Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: North America

Global Technical Committee: Liquid Chemicals

TC Chapter Cochairs: Steve Rogers (CMC Materials), Don E. Hadder (Intel), Koh Murai (Mega Fluid

Systems), Laura Ledenbach (Evonik)

Standards Staff: Laura Nguyen

	Scheduled in Background Statement	Actual
Date	11/07/2023	11/07/2023
Location	SEMI HQ, Milpitas, CA/USA	SEMI HQ, Milpitas, CA/USA
Reason for Change of Date and/or Location (if changed)		

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

I. Document Number and Title

Document Number	Document Title
6828D	Revision to SEMI F31-0313, Guide for Bulk Chemical
	Distribution Systems

II. Tally

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

Note: A minimum of 60% of the Voting Interests that have TC Members within the global technical committee that issued the Letter Ballot must return Votes. (Regulations ¶ 9.6.2.1.1)

Voting Tally (with example values):

Returned Votes		Distribution		Return Rate	
61	÷	101] =	60.4%	≥60%
41					
1		Total	Vote	rs with Rejects	1
46]				
	41	61 ÷	61 ÷ 101 41 1 Total	61 ÷ 101 = 41 1 Total Vote	61 ÷ 101 = 60.4% 41 1 Total Voters with Rejects

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

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: Guru) Voter Reject 1 (Voter: Eric Sklar / Safety Guru)

Negative 1 (SG01)

Neg	ative 1 <mark>(SG01</mark>)											
Negative	Referenced Section/Paragraph *TF/TC Chapter to fill in, including text in the ballot if necessary. 3.1 This Guide is not intended to be applicable to every possible use and type of chemical dispensing system, but only to those systems that originate with sources of single lots of liquid materials which operate in a way that delivers to a single or multiple streams. This Guide exclusively systems and chemical waste stream reprocessing systems. 3.1											
ve	Negative Text	para Rea	Negative: Split the latter sentence, "This Guidereprocessing systems", into a separate paragraph Reason/Justification: The exclusion of slurry and reprocessing systems is a separate imitation from the exclusion of small-source-container systems.									
	Withdrawal (check one)	X	No Negative withou	Irawa	al mad	e by Voter.	GO TO "Related" subsection					
Rela ted	Motion and Reason (check one)	X	'Related' is mutua	lly ag	jreed ι	upon. (Needs no motion.)	GO TO "Persuasive" subsection					
	Motion and Reason (check one)	X	X Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)									
Per			Reason Editorial in nature, separate the paragraph into a sepa paragraph.									
Persuasive	Motion by/ 2 nd by		By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions									
/е	Discussion	Non	None									
	Result of Vote	11 Y -0 N ; Motion passed/failed.										
	(check one)	X	2/2 < [Negative is related			GO TO "Final" subsectio	on → (C)					
			(A)	With	drawn	(counted under h in dispo	osition)					
			(B)	Not	related	l (counted under i in dispo	osition)					
	(check if	X	(C)	Rela	ted ar	nd not persuasive (significan	t)					
Final	applicable)		(D)			cant (counted under j in di	sposition)					
<u>a</u>			(E)	Related and persuasive and not addressed by technical change			DOCUMENT FAILS					
	()		(F)	Addı	esse	by technical change (coun	ted under k disposition)					
	(check if applicable) X Comment generated. See Section V-(ii) Comment # NC-1.											

This table is needed for each Negative.

Negative 2 (SG02)

neg	ative 2 (SG 02)									
Negative	Referenced Section/Paragraph *TF/TC Chapter to fill in, including text in the ballot if necessary. 3.2 This Guide excludes construction protocols for BCDS, such as clean manufacture integrity of fabrication, and prequalification of materials. Such protocols are found elements and § 10, Related Documents. 3.2 *TF/TC Chapter to fill in, including text in the ballot if necessary. 3.2 *TF/TC Chapter to fill in, including text in the ballot if necessary. 3.2 *TF/TC Chapter to fill in, including text in the ballot if necessary. 3.2 *TF/TC Chapter to fill in, including text in the ballot if necessary. 3.2 *TF/TC Chapter to fill in, including text in the ballot if necessary. 3.2 *TF/TC Chapter to fill in, including text in the ballot if necessary. 3.2 *TF/TC Chapter to fill in, including text in the ballot if necessary. 3.2 *TF/TC Chapter to fill in, including text in the ballot if necessary. 3.2 *TF/TC Chapter to fill in, including text in the ballot if necessary. 3.2 *TF/TC Chapter to fill in, including text in the ballot if necessary. 3.2 *TF/TC Chapter to fill in, including text in the ballot if necessary. 3.2 *TF/TC Chapter to fill in, including text in the ballot if necessary. 3.2 *This Guide excludes construction protocols for BCDS, such as clean manufacture in the ballot if necessary. 3.2 *This Guide excludes construction protocols for BCDS, such as clean manufacture in the ballot if necessary. 3.2 *This Guide excludes construction protocols for BCDS, such as clean manufacture in the ballot if necessary. 3.2 *This Guide excludes construction protocols for BCDS, such as clean manufacture in the ballot if necessary. 3.2 *This Guide excludes construction protocols for BCDS, such as clean manufacture in the ballot in t									
/e	Negative Text	Rea	ative: Change "el son/Justification: s documents that co	Nei	ther o	f the Sections con		he documents cited in"> n information, although each		
	Withdrawal (check one)	X	No Negative withou	Irawa	l mad	e by Voter.		GO TO "Related" subsection		
Rela ted	Motion and Reason (check one)	X	'Related' is mutua	lly ag	reed (upon. (Needs no r	motion.)	GO TO "Persuasive" subsection		
	Motion and Reason	X	X Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)							
Per	(check one)		Reason Editorial to provide clarity to the related docs being reference							
Persuasive	Motion by/ 2 nd by	By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions								
/e	Discussion	Non	е							
	Result of Vote	11 Y-0 N; Motion passed/failed.								
	(check one)	X	2/3 ≤ [Negative is and not persuasiv			GO TO "Final" s	ubsectio	n → (C)		
			(A)	With	drawn	(counted under	h in disp	osition)		
			(B)	Not i	elated	d (counted under	i in dispo	osition)		
	(check if	X	(C)	Rela	ted ar	nd not persuasive	(significar	nt)		
Final	applicable)		(D)	Not s	signific	cant (counted und	der j in di	isposition)		
<u>a</u>			(E)	Related and persuasive and not addressed by technical change			ge	DOCUMENT FAILS		
			(F)	Addr	essec	by technical char	ige <mark>(coun</mark>	ted under k disposition)		
	(check if applicable)	X	Comment generat	ated. See Section V-(ii) Comment # NC-2.						

Negative 3 (SG03)

	Referenced Section/	*TF/	TC Chapter to fill in, including text in the ballot if nec	essary.
_	Paragraph	4.2	Footnote	
Negative	Negative Text	Rea Fed vers	ative: Correct this. son/Justification: These are not "federal standards", they eral Regulations., which is published by the Office of the F ion that is concurrently maintained (as opposed to the ann s://www.ecfr.gov/. FFWLIW, I entered "49 CFR 178" in a rch page to which the URL in the footnote leads but did no	ederal Register, The nual versions) is at couple of different fields in the
	Withdrawal (check one)	X	No Negative withdrawal made by Voter.	GO TO "Related" subsection

	М	otio	n and									
Rela ted		Rea	ison k one)	X	'Related	' is mutually agreed ι	ıpon. <mark>(Needs no</mark> r	notio	n.)	GO TO "Persuasive" subsection		
	Motion and Reason (check one)				Negative	egative is related and persuasive. (Needs >1/3 votes to pass.)						
		otio	on by/ ^I by			ntosh / GF Piping Sys Isey Sullivan / FTD S						
Persuasive	Di	scι	ssion	None	е							
uas				7 Y-	0 N ; Mot	ion passed.						
ive			of Vote k one)	x		e is related and ive.] > 1/3	Is a technical change recommended?	X	Υ	GO TO "Address by Technical Change Option" subsection		
					persuas	e is related and not ive.] < 2/3	(check one)		N	GO TO "Final" subsection → (E)		
						ndations	ono full sontonco	aro i	roai	uired in "FROM" and "TO"		
	field						one fail sentence	are	еци	aned in Trom and To		
			FROM:	Secti	ion/Para	graph 4.2 Footnote						
			4.2 Fede	ral Re	ral Regulations ¹							
			¹ United States Federal Standards, available as freely downloadable PDF files from the ASSIST Quick Search we									
	Tec		http://quic	http://quicksearch.dla.mil.								
	hni		TO: Sec	tion/	Paragra	aragraph 4.2 Footnote						
Þ	cal (1	4.2 Fede	ral Regulations¹								
ddr	Chai		¹ United S	tates (Code of Fe	deral Standards Regulation	ns, available as freely	downl	oada	ble PDF files from the ASSIST Quick		
Address by Techn	Technical Changes		Search we 178.	ebsite	at a down	loadable version at https	://www.ecfr.gov/curre	nt/title	:-49/s	subtitle-B/chapter-I/subchapter-C/part-		
J.			Justific	ation	ı (If nece	accary)						
echi					•							
nical			Footnote	e and	reference	ce link were incorrect	•					
	Moti	on			Neg	Negative is addressed by the technical change(s).						
ange	Moti	on l	by/2 nd by	,	•	By: Lindsey Sullivan / FTD Solutions Second: Reb Melatoch / GE Bining Systems						
Change Option	Disc	uss	ion			Second: Bob McIntosh / GF Piping Systems None						
l on					9 Y-	0 N; Motion passed.						
		_	sult of V		X	2/3 ≤ [Negative is ad change(s).]	ddressed by the te	chnic	al	GO TO "Incorporation of the Technical Change" subsection		
		,,	HECK OII	c)		[Negative is not addressed by the technical			GO TO "Final" subsection → (E)			
		М	otion		To i	change(s).] < 2/3 ncorporate the techi	nical change(s).			/ (L)		
	Incorporation of the	M	otion by/	2 nd b	y By:	David Kandiyeli / Me	ga Fluid Systems,					
	corpora n of the	<u> </u>	scussion		Sec	ond: Jim Cannon / M	ettler Toledo Thor	nton				
	atio e	۳	Scussiol	1	Nor							
1					9 f-	9 Y-0 N; Motion passed.						

		Result of Vote (check one)		X	90% ≤ [/	Agree to incorporate.]	GO TO "Final" subsection → (F)		
					[Disagre	e to incorporate.]>10%	GO TO "Final" subsection → (E)		
					(A)	Withdrawn (counted under h in disposition)			
						(B)	Not related (counted under i in disposition)		
Ξ.	(0	check if	f I		(C)	Related and not persuasive (significant)			
Final		applicable)		(D)		Not significant (counted under j in disposition)			
				(E)		Related and persuasive and not addressed by technical change	DOCUMENT FAILS		
			X			Addressed by technical change (counted under k disposition)			

Negative 4 (SG04)

Neg	gative 4 (SG04)									
	Referenced Section/		•	in, ir	ocludi	ng text in the ballot if nec	essary.			
z	Paragraph	4.2,	first item							
Negative	Negative Text	Rea "s" a The	son/Justification: at the end is part of	The the o	e title o	R 178 — Specifications for I of Part 178 is "Specifications title, despite being a bit odd. t is a bit confusing, as the titl	for Packagings" (Yes, the			
	Withdrawal (check one) X No Negative withdrawal made by Voter. GO TO "Related" subsection									
Rela ted	Motion and Reason (check one)	X	'Related' is mutua	lly ag	reed ι	upon. (Needs no motion.)	GO TO "Persuasive" subsection			
	Motion and Reason (check one)	X	Negative is related	es to pass.)						
Per			Reason							
Persuasive	Motion by/ 2 nd by		Chuck Dale / Veolia ond: Lindsey Sulliv							
/е	Discussion	Non	е							
	Result of Vote	11 Y	′ -0 N ; Motion pass	ed/fa	iled.					
	(check one)	X	2/3 ≤ [Negative is and not persuasive			GO TO "Final" subsectio	n → (C)			
			(A)	With	drawn	(counted under h in dispo	osition)			
			(B)	Not ı	elated	l (counted under i in dispo	osition)			
	(check if	X	(C)	Rela	ted ar	nd not persuasive (significan	t)			
Final	applicable)		(D)	Not s	signific	cant (counted under j in di	sposition)			
al			(E)	addr	essed	nd persuasive and not by technical change	DOCUMENT FAILS			
			(F)	Addr	essec	by technical change (coun	ted under k disposition)			
	(check if applicable)	X	Comment generat	ed. S	ee Se	ection V-(ii) Comment # NC	D-3.			

