.5 Hz, the values were left at the previously published values (20% of the ACGIH values).

R3-1.4 Induced and Contact Current

R3-1.4.1 The primary changes were to reduce to a single criteria for both operators and maintainers and to clarify the criteria as the previous criteria had some aspects that allowed differing interpretations.

R3-1.4.2 The induced current criteria were set at the previous maintenance and service criteria, which is 20% of the IEEE C95.1 controlled environment value.

R3-1.4.3 The contact current criteria were set at the previously published operators level as the applicable criteria have been decreasing in all of the referenced standards. The new criteria are between 50% of the IEEE C95.1-2005 general population values and 25% of the 2010 ACGIH values.

R3-1.5 *Radio Frequency Electric (E) and Magnetic (H) Field and Power Density (S) Emissions* R3-1.5.1 In addition to the general drivers for the revision for this effort, RF frequency (3 kHz to 300 GHz) criteria had another driver, providing criteria that will not become invalid by a revision of the referenced standard (as was done by the 2005 revision of IEEE C95.1 that moved the criteria to different tables than those specified in the previous SEMI S26 criteria).

R3-1.5.2 The electric (E) field criteria are derived from the 1999 IEEE C95.1 values as the 2005 revision deleted criteria from 3 to 100 kHz. The criteria are the same as the previously published Maintenance and Service criteria (20% of the controlled environment criteria).

R3-1.5.3 The magnetic (H) field criteria were significantly modified (lowered) to align with the EU worker protection directive for EM fields (2004/40/EC) (which hadn't been published when the SEMI S26 criteria were originally written) up to 20.375 MHz. Above 20.375 MHz, the criteria align with the previously published SEMI S26 Maintenance and Service criteria (20% of the IEEE C95.1 controlled environment criteria).

R3-1.5.4 The power density (S) criteria were modified as they are based upon the IEEE C95.1 uncontrolled environment or general population limit which was significantly reduced with the 2005 revision for frequencies below 122.22 GHz. Above 122.22 GHz, the values remain at the previously published SEMI S26 Maintenance and Service criteria (20% of the IEEE C95.1 controlled environment criteria).

	TO: Section/Paragraph Related Information 3									
	R3-2 Rationale for Revisions Made in 2014									
	R3-2.1 General Goals of the Revision									
	R3-2.1.1 The primary purpose of this revision was to update the published criteria to reflect:									
	• revisions of the referenced standards since initial publication,									
	• standards and regulatory limits published since the initial publication of this criteria such as the EU Worker									
1	Protection directives, and									
	·lessons learned and problems found in using the published criteria									
	P3.2.1.2 With hav and chase style facilities becoming less common and open ballroom style facilities									
	has been been been been been been been bee									
	became much harder to define and justify. Therefore this revision defines a single omission limit value or									
	function									
	Tunction.									
	K3-2.2 Static Magnetic Emissions — The criteria were revised upward and measurement technique clarified									
	as the task force could find no referenced standard to justify keeping the values at the existing published									
level. The levels were set to the EU WP directive action level as these are significantly more stringent than										
any other published standard we could find. Since the higher allowable levels made the possibility that the 30										
	mT tool movement concern to be more likely, the labeling requirement for this concern was clarified/									
	expanded.									
	K3-2.3 Sub Radiofrequency Emissions									
	R3-2.3.1 The power frequency criteria that were provided as deviations from the rest of the sub									
	radiofrequency criteria in the original criteria were eliminated as the agency that recommended them									
(International Commission on Non-Ionizing Radiation Protection [ICNIRP]) no longer includes the lower										
	recommended values, and no other limits (e.g., ACGIH, EU Worker Protection directives) have adopted these									
	lower limits.									
	R3-2.3.2 The electric (E) field criteria were left the same as previously published (20% of the ACGIH									
	values).									
	R3-2.3.3 The magnetic (H) field criteria were reduced above 682.5 Hz in order to align with the EU Worker									
	Protection Directive action levels. Below 682.5 Hz, the values were left at the previously published values									
	(20% of the ACGIH values).									
	R3-2.4 Induced and Contact Current									
	R3-2.4.1 The primary changes were to reduce to a single criteria for both operators and maintainers and to									
	clarify the criteria as the previous criteria had some aspects that allowed differing interpretations.									
	R3-2.4.2 The induced current criteria were set at the previous maintenance and service criteria, which is 20%									
	of the IEEE C95.1 controlled environment value.									
	R3-2.4.3 The contact current criteria were set at the previously published operators level as the applicable									
	criteria have been decreasing in all of the referenced standards. The new criteria are between 50% of the									
	IEEE C95.1-2005 general population values and 25% of the 2010 ACGIH values.									
	R3-2.5 Radio Frequency Electric (E) and Magnetic (H) Field and Power Density (S) Emissions									
	R3-2.5.1 In addition to the general drivers for the revision for this effort. RF frequency (3 kHz to 300 GHz)									
	criteria had another driver, providing criteria that will not become invalid by a revision of the referenced									
	standard (as was done by the 2005 revision of IEEE C95.1 that moved the criteria to different tables than									
	those specified in the previous SEMI S26 criteria).									
	Justification: (If necessary)									
	Renumber R3-1 to R3-2									
	Publication error correction (2014)									
	Origin of this editorial change Commenter(s) / Comment(s) #									
	(Check one)									
	X Other [Negative 2]									
	FROM: Section/Paragraph Related Information 3									
	R3-1.6 Optical Radiation Emissions									
	R3-1.6.1 This section was revised to									
	a) define the hazards of optical energy more clearly, as previous criteria seemed to focus on UV concerns.									
	b) provide additional measurement guidance on the different criteria.									
	c) align with revisions and additions to the various referenced criteria and									
l	d) delete the 20% multiplier of the external referenced limits.									
l	R3-1.6.2 The new criteria allow for some flexibility on measurement distance and time of exposure when it									
I	can be justified by the foreseen exposure scenarios and is adequately communicated									
L										