Negative 5 (SG05)

1109	gative 5 (SG05)										
Ne	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary. 4.2, first item									
ga	Paragraph	T.2, III OF ITOTI									
Negative	Negative Text	Rea	Negative: Remove the footnote Reason/Justification: The footnote on ¶4.2 provides the source for each of the items §4.2.								
	Withdrawal (check one)	X	No Negative without	Irawa	al made by Voter.	GO TO "Related" subsection					
Rela ted	Motion and Reason (check one)	X	'Related' is mutua	lly ag	reed upon. (Needs no motion.)	GO TO "Persuasive" subsection					
	Motion and Reason	X	X Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)								
Per	(check one)	Reason Addressed in Negative 4 (SG04).									
Persuasive	Motion by/ 2 nd by		Chuck Dale / Veoliond: Lindsey Sulliv								
Ve	Discussion	Non	е								
	Result of Vote	11 Y -0 N ; Motion passed/failed.									
	(check one)	X	2/3 ≤ [Negative is and not persuasive			n → (C)					
			(A)	With	drawn (counted under h in dispo	osition)					
			(B)	Not	related (counted under i in dispo	osition)					
I I	(check if	X	(C)	Rela	ted and not persuasive (significan	t)					
Final	applicable)		(D)	Not significant (counted under j in disposition)							
			(E)		ted and persuasive and not essed by technical change	DOCUMENT FAILS					
			(F)	Addı	ted under k disposition)						

Negative 6 (SG06)

	Referenced Section/	*TF/TC Chapter to fill in, including text in the ballot if necessary.						
	Paragraph	4.2,	second, third, and fourth items.					
Negative Text Negative Text Negative: Delete these items. Reason/Justification: They are redundant with the first item, as each of them is within 178. Alternatively, one could delete the first item and keep the remaining items. I note that Subpart K of Part 178, which includes 178.509, is entitled "Non-bulk Performant Oriented Packaging Standards", so the US government does not consider things therein "bulk". The SEMI Standards Program is not bound by the US governments definitions but it might be worthwhile to include a NOTE acknowledging the difference between how SEMI Standard defines "bulk" and how the US government does.								
	Withdrawal (check one)	X	No Negative withdrawal made by Voter.	GO TO "Related" subsection				
Rela ted	Motion and Reason (check one)	X 'Related' is mutually agreed upon. (Needs no motion.) GO TO "Persuasive" subsection						

	Motion and	X	Negative is related a	ınd not p	ersuasive. (Needs ≥2/3 vot	es to pass.)		
Per	Reason (check one)		Reason	Edito	Editorial in nature, removing redundant sections.			
Persuasive	Motion by/ 2 nd by		Chuck Dale / Veolia \ond: Lindsey Sullivan		olutions			
Vе	Discussion	Non	ne					
	Result of Vote (check one)	11 Y-0 N; Motion passed/failed.						
		X	2/3 ≤ [Negative is re and not persuasive.]		GO TO "Final" subsectio	n → (C)		
			(A) W	ithdrawn	(counted under h in disp	osition)		
			(B) N	ot related	d (counted under i in dispo	osition)		
	(check if	X	(C) R	elated ar	nd not persuasive (significar	nt)		
Final	applicable)		(D) N	Not significant (counted under j in disposition)				
a			, , , , , , , , , , , , , , , , , , ,	Related and persuasive and not addressed by technical change		DOCUMENT FAILS		
			(F) A	Addressed by technical change (counted under k disposition				
	(check if applicable)	X	Comment generated	generated. See Section V-(ii) Comment # NC-4.				

Negative 7 (SG07)

1109	alive / (300/)										
Z	Referenced Section/	*TF/TC Chapter to fill in, including text in the ballot if necessary.									
Negative	Paragraph	4.2, fourth item									
ive	Negative Text	Negative: Remove " Reason/Justification:	Reason/Justification: The parenthetical phrase is not part of the title of 49CFR178.707.								
	Withdrawal (check one)	X No Negative with	drawal made by Voter.	GO TO "Related" subsection							
Rela ted	Motion and Reason (check one)	X 'Related' is mutua	'Related' is mutually agreed upon. (Needs no motion.) GO TO "Per subsection"								
	Motion and Reason (check one)	X Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)									
Per		Reason									
Persuasive	Motion by/ 2 nd by		By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions								
۷e	Discussion	None									
	Result of Vote	11 Y -0 N ; Motion pass	sed/failed.								
	(check one)	X 2/3 ≤ [Negative is and not persuasive	related (Polyce) GO TO "Final" subsection	on → (C)							
		(A)	Withdrawn (counted under h in disp	position)							
Final	(check if	(B)	Not related (counted under i in disp	osition)							
ıal	applicable)	X (C)	Related and not persuasive (significa	nt)							
		(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 (coun	ted under k disposition)

Negative 8 (SG08)

neg	ative 8 (SG08)										
Negative	Referenced Section/ Paragraph	*TF/		l in, ir	cludi	ng text in the ballot if nec	essary.				
ıtive	Negative Text		Negative: Change "UPW or" to "UPW, or" Reason/Justification: SEMI's Style Manual requires the use of Oxford commas.								
	Withdrawal (check one)	X	No Negative with	drawa	l mad	e by Voter.	GO TO "Related" subsection				
Rela ted	Motion and Reason (check one)	X	'Related' is mutua	GO TO "Persuasive" subsection							
	Motion and Reason	X	Negative is relate	d and	ersuasive. <mark>(Needs ≥2/3 vot</mark>	es to pass.)					
Per	(check one)	Reason			Editorial in nature, align with Style Manual Table 5-1, item 3						
Persuasive	Motion by/ 2 nd by		By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions								
Ve	Discussion	Non	None								
	Result of Vote	11 Y	′ -0 N ; Motion pass	sed/fa	iled.						
	(check one)	X	2/3 ≤ [Negative is and not persuasiv			GO TO "Final" subsectio	n → (C)				
			(A)	With	drawn	(counted under h in disp	osition)				
			(B)	Not i	elated	l (counted under i in dispo	osition)				
	(check if	X	(C)	Rela	ted an	d not persuasive (significar	nt)				
Final	applicable)		(D)	Not s	signific	cant (counted under j in di	sposition)				
ıal			(E)	Related and persuasive and not addressed by technical change			DOCUMENT FAILS				
			(F)	Addr	essed	by technical change (coun	ted under k disposition)				
	(check if applicable)	X	Comment genera	ted. S	ee Se	ection V-(ii) Comment # NC	C-6.				

Negative 9 (SG09)

Neg	Referenced Section/ Paragraph		*TF/TC Chapter to fill in, including text in the ballot if necessary. 5.2.5							
Negative	Negative Text	Rea	ative: Change "solute" to "solvent" son/Justification: The water is the substance into which olved; water is not the substance being dissolved.	n the "chemical" is being						
	Withdrawal (check one)	X	No Negative withdrawal made by Voter.	GO TO "Related" subsection						
Rela ted	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection						

			_							-		
	F	otion and Reason neck one)	X	Nega	gative is related and persuasive. (Needs >1/3 votes to pass.)							
	Me	otion by/ 2 nd by			McIntosh / GF Piping Systems : Lindsey Sullivan / FTD Solutions							
Pers	Dis	scussion	Non	е								
Persuasive			7 Y-	0 N ;	; Motion passed.							
ive		ult of Vote neck one)	X			re is related and ive.] > 1/3	Is a technical change recommended?	X	Y	GO TO "Address by Technical Change Option" subsection		
			pers		ative is related and not uasive.] < 2/3		(check one)		N	GO TO "Final" subsection → (E)		
		nical Chan										
	Origi fields		/para	ıgrap	h n	umber and at least	one full sentence	are	requ	uired in "FROM" and "TO"		
	Heius		Sect	ion/P	ara	graph 5.2.5						
			0001	.0,.	u. u	graph oizio						
	 -	5.2.5 athe chem		n — c	oml	oination of a chemical a	and DIW, UPW, or o	other s	olute	e to create a lower concentration of		
	Technical Changes	TO: Se	ction	/Para	agraph 5.2.5							
	nica	10.36	Ction	etion/Paragraph 5.2.5								
	al C			<i>lilution</i> — combination of a chemical and DIW, UPW, or other solutesolvent to create a lower ation of the chemical.								
	har	concentr	ation	of the	che	emical.						
dc	nge											
lres	S	Justific	catio	n (lf r	nec	essary)						
ig Si		Materia	l was	inad	vert	ently typed incorrectl	v. Updated to the o	corre	ct ma	aterial.		
) Te					, ,							
)chr	Motic	on			Neg	ative is addressed b	y the technical cha	inge(s).			
Address by Technical (Motic	on by/2 nd b	y		By: Lindsey Sullivan / FTD Solutions Second: Bob McIntosh / GF Piping Systems							
Cha	Discu	ussion			None							
hange					9 Y-0 N; Motion passed.							
Option		Result of V			X	2/3 ≤ [Negative is a change(s).]	ddressed by the te	chnic	cal	GO TO "Incorporation of the Technical Change" subsection		
						[Negative is not add change(s).] < 2/3	ressed by the tech	nnical		GO TO "Final" subsection → (E)		
		Motion		ŀ	To i	ncorporate the tech	nical change(s).					
	Incorporation of the Technical Change	Motion by	/2 nd k	οv	Ву:	David Kandiyeli / Me ond: Jim Cannon / M	ga Fluid Systems,					
	nic	Discussio	n		Nor	ne						
	atio				9 Y.	-0 N; Motion passed.						
	ncorporation of the Technical Change	Result o			X	90% ≤ [Agree to inc	orporate.]			GO TO "Final" subsection → (F)		
	he e	(check	one)			[Disagree to incorpo	orate.]>10%			GO TO "Final" subsection → (E)		
a T	(0	check if			(A) Withdrawr	(counted under	h in (disp	osition)		
<u> </u>	applicable)					(B) Not related (counted under i in disposition)						

			(C)	Related and not persuasive (significant)						
			(D)	sposition)						
			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS					
		X	(F)	Addressed by technical change (coun	ted under k disposition)					

Negative 10 (SG10)

Neg	legative 10 (SG10)											
Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary. 5.2.7										
tive	Negative Text	_	Negative: Remove the term from Terminology. Reason/Justification: A search did not find "filter shock" used in the document.									
	Withdrawal (check one)	X	No Negative without	drawa	al made by Voter.	GO TO "Related" subsection						
Rela ted	Motion and Reason (Check one) **Related' is mutually agreed upon. (Needs no motion.)					GO TO "Persuasive" subsection						
	Motion and Reason	X	Negative is related	d and	l not persuasive. <mark>(Needs ≥2/3 vot</mark> e	es to pass.)						
Per	(check one)		Reason		Editorial to remove definition, anywhere in the document.	nove definition, the term does not appear document.						
Persuasive	Motion by/ 2 nd by		By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions									
é	Discussion	None										
	Result of Vote	11 Y -0 N ; Motion passed/failed.										
	(check one)	X	X 2/3 ≤ [Negative is related and not persuasive.] < 90% GO TO "Final" subsection → (C)									
			(A)	With	drawn <mark>(counted under h in disp</mark> e	osition)						
			(B)	Not	related (counted under i in dispo	osition)						
	(check if	X	(C)	Rela	ted and not persuasive (significan	t)						
Final	applicable)		(D)	Not :	significant (counted under j in dis	sposition)						
a			(E)	addr	ted and persuasive and not essed by technical change	DOCUMENT FAILS						
			(F)	Addı	essed by technical change (coun	ted under k disposition)						
	(check if applicable)	X	Comment generat	ted. S	See Section V-(ii) Comment # NC	D-7.						

Negative 11 (SG11)

z	Referenced	*TF/TC Chapter to fill in, including text in the ballot if necessary.
Negative	Section/ Paragraph	5.2.8
ive	TVALLAVITEDAIA	Negative: Change "waste or" to "waste, or" Reason/Justification: SEMI's Style Manual requires the use of Oxford commas.
	Withdrawal (check one)	X No Negative withdrawal made by Voter. GO TO "Related" subsection

Rela ted	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.) GO TO "Persuasive" subsection									
	Motion and Reason	X	Negative is related	legative is related and not persuasive. (Needs ≥2/3 votes to pass.)								
Per	(check one)		Reason	Edito	orial in nature, align with Sty	rle Manual Table 5-1, item 3						
Persuasive	Motion by/ 2 nd by		By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions									
۷e	Discussion	Non	None									
	Result of Vote (check one)	11 Y-0 N; Motion passed/failed.										
		X		$2/3$ ≤ [Negative is related and not persuasive.] < 90% GO TO "Final" subsection \rightarrow (C)								
			(A)	Withdraw	n (counted under h in disp	position)						
			(B)	Not relate	d (counted under i in disp	osition)						
	(check if	X	(C)	Related a	nd not persuasive (significa	nt)						
Fina	applicable)		(D)	Not signif	cant (counted under j in d	lisposition)						
a					nd persuasive and not d by technical change	DOCUMENT FAILS						
			(F)	Addressed by technical change (counted under k disposition								
	(check if applicable)	X	Comment generat	ed. <mark>See S</mark>	ection V-(ii) Comment # N	IC-8.						

Negative 12 (SG12)

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to 1 5.2.11	fill in, including	text in the ballot if nece	essary.						
ive	Negative Text		Negative: Change "solid or" to "solid, or" Reason/Justification: SEMI's Style Manual requires the use of Oxford commas.								
	Withdrawal (check one)	X No Negative with	thdrawal made t	oy Voter.	GO TO "Related" subsection						
Rela ted	Motion and Reason (check one)	X 'Related' is mut	ually agreed upo	on. (Needs no motion.)	GO TO "Persuasive" subsection						
	Motion and Reason (check one)	X Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)									
Per		Reason	Editoria	e Manual Table 5-1, item 3							
Persuasive	Motion by/ 2 nd by	By: Chuck Dale / Ve Second: Lindsey Su		utions							
۷e	Discussion	None									
	Result of Vote	11 Y -0 N ; Motion pa	ssed/failed.								
	(check one)	X 2/3 ≤ [Negative and not persuas		O TO "Final" subsection	n → (C)						
П	(-11 -16	(A)	Withdrawn (c	counted under h in dispo	osition)						
Final	(check if applicable)	(B)	Not related (counted under i in dispo	osition)						
		X (C)	Related and	not persuasive (significan	t)						

(D) Not significant (counted under j in disposition)				sposition)		
		/ - \	Related and persuasive and not addressed by technical change	DOCUMENT FAILS		
		(F)	Addressed by technical change (coun	ted under k disposition)		
(check if applicable)	X	Comment genera	nerated. See Section V-(ii) Comment # NC-9.			

Neg	at	tive 13 (SG13) *TF/TC Chapter to fill in, including text in the ballot if necessary.													
N€				enced ion/		•	r to fill in, includi	ng text in the bal	lot if	nec	essary.				
Negative		_		raph	5.2.	17									
				e Text			re: Change "the system" to "a system" o/Justification: There's no specific system to which this refers.								
		ithd necl	K OI	ne)	X	No Negativ	e withdrawal mad	GO TO "Related" subsection							
Rela ted		R	eas	n and son cone)	X	'Related' is	mutually agreed (ıpon. <mark>(Needs no</mark> r	notio	n.)	GO TO "Persuasive" subsection				
	Motion and Reason (check one)				X	Negative is	related and persu	uasive. (Needs >1/	/3 vo	tes t	o pass.)				
			tio 2 nd	n by/ by			sh / GF Piping Sys y Sullivan / FTD S								
Persuasive		Dis	cu	ssion	Non	е									
uasi					7 Y-	0 N; Motion	passed.								
Ve	_					[Negative is persuasive.	s related and .] > 1/3	Is a technical change recommended?	X	Y	GO TO "Address by Technical Change Option" subsection				
						[Negative is persuasive.	s related and not .] < 2/3	(check one)		N	GO TO "Final" subsection → (E)				
	Oı		nal			ecommenda Igraph num		one full sentence	are	requ	ired in "FROM" and "TO"				
Add				FROM:	Section/Paragraph 5.2.17										
Address by Techn		Tec		5.2.17 pu	umping — a mechanical technique used to create hydraulic force in the system.										
y T		hnic		TO: Sec	ection/Paragraph 5.2.17 (numbering updated from precious changes)										
		<u>ن</u>	1	5.2.17 <u>5.3</u>	5.3.11 pumping — a mechanical technique used to create hydraulic force in the system.										
cal C	9	Sapaes		Justific	ication (If necessary)										
ical Change Optior	ľ	ח		Remove	ove "in the system" provide clarity since There's no specific system to which this refers.										
e Op	M	Motion Negative is addressed by the technical change(s).								s).					
tion	M	otio	n b	y/2 nd by	,		By: Lindsey Sullivan / FTD Solutions Second: Bob McIntosh / GF Piping Systems								
	Di	scu	ssi	on		None									

				9 Y-	0 N; Moti	on passed.					
	Result of Vote (check one)				2/3 ≤ [Ne change(s	egative is addressed by the technical 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 i	ncorporat	te the technical change(s).					
	Incorporation of the Technical Change	Motion by/2	2 nd by			ndiyeli / Mega Fluid Systems, Inc. Cannon / Mettler Toledo Thornton					
	ora nica	Discussion		Nor	None						
	ntio al C			9 Y-	9 Y-0 N; Motion passed.						
	on of the Change	Result of		X	90% ≤ [A	gree to incorporate.]	GO TO "Final" subsection → (F)				
	he Je	(check one)			[Disagree to incorporate.]>10%		GO TO "Final" subsection → (E)				
				(A)	Withdrawn <mark>(counted under h in dis</mark> p	oosition)				
				(В)	Not related (counted under i in disposition)					
Ţ.	(0	check if		(C)	Related and not persuasive (significa	nt)				
Final	•	plicable)		(D)		Not significant <mark>(counted under j in d</mark>	isposition)				
				(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS				
			X	(F)	Addressed by technical change (cour	nted under k disposition)				

Negative 14 (SG14)

egative 14 (SG14)								
Referenced Section/	*TF/TC Chapter to fill in, including text in the ballot if necessary.							
Paragraph	6.2.2							
Negative Text	Rea	son/Justification:						
	X	No Negative withou	Irawal mad	e by Voter.	GO TO "Related" subsection			
Motion and Reason (check one)	X	'Related' is mutua	lly agreed ι	GO TO "Persuasive" subsection				
Motion and Reason (check one)	X	Negative is related	d and not p	not persuasive. (Needs ≥2/3 votes to pass.)				
		Reason	Addre	essed by Negative 15 (SG15	5).			
Motion by/ 2 nd by								
Discussion	Non	е						
Result of Vote	11 Y	'-0 N; Motion pass	ed/failed.					
(check one)	X			GO TO "Final" subsectio	n → (C)			
(check if		(A)	Withdrawn	(counted under h in disp	osition)			
applicable)		(B)	Not related	d (counted under i in dispo	osition)			
	Referenced Section/ Paragraph Negative Text Withdrawal (check one) Motion and Reason (check one) Motion by/ 2 nd by Discussion Result of Vote (check one) (check if	Referenced Section/ Paragraph 6.2.3 Negative Text Reastati Withdrawal (check one) Motion and Reason (check one) Motion by/ 2 nd by Discussion Result of Vote (check one) (check if	Referenced Section/ Paragraph Negative Text Negative: Change "w Reason/Justification: stating the conditions u Withdrawal (check one) Motion and Reason (check one) Motion by/ 2 nd by Discussion Result of Vote (check one) (check if *TF/TC Chapter to fill 6.2.2 Negative: Change "w Reason/Justification: stating the conditions u X No Negative without 'Related' is mutual Reason Result of Vote (check one) *TF/TC Chapter to fill 6.2.2 Negative: Change "w Reason/Justification: stating the conditions u X No Negative without 'Related' is mutual Result of Vote (check one) *TF/TC Chapter to fill 6.2.2	Referenced Section/ Paragraph Negative Text Negative: Change "would consist Reason/Justification: Correct the stating the conditions under which Withdrawal (check one) Motion and Reason (check one) Motion and Reason (check one) Motion by/ 2 nd by Discussion Result of Vote (check one) (check if X TF/TC Chapter to fill in, including i	Referenced Section/ Paragraph Negative Text Negative Text Negative Text Negative Text Negative: Change "would consist of" to "consists of" Reason/Justification: Correct the grammar. It is incorrect stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under which the hypothetical statement of the stating the conditions under wh			

			(C)	t)	
			(D)	Not significant (counted under j in disposition)	
			/ - \	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
			(F)	Addressed by technical change (coun	ted under k disposition)