d) delete the 20% multiplier of the R3-1.1.2 The new criteria allow f	t guid ns to extention for so	ance on the different criteria, the various referenced criteria, and rnal referenced limits. me flexibility on measurement distance and time of exposure wh					
Justification: (If necessary) Add R3-1 Rationale for Revis	ions	Made in 2015					
Origin of this editorial change		Commenter(s) / Comment(s) #					
(Check one)	x	Other [Negative 2]					
FROM: Section/Paragraph Re	elated	Information 3					
R3-2 Rationale for Initial Pub	licati	on of Criteria					
occupational exposure limits (OEI	[])	ble for obtaining the current revision of the standards ched for					
values currently achievable for eac was selected. Where there was no (instantaneous field strength meas public levels the same. Where ther maintenance emission limit was se	known international standards as well as a consideration for best available control technology (i.e., lowest values currently achievable for each radiation type). Where a general public limit existed, 20% of this value was selected. Where there was no public limit, the value selected is generally 20% of the OEL value (instantaneous field strength measurement peak). The latter case would have the occupational and general public levels the same. Where there was an occupational exposure limit specified in a standard, the						
IEEE C95.1 differentiates between IEEE C95.1 'controlled access' en incurred by persons who are award cognizant persons, or as the incide exposure levels may be above thos induced currents may exceed the v According to IEEE C95.1, 'uncon	n 'con aviron e of th ental r se sho values trolle ge or	trolled access' and 'uncontrolled access' exposure exposure that may ments are those where 'locations where there is exposure that may ne potential for exposure as a concomitant of employment, by othe esult of transient passage through areas where analysis shows the own in Table 2 but do not exceed those of Table 1, and where the in Table 2, Part B, but do not exceed the values of Table 1, Part I d access' environments are 'locations where there is the exposure control of their exposure. The exposure may occur in living quart tations that the exposure levels may exceed those shown in Table					
individuals who have no knowledg or workplaces where there are no of and where induced currents do not C95.1 'controlled access' and other performing maintenance and servi standards should be applied to equid definitions are particularly relevant	expec t exce er 'oco ce of tipme t to b	ed those in Table 2, Part B.' Task force members advise that IEE cupational exposure' standards should be applied to personnel equipment and that 'uncontrolled access' or other 'general public nt operators during routine work and to other locations. These IEI roadcast facilities as well as normal industrial environments					
individuals who have no knowledg or workplaces where there are no of and where induced currents do not C95.1 'controlled access' and other performing maintenance and servi standards should be applied to equi definitions are particularly relevant such as fabs. Task force members R3-2.4 As with the rationale in the or to be in an uncontrolled area. Mu the hazardous energy and protect the R3-2.5 <i>References</i>	expect t exce er 'occ ce of tipme t to b recor e Ioniz Iainte	ed those in Table 2, Part B.' Task force members advise that IEEI cupational exposure' standards should be applied to personnel equipment and that 'uncontrolled access' or other 'general public nt operators during routine work and to other locations. These IEI roadcast facilities as well as normal industrial environments mend that uncontrolled access limits be applied to fetal exposure zing section, the operator is considered a member of the general p nance or service technicians should be trained to know how to con- elves from the hazard and its adverse effects.					
individuals who have no knowled or workplaces where there are no and where induced currents do not C95.1 'controlled access' and othe performing maintenance and servi standards should be applied to equ definitions are particularly relevan such as fabs. Task force members R3-2.4 As with the rationale in the or to be in an uncontrolled area. M the hazardous energy and protect t R3-2.5 <i>References</i> R3-2.5.1 2010 TLVs and BEIs Th Biological Exposure Indices, ACC R3-2.5.2 Guidelines on Limits of I Health Physics Vol. 73 No. 3 (Ser	expect t exceent 'occo ce of hipment to b recor e Ionia fainte thems resho GIH, C Exposent	ed those in Table 2, Part B.' Task force members advise that IEEI cupational exposure' standards should be applied to personnel equipment and that 'uncontrolled access' or other 'general public nt operators during routine work and to other locations. These IEE roadcast facilities as well as normal industrial environments mend that uncontrolled access limits be applied to fetal exposure zing section, the operator is considered a member of the general p nance or service technicians should be trained to know how to conelves from the hazard and its adverse effects. Id Limit Values for Chemical Substances and Physical Agents Cincinnati, OH. [republished annually] sure to Broad-Band Incoherent Optical Radiation (0.38 to 3μ M), per 1997); pp.539–554.					