Neg	ative 15 (SG15)										
	Re	fere	nced	*TF/	TC Chapter to fill in, includi	ng text in the ball	ot if	nec	essary.		
	_	ecti		6.2.2							
	Pa	ıragı	aph	0.2.2							
				Negative: Rewrite "Such a protocol would consist of a predefined sequence of events, which incorporatinges all of the physical activities incumbent to the tool							
Veg				design operation and testing parameters,; and establishes check points for approvals							
Negative				at each stage."							
/e	Neg	ativ	e Text	to	"Such a protocol consists of	of a predefined se	eque	nce (of events, incorporating all		
					ne activities of the system o	-	-		_		
			che	ck points for approvals at ea	ach stage."						
						arious errors in str	uctur	e, pa	rallelism, and inconsistent use		
			_	of te	rms.						
	Witho			X	No Negative withdrawal made	e by Voter.			GO TO "Related" subsection		
	<u> </u>		and								
Rela ted		Reas		X	'Related' is mutually agreed ι	ıpon. <mark>(Needs no</mark> n	notic	n.)	GO TO "Persuasive" subsection		
	_		one) and								
		Reas		X Negative is related and persuasive. (Needs >1/3 votes to pass.)							
			one) by/	By: Bob McIntosh / GF Piping Systems							
		2 nd I		Second: Lindsey Sullivan / FTD Solutions							
Persuasive	Dis	scus	sion	None							
uas				7 Y-	0 N; Motion passed.						
ive	Result of Vote (check one)			X	[Negative is related and persuasive.] > 1/3	Is a technical change recommended?	X	Υ	GO TO "Address by Technical Change Option" subsection		
					[Negative is related and not persuasive.] < 2/3	(check one)		N	GO TO "Final" subsection → (E)		
Ad Techi		nal s			ecommendations graph number and at least (one full sentence	are	requ	ired in "FROM" and "TO"		
ddr iica			ROM:	Sect	ion/Paragraph 6.2.2						
Address by chnical Change	Technical Changes	1	would co	nsist	er should develop and follow a p of a predefined sequence of even testing parameters, and establish	its, incorporating all	of th	e acti	vities incumbent to the tool		

		TO: Section/Paragraph 6.2.2 6.2.2 The user should develop and follow a protocol for system installation and start-up. Such a protocol consists of a would consist of a predefined sequence of events, incorporating all of the activities incumbent to the tool of the system operation and testing parameters, and establishing check points for approvals at each stage.									
	Justification (If necessary) Rewritten to provide clarity.										
	Motic	on			Negative is addressed by the technical change(s).						
	Motic	on by/2 nd by	y				Sullivan / FTD Solutions McIntosh / GF Piping Systems				
ŀ	Disc	ussion			Nor		Womtosit / Of Tipling dystems				
					9 Y-0 N; Motion passed.						
	Result of Vote (check one)			X	2/3 ≤ [N change(GO TO "Incorporation of th Technical Change" subsection					
			•		[Negative is not addressed by the technical change(s).] < 2/3 GO TO "Final" subsection → (E)						
	_	Motion			To incorporate the technical change(s).						
	Incorporation of the Technical Change	Motion by/	2 nd I	ру	By: David Kandiyeli / Mega Fluid Systems, Inc. Second: Jim Cannon / Mettler Toledo Thornton						
	ora nica	Discussion	า		None						
	itior				9 Y -	0 N ; Mot	ion passed.				
	າ of tl hang	Result o			X	90% ≤ [/	Agree to incorporate.]	GO TO "Final" subsection → (F)			
	e fi (check one))		[Disagre	ee to incorporate.]>10%	GO TO "Final" subsection → (E)			
					(A)	Withdrawn (counted under h in disp	oosition)			
					(B)		Not related (counted under i in disp	osition)			
	(0	check if			(C)		Related and not persuasive (significa	nt)			
		applicable)			(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)			

Negative 16 (SG16)

	Referenced Section/	*TF/TC Chapter to fill in, including text in the ballot if necessary.
	Paragraph	6.3
Negative	Negative Text	Negative: Correct or explain the use of "user" in the first sentence and "purchaser" in the second sentence. Reason/Justification: It appears that the two are intended to refer to the same party, in which case the same term should be used. If they are intended to refer to different parties, it would help if the document explained why the "user" gets to establish the criteria that the "purchaser": uses to decide whether something is acceptable.

	Withdrawal (check one)	X	No Negative withd	rawal	made	e by Voter.	GO TO "Related" subsection			
Rela ted	Motion and Reason (check one)	X	'Related' is mutual	ly agre	GO TO "Persuasive" subsection					
	Motion and Reason	X	Negative is related	l and r	not pe	ersuasive. <mark>(Needs ≥2/3 vot</mark> e	es to pass.)			
Per	(check one)		Reason	E	Editorial, to stay consistent with term being used.					
Persuasive	Motion by/ 2 nd by		By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions							
Vе	Discussion	Non	one							
	Result of Vote (check one)	11 Y-0 N; Motion passed/failed.								
		X	2/3 ≤ [Negative is and not persuasive			GO TO "Final" subsectio	n → (C)			
			(A)	Withd	rawn	(counted under h in dispo	osition)			
			(B)	Not re	lated	(counted under i in dispo	osition)			
	(check if	X	(C)	Relate	ed an	d not persuasive (significan	cant)			
Final	applicable)		(D)	Not si	gnific	ant (counted under j in di	sposition)			
al				(E) Related and persuasivaddressed by technical			DOCUMENT FAILS			
			(F)	Addre	ssed	by technical change (coun	ted under k disposition)			
	(check if applicable)	X	Comment generate	ed. <mark>Se</mark>	e Se	ction V-(ii) Comment # NO	C-10.			

Negative 17 (SG17)

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary. 6.3								
ıtive	Negative Text	Negative: Change "customer and process": to "customer, and process". Reason/Justification: Oxford commas are required by the SEMI Style Manual.								
	Withdrawal (check one)	X No Negative withdraw	al made by Voter.	GO TO "Related" subsection						
Rela ted	Motion and Reason (check one)	X 'Related' is mutually agreed upon. (Needs no motion.) GO TO "Persuasive" subsection								
	Motion and Reason	X Negative is related and	d not persuasive. (Needs ≥2/3 vot	es to pass.)						
Pe	(check one)	Reason	Editorial to align with Style Manu	al Table 5-1, item 3						
Persuasive	Motion by/ 2 nd by	By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions								
'e	Discussion	None								
	Result of Vote	11 Y-0 N; Motion passed/fa	ailed.							
	(check one)	X 2/3 ≤ [Negative is related and not persuasive.] <		on → (C)						

			(A)	(A) Withdrawn (counted under h in disposition)				
	(check if applicable)		(B) Not related (counted under i in disposition (C) Related and not persuasive (significant)		in disposition)			
		X			ant)			
Final			(D)	Not significant (counted under j in c	disposition)			
a			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS			
			(F)	Addressed by technical change (cou	inted under k disposition)			
(check if applicable) X Comment generated. See Section V-(ii) Comment # NC-11.					VC-11.			

Negative 18 (SG18)

1109	egative 18 (SG18)									
	Referenced Section/		*TF/TC Chapter to fill in, including text in the ballot if necessary.							
N _e	Paragraph	6.4.	6.4.1.1 through 6.4.1.10							
Negative	Negative Text	Negative: Change these from numbered paragraphs to a bulleted list. Reason/Justification: These are not paragraphs, they are noun phrases. If there is a need to refer to any of them individually, a numbered list, instead of a bulleted list, may be used.								
	Withdrawal (check one)	X	No Negative with	ndrawal mad	e by Voter.	GO TO "Related" subsection				
Rela ted	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.) GO TO "Persuasive" subsection							
	Motion and Reason	X								
Pe	(check one)		Reason		rial to align with Style Manu leted list.	al Table 1-10, item 1 to convert				
Persuasive	Motion by/ 2 nd by		By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions							
Ф	Discussion	Non	е							
	Result of Vote	11 Y -0 N ; Motion passed/failed.								
	(check one)	X	2/3 ≤ [Negative i and not persuas		GO TO "Final" subsectio	n → (C)				
			(A)	Withdrawn	(counted under h in disp	osition)				
			(B)	Not related	d (counted under i in dispo	osition)				
	(check if	X	(C)	Related an	nd not persuasive (significar	nt)				
Final	applicable)		(D)	_	cant (counted under j in di	sposition)				
<u>a</u>			(E)	Related and persuasive and not addressed by technical change		DOCUMENT FAILS				
			(F)	Addressed	by technical change (coun	ted under k disposition)				
	(check if applicable)	X	Comment gener	ated. See Se	ection V-(ii) Comment # N	C-12.				

Negative 19 (SG 19)

Neg	ative 19 (56 1									
	Referenced Section/		*TF/TC Chapter to fill in, including text in the ballot if necessary.							
	Paragraph	6.5.	6.5.1 through 6.5.5							
Negative	Negative Text	Negative: Change these from numbered paragraphs to a bulleted list. Add commas and "and" appropriately. Do not capitalize each item or end each item with a period. Reason/Justification: These are not paragraphs, they are noun phrases. If there is a need to refer to any of them individually, a numbered list, instead of a bulleted list, may be used.								
	Withdrawal (check one)	X	No Negative withou	drawal mad	e by Voter.	GO TO "Related" subsection				
Rela ted	Motion and Reason (check one)	X	'Related' is mutua	Related' is mutually agreed upon. (Needs no motion.) GO TO "Persuasive" subsection						
	Motion and Reason	X	X Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)							
Per	(check one)		Reason		rial to align with Style Manualleted list.	al Table 1-10, item 1 to convert				
Persuasive	Motion by/ 2 nd by	By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions								
۷e	Discussion	Non	е							
	Result of Vote	11 Y-0 N; Motion passed/failed.								
	(check one)	X	2/3 ≤ [Negative is and not persuasiv		GO TO "Final" subsectio	n → (C)				
			(A)	Withdrawr	(counted under h in dispe	osition)				
			(B)	Not related	d (counted under i in dispo	osition)				
	(check if	X	(C)	Related ar	nd not persuasive (significan	t)				
Final	applicable)		(D)		cant (counted under j in di	sposition)				
<u>a</u>			(E)	addressed	nd persuasive and not I by technical change	DOCUMENT FAILS				
			(F)	Addressed	by technical change (coun	ted under k disposition)				
(check if applicable) X Comment generated. See Section V-(ii) Comment # NC-13.						C-13.				

Negative 20 (SG20)

9	ative zo (ooze	_							
Z	Referenced Section/	*TF/	TF/TC Chapter to fill in, including text in the ballot if necessary.						
Negative	Paragraph	6.6							
ive	Negative Text	•	legative: Change "areas such as" to "in such things as" leason/Justification: The listed things are not "areas".						
	Withdrawal (check one)	X	No Negative withdrawal made by Voter.	GO TO "Related" subsection					
Rela ted	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection					
	Motion and Reason	X Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)							

	(check one)		Reason	Ed	Editorial to fix grammar and provide clarity.					
Persuasive	Motion by/ 2 nd by	By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions								
asi	Discussion	Non	е							
Ve	Result of Vote	11 Y	11 Y-0 N; Motion passed/failed.							
	(check one)	X	2/3 ≤ [Negative is and not persuasi	related ve.] < 90%	GO TO "Final" subsection → (C)					
			(A) Withdrawn (counted under h in disposition)							
	(check if		(B)	Not related (counted under i in disposition)						
Final	applicable)		(C)	Related	and not persuasive (significant)					
<u>a</u>			(D)	Not significant (counted under j in disposition)						
	(check if applicable) X Comment generated. See Section V-(ii) Comment # NC-14.									

Negative 21 (SG21)

	Referenced	_	Chapter to	fill in. ir	cludi	ng text in the ballot if ne	ecessarv.						
Z	Section/		•	,			•						
Negative	Paragraph	7.2											
ive	Negative Text	•	Negative: Change "e.g., drums" to "e.g., drum" Reason/Justification: The examples are of a singular noun.										
	Withdrawal (check one)	X No	Negative w	ithdrawa	l mad	e by Voter.	GO TO "Related" subsection						
Rela ted	Motion and Reason (check one)	X 'Re	elated' is mu	tually ag	GO TO "Persuasive" subsection								
	Motion and Reason	X Ne	gative is rela	ated and	not pe	ersuasive. <mark>(Needs ≥2/3 v</mark>	otes to pass.)						
Per	(check one)	Re	ason		ovide clarity.								
Persuasive	Motion by/ 2 nd by		By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions										
Уe	Discussion	None	lone										
	Result of Vote	11 Y -0 N ; Motion passed/failed.											
	(check one)		s ≤ [Negative d not persua			GO TO "Final" subsect	ion → (C)						
			(A)	With	drawn	(counted under h in dis	position)						
			(B)	Not i	elated	(counted under i in dis	position)						
	(check if	X	(C)	Rela	ted an	d not persuasive (signific	ant)						
Final	applicable)		(D)	Not	signific	ant (counted under j in	disposition)						
ıal			(E)			d persuasive and not by technical change	DOCUMENT FAILS						
			(F)	Addr	essed	by technical change (co	unted under k disposition)						
	(check if applicable)	X Co	mment gene	erated. S	ee Se	ction V-(ii) Comment #	NC-15.						

Negative 22 (SG22)

nega	ative	22	(SG22	2)							
	S	ect	enced ion/	* TF/ 7	TC Chapter to fill in, including	ng text in the ball	lot if	nec	essary.		
Negative			raph re Text	Nega Eithe and o Reas Seco	Negative: Move this to the Terminology section and format it correctly. Either delete "(used as an adjective)" or correct it to the form specified in the Style Manual and change the definition to one of an adjective, rather than a noun. Reason/Justification: This is a definition, not a recommendation of this Guide. Secondarily, should "distribution" be defined (as proposed here) to include moving from one point to one other point? To me "distribution" is moving from one point to more than one						
	Witho chec			X	No Negative withdrawal made	e by Voter.			GO TO "Related" subsection		
Rela ted	Mo F (ch	otioi Reas neck	n and son cone)	X	'Related' is mutually agreed u	pon. (Needs no n	notio	n.)	GO TO "Persuasive" subsection		
	F	Reas	n and son cone)	X	Negative is related and persu	asive. (Needs >1/	/3 vot	tes t	o pass.)		
		otio 2 nd	n by/ by	By: E Seco	Bob McIntosh / GF Piping Sysond: Lindsey Sullivan / FTD So	tems olutions					
Persi	Di	scu	ssion	None	,						
Persuasive	Result of Vote (check one) X [Ne personne]				[Negative is related and persuasive.] > 1/3 [Negative is related and not persuasive.] < 2/3	Is a technical change recommended? (check one)	X	Y	GO TO "Address by Technical Change Option" subsection GO TO "Final" subsection → (E)		
		nal s.	section/	para	commendations graph number and at least o on/Paragraph 7.4	one full sentence	are r	equ	ired in "FROM" and "TO"		
Addres	Tec		7.4 Distri	ibution (used as an adjective) — Movement of a material from one location to another.							
Address by Technical Change Option	Technical Changes	1	5.3 <mark>Đ</mark> dis other	tributi : locat	ion (used as an adjective) Mn ions.	ragraph Definitions section: 5.3 (used as an adjective) — Mmovement of a material from one location to another one or more s.					
Change (n (If necessary) provide clarity and moved to c	definitions section.	•				
)ptic	Motic	on			Negative is addressed by	the technical cha	nge(s	s).			
	Motio	n b	y/2 nd by	,	By: Lindsey Sullivan / FTI Second: Bob McIntosh / (s				
	Disc	ıssi	on		None	, , ,					
		Res	sult of V	ote	9 Y-0 N; Motion passed.						

		(check on	e)	X	2/3 ≤ [Ne change(s	egative is addressed by the technical 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 i	To incorporate the technical change(s).						
	Incorporation Technical Cr	Motion by/2	2 nd by		By: David Kandiyeli / Mega Fluid Systems, Inc. Second: Jim Cannon / Mettler Toledo Thornton						
	ora	Discussion)	Nor	None						
	atio al C			9 Y-	9 Y-0 N; Motion passed.						
	nar of	Result of Vote (check one)		X	90% ≤ [Agree to incorporate.]		GO TO "Final" subsection → (F)				
	the ige				[Disagree to incorporate.]>10%		GO TO "Final" subsection → (E)				
				(A)	Withdrawn (counted under h in disp	oosition)				
Fina	•	(check if applicable)		(В)	Not related (counted under i in disp	osition)				
a	ар			(C)	Related and not persuasive (significant)					
			X	(F)	Addressed by technical change (counted under k disposition)					

Negative 23 (SG23)

3	ative 25 (002)	<u>'</u>								
Negative	Referenced Section/ Paragraph	7.6								
tive	Negative Text	Negative: Change "optical and electronic" to "optical, and electronic". Reason/Justification: Oxford commas are required by the SEMI Style Manual.								
	Withdrawal (check one)	X	No Negative without	drawal	made	e by Voter.	GO TO "Related" subsection			
Rela ted	Motion and Reason (check one)	X 'Related' is mutually agreed upon. (Needs no motion.) GO TO "Persuasival subsection"								
	Motion and Reason	X	X Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)							
Per	(check one)	Reason			Editorial to align with Style Manual Table 5-1, item 3					
Persuasive	Motion by/ 2 nd by	By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions								
\ e	Discussion	Non	е							
	Result of Vote	11 Y	'-0 N ; Motion pass	ed/fail	ed.					
	(check one)	X	2/3 ≤ [Negative is and not persuasiv			GO TO "Final" subsectio	n → (C)			
			(A)	Withd	Irawn	(counted under h in dispo	osition)			
	(check if		(B)	Not re	elated	(counted under i in dispo	osition)			
Final	applicable)	X	(C)	Relat	ed an	d not persuasive (significan	t)			
<u>a</u>			(D)	Not s	ignific	ant <mark>(counted under j in di</mark>	sposition)			
	(check if applicable)	X Comment generated. See Section V-(ii) Comment # NC-16.								

Negative 24 (SG24)

neg	atıv	e 24	4 (SG24	!)								
			enced tion/	nec	essary.							
Ne	Р	araç	graph	7.6.1								
Negative	Ne	gati	ve Text	Rea As t	native: Rewrite this for clarity. ison/Justification: I don't un the items in the bullet list are list itioned individually".	derstand how an "						
	With (che			X	GO TO "Related" subsection							
Rela ted		Rea	n and son k one)	X	'Related' is mutually agreed ι	upon. <mark>(Needs no</mark> r	notio	n.)	GO TO "Persuasive" subsection			
		Rea	n and son k one)	X	Negative is related and persu	uasive. (Needs >1	/3 vo	tes t	to pass.)			
	M		on by/ by		Bob McIntosh / GF Piping Sys ond: Lindsey Sullivan / FTD S							
Pe	D		ssion	Non	•	Olutions						
Persuasive				7 Y-	·0 N ; Motion passed.							
sive			of Vote k one)	X	[Negative is related and persuasive.] > 1/3	GO TO "Address by Technical Change Option" subsection						
					[Negative is related and not persuasive.] < 2/3	(check one)		N	GO TO "Final" subsection → (E)			
	Orig	inal	section	para		one full sentence	are I	requ	uired in "FROM" and "TO"			
Address by Technical Change Option	• comparison (difference or gradient) • control parameters, operational functions and maintenance diagnostics											
			Rewritte	n to	correct inconsistencies in grar	mmar and intent of	f the p	oara	graph.			

Motion					Neg	ative is a	addressed by the technical change(s).					
Мо	otio	n by/2 nd by	/		By: Lindsey Sullivan / FTD Solutions Second: Bob McIntosh / GF Piping Systems							
Dis	Discussion			Nor								
						9 Y-0 N; Motion passed.						
	Result of Vote (check one)				X	2/3 ≤ [N change	legative is addressed by the technical (s).]	GO TO "Incorporation of the Technical Change" subsection				
						ve is not addressed by the technical (s).] < 2/3	GO TO "Final" subsection → (E)					
		Motion			To incorporate the technical change(s).							
Technical	ncor	Motion by/	2 nd b	у	By: David Kandiyeli / Mega Fluid Systems, Inc. Second: Jim Cannon / Mettler Toledo Thornton							
nic	Motion Disconnection Technical Ch	Discussior)		Nor							
al C	atio				9 Y-0 N; Motion passed.							
Change	n of the	Result o		-	X	90% ≤ [Agree to incorporate.]		GO TO "Final" subsection → (F)				
Je	he	(check	one)		[Disagree to incorporate.]>10%		ee to incorporate.]>10%	GO TO "Final" subsection → (E)				
					(A)	Withdrawn (counted under h in disp	position)				
					(B)	Not related (counted under i in disp	oosition)				
	(c	heck if			(C)	Related and not persuasive (significa	Related and not persuasive (significant)				
		plicable)			(D)	Not significant (counted under j in d	lisposition)				
					(F)		Related and persuasive and not addressed by technical change	DOCUMENT FAILS				
			X		(F)	Addressed by technical change (cou	nted under k disposition)				

Negative 25 (SG25)

z	Referenced	*TF/	TC Chapter to fill in, in	ncluding text in the ballot if nec	essary.					
Negative	Section/ Paragraph	7.7								
Negative Text Negative: Change "circulates or" to "circulates, or". Reason/Justification: Oxford commas are required by the SEMI Style Man										
	Withdrawal (check one)	X	No Negative withdrawa	al made by Voter.	GO TO "Related" subsection					
Rela ted	Motion and Reason (check one)	X	'Related' is mutually aç	greed upon. (Needs no motion.)	GO TO "Persuasive" subsection					
	Motion and	X	Negative is related and	es to pass.)						
Persuasive	Reason (check one)		Reason	Editorial to align with Style Manu	al Table 5-1, item 3					
asive	Motion by/ 2 nd by		By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions							
	Discussion	None								
		11 Y	'-0 N ; Motion passed/fa	niled.						

	Result of Vote (check one)	X	2/3 ≤ [Negative is and not persuasiv		GO TO "Final" subsection → (C)					
			(A)	Withdrawn	Withdrawn (counted under h in disposition)					
			(B)	Not related	Not related (counted under i in disposition)					
	(check if	X	(C)	Related an	nt)					
Final	applicable)		(D)	Not significant (counted under j in disposition)						
a				d persuasive and not by technical change	DOCUMENT FAILS					
			(F)	Addressed by technical change (counted under k dispositi						
	(check if applicable)	X	Comment general	ated. See Section V-(ii) Comment # NC-17.						

Negative 26 (SG26)

INCY	gative 26 (SG26)											
_	Referenced Section/	*TF/	TC Chapter to fill	l in, ir	ncluding text in the ballot if nec	essary.						
Negative	Paragraph	7.12										
tive	Negative Text	•	Negative: Change "The use of a clean ammonia gas source" to "Clean ammonia gas' Reason/Justification: Neither the source or its use is reacted.									
	Withdrawal (check one)	X	No Negative with	drawa	al made by Voter.	GO TO "Related" subsection						
Rela ted	Motion and Reason (check one)	X	'Related' is mutua	ally ag	greed upon. (Needs no motion.)	GO TO "Persuasive" subsection						
	Motion and Reason	X	Negative is relate	d and	l not persuasive. (Needs ≥2/3 vot	es to pass.)						
Pe	(check one)		Reason	ide clarity.								
Persuasive	Motion by/ 2 nd by		By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions									
Ø	Discussion	None										
	Result of Vote	11 Y-0 N; Motion passed/failed.										
	(check one)	X	2/3 ≤ [Negative is and not persuasiv			n → (C)						
			(A)	With	drawn (counted under h in disp	osition)						
			(B)	Not	related <mark>(counted under i in disp</mark> o	osition)						
	(check if	X	(C)	Rela	ted and not persuasive (significar	nt)						
Final	applicable)		(D)	Not :	significant <mark>(counted under j in di</mark>	sposition)						
<u>a</u>			(E)	addr	ited and persuasive and not ressed by technical change	DOCUMENT FAILS						
			(F)	Addı	ressed by technical change (coun	ted under k disposition)						
	(check if applicable)	X	Comment genera	ted. S	See Section V-(ii) Comment # NO	C-18.						