TO: Section/Paragraph Related Information 3 R3-3 Rationale for Initial Publication of Criteria R3-3.1 The user of this table is responsible for obtaining the current revision of the standards cited for occupational exposure limits (OEL).

R3-3.2	The emission values in Appendix 6 that are not to be exceeded were chosen based on a review of all									
known i	rnational standards as well as a consideration for best available control technology (i.e., lowest ently achievable for each radiation type). Where a general public limit existed, 20% of this value									
values c	ently achievable for each radiation type). Where a general public limit existed, 20% of this value d. Where there was no public limit, the value selected is generally 20% of the OEL value									
was sele	ed. Where there was no public limit, the value selected is generally 20% of the OEL value ous field strength measurement peak). The latter case would have the occupational and general									
(instanta	neous field strength measurement peak). The latter case would have the occupational and general evels the same. Where there was an occupational exposure limit specified in a standard, the									
public le	evels the same. Where there was an occupational exposure limit specified in a standard, the									
mainten	ance emission limit was set at 20% of this level.									
R3-3.3 I	lost health standards differentiate between 'occupational' and 'general public' exposure criteria.									
IEEE C	95.1 differentiates between 'controlled access' and 'uncontrolled access' exposures. According to									
IEEE C	EEE C95.1 'controlled access' environments are those where 'locations where there is exposure that may be									
incurred	incurred by persons who are aware of the potential for exposure as a concomitant of employment, by other									
cognizant persons, or as the incidental result of transient passage through areas where analysis shows the										
exposur	e levels may be above those shown in Table 2 but do not exceed those of Table 1, and where the									
induced	currents may exceed the values in Table 2, Part B, but do not exceed the values of Table 1, Part B.'									
Accordi	ng to IEEE C95.1, 'uncontrolled access' environments are 'locations where there is the exposure of									
individu	als who have no knowledge or control of their exposure. The exposure may occur in living quarters									
or work	places where there are no expectations that the exposure levels may exceed those shown in Table 2									
and whe	re induced currents do not exceed those in Table 2, Part B.' Task force members advise that IEEE									
C95.1 'c	controlled access' and other 'occupational exposure' standards should be applied to personnel									
perform	ing maintenance and service of equipment and that 'uncontrolled access' or other 'general public'									
standard	s should be applied to equipment operators during routine work and to other locations. These IEEE									
definitio	ns are particularly relevant to broadcast facilities as well as normal industrial environments such as									
fabs. Ta	sk force members recommend that uncontrolled access limits be applied to fetal exposure.									
R3-3.4 /	As with the rationale in the Ionizing section, the operator is considered a member of the general public									
or to be	in an uncontrolled area. Maintenance or service technicians should be trained to know how to control									
the haza	rdous energy and protect themselves from the hazard and its adverse effects.									
K3-4 K										
K3-4-1 2	2010 TLVs and BEIs Threshold Limit Values for Chemical Substances and Physical Agents									
Biologic	cal Exposure Indices, ACGIH, Cincinnati, OH. [republished annually]									
R3-4-2	Guidelines on Limits of Exposure to Broad-Band Incoherent Optical Radiation (0.38 to 3μ M),									
Health F	Physics Vol. 73, No. 3 (September 1997): pp.539–554.									
K_{3-4-5}	CNIRP 1994 "Guidelines on Limits of Exposure to Static Magnetic Fields," Health Physics vol 66									
(1) (Jan	Iary 1994): pp. 100–100. IEEE CO5 1 1001 Standard for Safety Levels with Despect to Human Exposure to Dadie									
Frequen	EEE C93.1-1991 — Stalluaru foi Safety Levels with Respect to numan Exposure to Rauto									
R3-4-5	Interim Guidelines on the Limits of Exposure to 50/60 Hz Electric and Magnetic Fields									
IRPA/IC	NIRP Guidelines Health Physics Vol 58 No 1(January 1990): pp. 113–122.									
Justific	eation: (If necessary)									
Renum	bering R3-2 to R3-3, Renumbering R3-2.5 to R3-4.									
Motion	To approve the above editorial change(s).									
Motion by	/ Naokatsu Nishiguchi (Screen Business Support Solutions) / Eiji Nakatani									
2 nd by	(Screen Semiconductor Solutions)									
	none									
Discussion										
Vote	13 Y-0 N; Motion passed									