Negative 27 (SG27)

1109	alive 21 (SGZI											
N	Referenced Section/		·	in, includ	ing text in the ballot if nec	essary.						
Negative	Paragraph	7.13										
ive	Negative Text	Negative: Change "recycling or" to "recycling, or".										
	_	Rea	son/Justification:	Oxford col	mmas are required by the SE							
	Withdrawal (check one)	X	No Negative without	drawal mad	le by Voter.	GO TO "Related" subsection						
Rela ted	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.) GO TO "Persuasive" subsection									
	Motion and Reason	X	Negative is related	d and not p	ersuasive. <mark>(Needs ≥2/3 vot</mark>	es to pass.)						
Per	(check one)		Reason	Edito	rial to align with Style Manu	al Table 5-1, item 3						
Persuasive	Motion by/ 2 nd by		By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions									
Ve	Discussion	Non	None									
	Result of Vote	11 Y	7-0 N; Motion pass	ed/failed.								
	(check one)	X	2/3 ≤ [Negative is and not persuasiv		GO TO "Final" subsectio	n → (C)						
			(A)	Withdrawr	(counted under h in disp	osition)						
			(B)	Not relate	d (counted under i in dispo	osition)						
	(check if	X	(C)	Related a	nd not persuasive (significan	t)						
Final	applicable)		(D)	Not signifi	cant (counted under j in di	sposition)						
<u>a</u>			(E)	addressed	nd persuasive and not I by technical change	DOCUMENT FAILS						
			(F)	Addressed	d by technical change <mark>(coun</mark>	ted under k disposition)						
	(check if applicable)	X	Comment general	ted. See Se	ection V-(ii) Comment # NO	D-19.						

Negative 28 (SG28)

_	Referenced Section/ Paragraph	*TF/	*TF/TC Chapter to fill in, including text in the ballot if necessary. 8.2								
Negative	Negative Text	clea "Sud mat Rea	Negative: Change "Such a system can enable the chemical to reenter the system as a clean source of material for this or other manufacturing processes." to "Such a system can enable the chemical to reenter the system as a clean source of material for this or other manufacturing processes." Reason/Justification: The reprocessed material is a "material", not a "source". There is no antecedent process for "this".								
	Withdrawal (check one)	X	No Negative withdrawal made by Voter.	GO TO "Related" subsection							
Rela ted	Motion and Reason (check one)	X 'Related' is mutually agreed upon. (Needs no motion.) GO TO "Persuasive subsection"									
	Motion and Reason (check one)	Reason X Negative is related and persuasive. (Needs >1/3 votes to pass.)									

			on by/ l by				ntosh / GF Pipin dsey Sullivan / F							
			ission	Non										
ers				7 Y-	0 N; Motion passed.									
Persuasive		(check one)					ve is related and ive.] > 1/3		Is a technical change recommended?	X	Υ	GO TO "Address by Technical Change Option" subsection		
					persu	Jas	re is related and ive.] < 2/3	d not	(check one)		N	GO TO "Final" subsection → (E)		
		nal					ndations umber and at I	least c	one full sentence	are	requ	uired in "FROM" and "TO"		
			FROM:	: Section/Paragraph 8.2										
	Tech		a chemic of materi	rocessing — A chemical reprocessing unit which purifies or recycles a chemical can be integrated very call distribution system. Such a system can enable the chemical to reenter the system as a clean sour rial for this or other manufacturing processes. Reprocessing can help minimize waste and mental impact.										
Address	Technical Changes	1	a chemic of-materi environm	ocessi al dis al for nental	cessing — A chemical reprocessing unit which purifies or recycles a chemical can be integrated with a distribution system. Such a system can enable the chemical to reenter the system as a clean source of this or other manufacturing processes. Reprocessing can help minimize waste and ental impact.									
Address by Technical Char			Justific Rewritte											
nica	Moti	Motion					ative is address	sed by	the technical cha	ange(s).			
ıl Cha	Moti	on l	by/2 nd by	,		By: Lindsey Sullivan / FTD Solutions Second: Bob McIntosh / GF Piping Systems								
ıge	Disc	uss	ion		١	None								
Option					9	γ.	-0 N ; Motion pa	ssed.						
on		_	sult of V		>	(change(s).]		Idressed by the te			GO TO "Incorporation of the Technical Change" subsection		
							[Negative is no change(s).] < 2		ressed by the tech	nnica	l	GO TO "Final" subsection → (E)		
	. =	Mo	otion				-		nical change(s).					
	ncorp Tech		otion by/						ga Fluid Systems, ettler Toledo Thor					
	ora nica	Di	scussion	1		Vor								
	i ci				9	Υ.	-0 N; Motion pas	ssed.				100 TO "EL III :		
	Incorporation of the Technical Change		Result o			(90% ≤ [Agree	to inco	orporate.]			GO TO "Final" subsection → (F)		
	э Э		(check one)				[Disagree to in	corpoi	rate.]>10%			GO TO "Final" subsection → (E)		
a I			ck if			((A) Without	drawn	(counted under	h in	disp	osition)		
= 5	applicable)				(B) Not r	elated	(counted under	i in d	dispo	osition)			

		(C)	Related and not persuasive (significant)					
		(D)	(D) Not significant (counted under j in disposition)					
		(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS				
	X	(F)	Addressed by technical change (coun	ted under k disposition)				

Neg	Negative 29 (SG29)									
			enced	*TF/	TC Chapter to fill in, including	ng text in the bal	lot if	nec	essary.	
Vega			tion/ graph	8.3						
Negative			ve Text	_	ative: Move this to the Termi son/Justification: This is a c	• • • • • • • • • • • • • • • • • • • •			t correctly ation of this Guide.:	
	With (che	ck o	ne)	X	No Negative withdrawal made	•			GO TO "Related" subsection	
Rela ted		Rea	n and son k one)	X	'Related' is mutually agreed u	ıpon. <mark>(Needs no</mark> r	notio	on.)	GO TO "Persuasive" subsection	
	(c	Rea hec	n and son k one)	X	Negative is related and persu	asive. (Needs >1/	/3 vo	tes t	to pass.)	
	IV	lotio 2 nd	on by/ by		Bob McIntosh / GF Piping Sys ond: Lindsey Sullivan / FTD So					
Persuasive	D	iscu	ssion	Non	None					
uasi				7 Y-	0 N; Motion passed.					
ve		Result of Vote (check one) X [Ne pers			[Negative is related and persuasive.] > 1/3	Is a technical change recommended?	X	Υ	GO TO "Address by Technical Change Option" subsection	
					[Negative is related and not persuasive.] < 2/3	(check one)		N	GO TO "Final" subsection → (E)	
		inal			ecommendations Igraph number and at least o	one full sentence	are	requ	uired in "FROM" and "TO"	
Address by Technical Cl	Technical Changes	1	8.3 Metr the c	rology hemi rology	/Paragraph 8.3 Devices placed at strategic to	ocations within the p	oroce:	ss to :	monitor or qualify the condition of monitor or qualify the condition of gic locations within the process to	
nical Change Option	es		Justific	atio	ation (If necessary) n as a recommendation of how to employ a design feature.					
ř	Moti	on			Negative is addressed by	the technical cha	nge(s).		
	Moti	on k	oy/2 nd by	,	By: Lindsey Sullivan / FT Second: Bob McIntosh / (s			

	Discu	ıssion		No	None					
ľ				9 Y	9 Y-0 N; Motion passed.					
	Result of Vote (check one)				2/3 ≤ [Ne change(s	egative is addressed by the technical s).]	GO TO "Incorporation of the Technical Change" subsection			
						e is not addressed by the technical s).] < 2/3	GO TO "Final" subsection → (E)			
		Motion		То	incorpora	te the technical change(s).				
	Technical Change Motion by/2 nd by Discussion Result of Vote (check one)			By: David Kandiyeli / Mega Fluid Systems, Inc. Second: Jim Cannon / Mettler Toledo Thornton						
	or:	Discussion		No	ne					
	atio al C		9 Y	9 Y-0 N; Motion passed.						
	on of the		Result of Vote		90% ≤ [A	Agree to incorporate.]	GO TO "Final" subsection → (F)			
	he Je	(check one)			[Disagree to incorporate.]>10%		GO TO "Final" subsection → (E)			
				((A)	Withdrawn <mark>(counted under h in disp</mark>	oosition)			
				((B)	Not related (counted under i in disposition)				
1	(c	check if		((C)	Related and not persuasive (significa	nt)			
Π 2	applicable)			((D)	Not significant <mark>(counted under j in d</mark>	isposition)			
					(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS			
			X		(F)	Addressed by technical change (counted under k disposition)				

Negative 30 (SG30)

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary. 9.3										
itive	Negative Text		degative: Change "calibration) and other" to "calibration), and other". deason/Justification: Oxford commas are required by the SEMI Style Manual.									
	Withdrawal (check one)	X No Negative withdrawa	al made by Voter.	GO TO "Related" subsection								
Rela ted	Motion and Reason (check one)	X 'Related' is mutually ag	GO TO "Persuasive" subsection									
	Motion and Reason	X Negative is related and	I not persuasive. <mark>(Needs ≥2/3 vot</mark>	es to pass.)								
Per	(check one)	Reason	Editorial to align with Style Manu	al Table 5-1, item 3								
Persuasive	Motion by/ 2 nd by	By: Chuck Dale / Veolia Wa Second: Lindsey Sullivan / I										
Ve	Discussion	None										
	Result of Vote	11 Y-0 N; Motion passed/failed.										
	(check one)	X 2/3 ≤ [Negative is related and not persuasive.] <		on → (C)								
п		(A) With	drawn (counted under h in disp	osition)								

			(B)	Not related (counted under i in disposition)				
	(check if applicable)	X	(C)	Related and not persuasive (significant)				
			(D)	Not significant (counted under j in disposition)				
	арріісавіе)			Related and persuasive and not addressed by technical change	DOCUMENT FAILS			
			(F)	Addressed by technical change (counted under k disposition)				
	(check if applicable)	X	Comment generated. See Section V-(ii) Comment # NC-20.					

Negative 31 (SG31)

	alive 31 (303)	_									
	Referenced Section/		TC Chapter to fil	l in, ii	ncludi	ng text in the ballot if ned	cessary.				
Neg	Paragraph	9.3									
Negative	Negative Text	"Ma	Negative: Change "Maintenance and Preventative Maintenance — For BCDS" to 'Maintenance and Preventative Maintenance for BCDS" Reason/Justification: What follows the em dash is not a sentence.								
	Withdrawal (check one)	X	No Negative with	drawa	ıl mad	e by Voter.	GO TO "Related" subsection				
Rela ted	Motion and Reason (check one)	X	X 'Related' is mutually agreed upon. (Needs no motion.) GO TO "Persuasive" subsection								
	Motion and Reason (check one)	X	Negative is relate	ed and	not p	ersuasive. <mark>(Needs ≥2/3 vo</mark>	tes to pass.)				
Per			Reason		Editor clarity		front of the em dash to provide				
Persuasive	Motion by/ 2 nd by		By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions								
Ύe	Discussion	Non	None								
	Result of Vote	11 Y-0 N; Motion passed/failed.									
	(check one)	X	2/3 ≤ [Negative is and not persuasiv	relateve.] <	ed 90%	GO TO "Final" subsection	on → (C)				
			(A)	With	drawn	(counted under h in disp	oosition)				
			(B)	Not	elated	d (counted under i in disp	osition)				
	(check if	X	(C)	Rela	ted an	nd not persuasive (significa	nt)				
Final	applicable)		(D)			cant (counted under j in d	isposition)				
<u>a</u>			(E)	addr	essed	nd persuasive and not by technical change	DOCUMENT FAILS				
			(F)	Addı	essed	by technical change (cou	nted under k disposition)				
	(check if applicable)	X	Comment genera	ated. S	See Se	ection V-(ii) Comment # N	IC-21.				

Negative 32 (SG32)

neg	ative 32 (SG3)	_										
Ne	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary. 9.5										
Negative	Negative Text	Neg Rea	Negative: Change "It may be necessary" to "It can be necessary" in the first sentence. Reason/Justification: As specified by the Style Manual, "may" is a statement of permission; "can" is a statement of possibility".									
	Withdrawal (check one)	X		ndrawal made by Voter.	GO TO "Related" subsection							
Rela ted	Motion and Reason (check one)	X	X 'Related' is mutually agreed upon. (Needs no motion.) GO TO "Persuasive" subsection									
	Motion and Reason	X	X Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)									
Per	(check one)		Reason	Editorial to align with Style Marusage.	nual Table 4-6, item 6 – word							
Persuasive	Motion by/ 2 nd by		By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions									
ě	Discussion	Non	None									
	Result of Vote (check one)	11 Y	7-0 N; Motion pas 2/3 ≤ [Negative is and not persuasi	s related	n → (C)							
			(A)	Withdrawn (counted under h in disp	osition)							
			(B)	Not related (counted under i in dispo	osition)							
	(check if	X	(C)	Related and not persuasive (significar	nt)							
Final	applicable)		(D)	Not significant (counted under j in di	sposition)							
a			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS							
			(F)	Addressed by technical change (cour	ted under k disposition)							
	(check if applicable)	X	Comment genera	ated. See Section V-(ii) Comment # No	C-22.							

Negative 33 (SG33)

N _e	Referenced Section/	*TF/TC Chapter to fill in, including text in the ballot if necessary.								
Negative	Paragraph	9.5								
ive	Negative Text		legative: Change "This redundancy" to "Redundancy" in the second sentence. leason/Justification: There's no antecedent to "This".							
	Withdrawal (check one)	No Negative withdrawal made by Voter								
Rela ted	Motion and Reason (check one)	X	'Related' is mutually agr	reed upon. (Needs no motion.)	GO TO "Persuasive" subsection					
Persuasiv e	Motion and Reason	X	Negative is related and	not persuasive. (Needs ≥2/3 vot	es to pass.)					
uasiv e	(check one)		Reason [Editorial to fix grammar and provi	ide clarity.					

	Motion by/ 2 nd by		By: Chuck Dale / Veolia Water Second: Lindsey Sullivan / FTD Solutions						
	Discussion	Non	е						
	Result of Vote	11 Y	′ -0 N ; Motion pas	ssed/failed.					
	(check one)	X	2/3 ≤ [Negative is and not persuasi						
			(A)	Withdrawn (counted under h in disposition)					
			(B)	Not related (counted under i in disposition)					
	(check if	X	(C)	Related and not persuasive (significant)					
Final	applicable)		(D)	Not significant (counted under j in disposition)					
ıal			(E)	Related and persuasive and not addressed by technical change					
			(F)	Addressed by technical change (counted under k disposition)					
	(check if applicable)	X	Comment genera	rated. See Section V-(ii) Comment # NC-23.					

Disposition of Voting Interest Reject 1

Check only when the Document has not been failed.

33	Original	Original number (#) of Negatives (g)							
#	Number of Negatives withdrawn (h)								
#	Number of Negatives found not related (i)								
#	Number of Negatives found not significant (j)								
8			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	ne 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* ¶ 9.6.1.4.5.2)

IV. Other Technical Issues None

V. Comments

V- (i) Voters' Comments
Commenter 1 (Jenell McCall) - Comment 1

		(**********************************		Comp - Comment i					
Co	*TI	F/TC Chapt	er to	fill in section/paragraph #, if necessary.					
Recommend that Section 10 include this Standard: SEMI C90-1015 TEST METHOD AND SPECIFICATION FOR TESTING PERFLUOR (PFA) MATERIALS USED IN LIQUID CHEMICAL DISTRIBUTION SYSTEMS									
	Tł	ne TC Chap	ter a	greed to do one of the following actions.					
	*N	*No motion is required in this step.							
Þ		Already a	ddres	ssed by Commenter #, Comment #					
Action		No further	actio	on was taken by the TC Chapter.					
٦		Refer to th	ne TF	for more consideration.					
		New Busi	ness						
	X	Editorial C	Chan	ge					
		Options		Case 1: No vote in this section:					
		for		To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.					
		editorial change		Case 2: Voted in this section:					
		(check one)	X	Original section number and at least one full sentence are require "FROM" and "TO" fields.					
		FROM: Section/Paragraph 10							
		10 Related Standards and Documents							
		10.1 SEMI Standards and Safety Guidelines							
		SEMI C1 — Guide for the Analysis of Liquid Chemicals							
Editorial Char			SEMI E49 — Guide for High Purity and Ultrahigh Purity Piping Performance, Subassemblies, and Final Assemblies						
	1			pecification for Polymer Materials and Components Used in Ultrapure Water and I Distribution Systems					
ıges		SEMI F63	— G	uide for Ultrapure Water Used in Semiconductor Processing					
		SEMI S2 – Equipment		vironmental, Health, and Safety Guideline for Semiconductor Manufacturing					
		SEMI S8 – Equipment		ety Guideline for Ergonomics Engineering of Semiconductor Manufacturing					

	TO: Section/Paragraph 10				
	10 Related Standards and Documents				
	10.1 <i>SEMI St</i>	tandards and Safety Guidelines			
	SEMI C1 — Guide for the Analysis of Liquid Chemicals				
	SEMI E49 — Final Assemb	Guide for High Purity and Ultrahigh Purity Piping Performance, Subassemblies, and lies			
	SEMI F57 — Specification for Polymer Materials and Components Used in Ultrapure Water at Liquid Chemical Distribution Systems				
	SEMI F63 —	Guide for Ultrapure Water Used in Semiconductor Processing			
	SEMI S2 — Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment				
	SEMI S8 — Safety Guideline for Ergonomics Engineering of Semiconductor Manufacturing Equipment				
	SEMI C90 - Test Method and Specification for Testing Perfluoroalkoxy (PFA) Materials Used in Liquid Chemical Distribution Systems				
	Justification (If necessary) Added C90 Standard to the Related Standards and Docs section.				
Motion		To approve above editorial change(s)			
Motion by/2 nd by		By: Bob McIntosh / GF Piping Systems Second: Per Nelson / Daikin America, Inc.			
Discussion		None			
Vote		11 Y-0 N; Motion passed.			

This table is needed for each Comment accompanied a Vote

V-(ii) Comments Created by Handling Negative

Comment (Created by Handling Negative) NC - 1 (SG01)

C	*TF/TC Chapter to fill in					
Comment	Negative: Split the latter sentence, "This Guidereprocessing systems", into a separate paragraph Reason/Justification: The exclusion of slurry and reprocessing systems is a separate limitation from the exclusion of small-source-container systems.					
A	The TC Chapter agreed to do one of the following actions.					
Action	*No motion is required in this step.					
n	X Editorial change					
		Options for		Case 1: No vote in this section:		
		editorial		Case 2: Voted in this section:		

		change (check one)	X	Original section number and at least one full sentence are required in "FROM" and "TO" fields.	
Edito		FROM: Section/Paragraph 3.1 3.1 This Guide is not intended to be applicable to every possible use and type of chemical dispensing system, but only to those systems that originate with sources of single lots of liquid materials which operate in a way that delivers to a single or multiple streams. This Guide excludes slurry systems and chemical waste stream reprocessing systems.			
Editorial Changes	1	TO: Section/Paragraph 3.1 3.1 This Guide is not intended to be applicable to every possible use and type of chemical dispensing system, but only to those systems that originate with sources of single lots of liquid materials which operate in a way that delivers to a single or multiple streams. 3.2 This Guide excludes slurry systems and chemical waste stream reprocessing systems.			
		Justification (If necessary) Editorial in nature, separate the paragraph into a separate paragraph.			
M	otion	l	•	To approve above editorial change(s)	
M	Motion by/2 nd by			By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton	
Discussion			None		
Vo	Vote			11 Y-0 N; Motion passed.	

This table is needed for each Comment created by handling Negative.

Comment (Created by Handling Negative) NC – 2 (SG02)

င၀	*TF/TC Chapter to fill in				
Comment	Negative: Change "elsewhere in" to "elsewhere, such as in the documents cited in"> Reason/Justification: Neither of the Sections contains such information, although each cites documents that contain such information.				
Α	The	The TC Chapter agreed to do one of the following actions.			
*No motion is required in this step.			uired in this step.		
n	X	Editorial c	hang	le	
		Options for editorial change (check one)		Case 1: No vote in this section:	
			e k	Case 2: Voted in this section:	
				Original section number and at least one full sentence are required in "FROM" and "TO" fields.	
		FROM: S	ectio	on/Paragraph 3.2	
Editorial	1	3.2 This Guide excludes construction protocols for BCDS, such as clean manufacturing practice integrity of fabrication, and prequalification of materials. Such protocols are found elsewhere in Referenced Standards and Documents and § 10, Related Documents.		cation, and prequalification of materials. Such protocols are found elsewhere in § 4,	

	TO: Section/Paragraph 3.2 is now 3.3 (numbering updated)				
	integrity of fa	3.3 This Guide excludes construction protocols for BCDS, such as clean manufacturing practices, integrity of fabrication, and prequalification of materials. Such protocols are found elsewhere, such as the documents cited in § 4, Referenced Standards and Documents and § 10, Related Documents.			
		Justification (If necessary) Editorial to provide clarity to the related docs being referenced.			
Motion		To approve above editorial change(s)			
Motion by/2 nd by		By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton			
Discussion		None			
Vote		11 Y-0 N; Motion passed.			

Comment (Created by Handling Negative) NC – 3 (SG04) *TF/TC Chapter to fill in Change this to "49 CFR 178 — Specifications for Packagings" Negative: The title of Part 178 is "Specifications for Packagings" (Yes, the "s" at Reason/Justification: the end is part of the official title, despite being a bit odd.) The parenthetical note in the ballot is a bit confusing, as the title of Title 49 is "Transportation". The TC Chapter agreed to do one of the following actions. *No motion is required in this step. Editorial change Options Case 1: No vote in this section: for Case 2: Voted in this section: editorial change X Original section number and at least one full sentence are required in (check "FROM" and "TO" fields. one) FROM: Section/Paragraph 4.2, first item 4.2 Federal Regulations¹ 49 CFR — Title 49 of the Code of Federal Regulations, Part 178 (as they pertain to the Department of **Editorial Changes** Transportation)² TO: Section/Paragraph 4.2, first item 4.2 Federal Regulations¹ 49 CFR 178 — Title 49 of the Code of Federal Regulations, Part 178 (as they pertain to the Department of Transportation)¹ Specifications for Packagings **Justification (If necessary)** Editorial in nature, updating title. Motion To approve above editorial change(s)

Motion by/2 nd by	By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton
Discussion	None
Vote	11 Y-0 N; Motion passed.