VII. Approval Conditions Check

VII. - (i). Approval Rate

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

Note: See Regulations § 9.7.2 for further information.



Globally Approved (No Ratification Ballot needed):

Line Item 2 meets the Letter Ballot approval conditions for the global technical committee.

Need a Ratification Ballot:

Line Item 2 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

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.

		Th is :	is is not a s still technica	Safety Document, when all safety-related information is removed, the Document lly sound and complete. ($Regulations$ ¶ 8.7.1)						
Notior	х	Th no	This is a Safety Document, when all safety-related information is removed, the Document is not technically sound and complete. (<i>Regulations</i> \P 8.7.2)							
		x	Safety Che throughout	ecklist (<i>Regulations</i> ¶ 15.3) is complete and has been included with the Document the balloting process. (<i>Regulations</i> ¶ 15.1.2)						
N	/loti	on	oy/2 nd by	Naokatsu Nishiguchi (Screen Business solution / Eiji Nakatani (Screen Semiconductor Solutions)						
Discussion				none						
		V	ote	12 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.

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	No po copyr	otentially m righted iten	naterial ns is kr	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 a use of such materials is technically justified by the TC Chapter, but an LOA or copyright release letter for some of the item(s) has NOT been obtained or presented to the TC Chapter.							
Ν		Ask ISC for special permission to publish.						
otio		Quit activ	tivity.					
'n		Wait for L	d items.					
Mot	ion by	//2 nd by	Name	e (Company)/Name (Company)				
Discussion XXX								
	Vot	е	XX Y-XX N					
E	inal A	ction		Motion passed				
Г	iiiai A	CION		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

(c		Line item(s) [X], [X] and [X] passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.				
Motion heck all applicab items)	х	Line item(s) [1], and [2] passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.				
		Line item(s) [X], [X] and [X] 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 item(s) [X], [X] and [X] failed TC Chapter review and will be returned to the TF for rework.				
e		Line item(s) [X], [X] and [X] failed TC Chapter review and work will be discontinued.				
Motion by/ 2nd by			Naokatsu Nishiguchi(Screen Business solution / Eiji Nakatani(Screen Semiconductor Solutions)			
Discussion			none			
Vote			13 Y -0 N			
Final Action			Х	Motion passed		
rinai Action			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:						