Com

me	nent (Created by Handling Negative) NC – 4 (SG06)				
	*TF/TC Chapter to fill in				
Comment	Rea Alte I not Pac SEN work	Negative: Delete these items. Reason/Justification: They are redundant with the first item, as each of them is within Part 178. Alternatively, one could delete the first item and keep the remaining items. I note that Subpart K of Part 178, which includes 178.509, is entitled "Non-bulk Performance-Oriented Packaging Standards", so the US government does not consider things therein to be "bulk". The SEMI Standards Program is not bound by the US governments definitions, but it might be worthwhile to include a NOTE acknowledging the difference between how this SEMI Standard defines "bulk" and how the US government does.			
A	The	The TC Chapter agreed to do one of the following actions.			
*No motion is required in this step.			•		
	X	Editorial ch	nan		
		Options for		Case 1: No vote in this section:	
		editorial change (check one)	X	Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.	
		FROM: Section/Paragraph 4.2, second, third, and fourth items.			
		4.2 Federal Regulations ¹			
Editorial Changes		 49 CFR 178 — Specifications for Packagings 49 CFR 178.509 — Standards for Plastic Drums and Jerricans 49 CFR 178.706 — Standards for Rigid Plastic IBCs 49 CFR 178.707 — Standards for Composite IBCs (rigid structural IBCs with polymeric liners) 			
al C	1	TO: Section/Paragraph 4.2, second, third, and fourth items.			
hanç		4.2 Federal Regulations ¹			
ges		49 CFR 178 — Specifications for Packagings 49 CFR 178.509 — Standards for Plastic Drums and Jerricans — 49 CFR 178.706 — Standards for Rigid Plastic IBCs — 49 CFR 178.707 — Standards for Composite IBCs (rigid structural IBCs with polymeric liners)			
		Justification (If necessary) Editorial in nature, removing redundant sections after addressing Negative 4.			
M	Motion			To approve above editorial change(s)	
M	Motion by/2 nd by			By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton	
Di	scus	sion		None	
V	Vote			11 Y-0 N; Motion passed.	

Comment (Created by Handling Negative) NC – 5
There is no NC-5. This was numbered incorrectly, please disregard.

Comment (Created by Handling Negative) NC - 6 (SG08)

ommas.				
ommas.				
*No motion is required in this step.				
X Editorial change				
ntence are required in				
FROM: Section/Paragraph 5.2.4				
5.2.4 <i>decontamination</i> — cleaning of a BCDS, or any subsystems thereof, by introducing DIW, UPW or chemical solutions into the piping systems.				
TO: Section/Paragraph 5.2.4 5.2.4 decontamination — cleaning of a BCDS, or any subsystems thereof, by introducing DIW, UPW, or chemical solutions into the piping systems.				
Justification (If necessary) Editorial in nature, align with Style Manual Table 5-1, item 3				
).				

Comment (Created by Handling Negative) NC - 7 (SG10)

Cor	*TF/TC Chapter to fill in								
omment	Negative: Remove the term from Terminology. Reason/Justification: A search did not find "filter shock" used in the document.								
Α	The TC Chapter agreed to do one of the following actions.								
Action	*No motion is required in this step.								
מ	X Editorial change								

		Options for		Case 1: No vote in this section:		
		editorial		Case 2: Voted in this section:		
		change (check one)	X	Original section number and at least one full sentence are required in "FROM" and "TO" fields.		
		FROM: S	ecti	on/Paragraph 5.2.7		
Editor		5.2.7 <i>filter</i> influence.	shoc	k — release of filtrate from filter media due to mechanical, pressure, or chemical		
rial (1	TO: Section/Paragraph 5.2.7				
Editorial Changes	•	5.2.7 filter shock release of filtrate from filter media due to mechanical, pressure, or chemical influence.				
				(If necessary) nove definition, the term does not appear anywhere in the document.		
Me	otion	1	٦	To approve above editorial change(s)		
Me	Motion by/2 nd by			By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton		
Di	Discussion		1	None		
Vo	Vote		1	11 Y-0 N; Motion passed.		

Comment (Created by Handling Negative) NC – 8 (SG11)

Cor	*TF	/TC Chapte	er to	fill in			
*TF/TC Chapter to fill in Negative: Change "waste or" to "waste, or" Reason/Justification: SEMI's Style Manual requires the use of Oxford commas.							
A	The TC Chapter agreed to do one of the following actions.						
Action	*No	motion is	motion is required in this step.				
٥	X	Editorial c	hang	е			
		Options for		Case 1: No vote in this section:			
		editorial		Case 2: Voted in this section:			
		change (check one)	X	Original section number and at least one full sentence are required in "FROM" and "TO" fields.			
Edit		5.2.8 flush	— th	on/Paragraph 5.2.8 e act of using DIW/UPW or some other liquid chemical to clean the line or ding another chemical, waste or process medium.			
Editorial Changes	1	5.2.8 flush	— th	Paragraph 5.2.8 e act of using DIW/UPW or some other liquid chemical to clean the line or ding another chemical, waste, or process medium.			
es				(If necessary) ure, align with Style Manual Table 5-1, item 3			

Motion	To approve above editorial change(s)
Motion by/2 nd by	By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton
Discussion	None
Vote	11 Y-0 N; Motion passed.

Comment (Created by Handling Negative) NC - 9 (SG12)

me	ent (Created by Handling Negative) NC – 9 (SG12)							
Co	*TF	TC Chapte	er to	fill in				
Comment	Negative: Change "solid or" to "solid, or" Reason/Justification: SEMI's Style Manual requires the use of Oxford commas.							
Ac	The TC Chapter agreed to do one of the following actions.							
Action				uired in this step.				
	X	Editorial c	hang	je				
		Options for		Case 1: No vote in this section:				
		editorial		Case 2: Voted in this section:				
		change (check one)	X	Original section number and at least one full sentence are required in "FROM" and "TO" fields.				
		FROM: Section/Paragraph 5.2.11						
Editor		5.2.11 metr solid or gas		y — any device or process which measures a quality or property of any process fluid,				
Editorial Changes	1		olog	on/Paragraph 5.2.11 ology — any device or process which measures a quality or property of any process fluid, s.				
		Justification (If necessary) Editorial in nature, align with Style Manual Table 5-1, item 3						
M	otion	1	Т	To approve above editorial change(s)				
M	Motion by/2 nd by		E	By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton				
Di	scus	sion	N	None				
Vo	Vote			1 Y-0 N; Motion passed.				

Comment (Created by

<u>me</u>	ent (Created by Handling Negative) NC – 10 (SG16)				
	*TF	/TC Chapter	r to	fill in	
sentence. Reason/Justification: It appears that the two are intended to refer the same term should be used. If they are intended to refer to different the same term should be used.				ld be used. If they are intended to refer to different parties, it would help if the why the "user" gets to establish the criteria that the "purchaser": uses to decide	
A	The	he TC Chapter agreed to do one of the following actions.			
Action	*No	o motion is required in this step.			
	X	Editorial ch	ang		
		Options for		Case 1: No vote in this section:	
		(check one)	X	Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields. on/Paragraph 6.3	
Editor	1	6.3 Acceptance Tests — The user should define acceptance tests for each subsystem or system produced. These tests define the basis for acceptance or rejection by the purchaser. These tests may include factory, customer and process acceptance tests (factory acceptance test [FAT], customer acceptance test [CAT], process acceptance test [PAT]) as well as environmental, health, and safety (EHS) tests. The tests, as defined in the basis for acceptance or rejection, should be performed and the results documented.			
Editorial Changes		TO: Section/Paragraph 6.3 6.3 Acceptance Tests — The user should define acceptance tests for each subsystem or system produced. These tests define the basis for acceptance or rejection by the purchaseruser. These tests may include factory, customer and process acceptance tests (factory acceptance test [FAT], customer acceptance test [CAT], process acceptance test [PAT]) as well as environmental, health, and safety (EHS) tests. The tests, as defined in the basis for acceptance or rejection, should be performed and the results documented.			
		Justification (If necessary) Editorial, to stay consistent with term being used.			
M	otion	1	Т	o approve above editorial change(s)	
M	otion	by/2 nd by		y: Bob McIntosh / GF Piping econd: Jim Cannon / Mettler Toledo Thornton	
Di	scus	ssion	N	lone	
V	Vote			1 Y-0 N; Motion passed.	
	_				

Comment (Created by Handling Negative) NC – 11 (SG17)

n <u>ine</u>	ent (Created by Handling Negative) NC – 11 (SG17)						
Comment	*TF	/TC Chapter	to	fill in			
mm	Neg	gative: Cha	nge	"customer and process": to "customer, and process".			
ent	Rea	Reason/Justification: Oxford commas are required by the SEMI Style Manual.					
A	The	e TC Chapte	r aç	greed to do one of the following actions.			
Action	*No	motion is r	equ	uired in this step.			
1	X	Editorial cha	ang	е			
		Options for		Case 1: No vote in this section:			
		editorial		Case 2: Voted in this section:			
		change (check one)	X	Original section number and at least one full sentence are required in "FROM" and "TO" fields.			
		FROM: Se	ctic	on/Paragraph 6.3			
Edito		6.3 Acceptance Tests — The user should define acceptance tests for each subsystem or system produced. These tests define the basis for acceptance or rejection by the user. These tests may include factory, customer and process acceptance tests (factory acceptance test [FAT], customer acceptance test [CAT], process acceptance test [PAT]) as well as environmental, health, and safety (EHS) tests. The tests, as defined in the basis for acceptance or rejection, should be performed and the results documented.					
rial	1	TO: Section/Paragraph 6.3					
Editorial Changes	1	6.3 Acceptance Tests — The user should define acceptance tests for each subsystem or system produced. These tests define the basis for acceptance or rejection by the user. These tests may include factory, customer and process acceptance tests (factory acceptance test [FAT], customer acceptance test [CAT], process acceptance test [PAT]) as well as environmental, health, and safety (EHS) tests. The tests, as defined in the basis for acceptance or rejection, should be performed and the results documented.					
		Justification (If necessary) Editorial in nature, align with Style Manual Table 5-1, item 3					
М	Motion			o approve above editorial change(s)			
М	Motion by/2 nd by			By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton			
Di	iscus	ssion	N	lone			
V	Vote			1 Y-0 N; Motion passed.			

Comment (Created by Handling Negative) NC – 12 (SG18)

င္ပ	*TF/TC Chapter to fill in						
omment	Rea	rative: Change these from numbered paragraphs to a bulleted list. son/Justification: These are not paragraphs, they are noun phrases. If there is a need to r to any of them individually, a numbered list, instead of a bulleted list, may be used.					
\triangleright	The	TC Chapter agreed to do one of the following actions.					
Action	*No	motion is required in this step.					
٦	X	Editorial change					

	Options			Case 1: No vote in this section:
		for editorial		Case 2: Voted in this section:
		change (check one)	X	Original section number and at least one full sentence are required in "FROM" and "TO" fields.
		FROM: S	ecti	on/Paragraph 6.4.1.1 through 6.4.1.10
Editorial Changes	1	FROM: S 6.4.1 Quali 6.4.1.1 phy 6.4.1.2 flui 6.4.1.3 con 6.4.1.4 util: 6.4.1.5 hyd 6.4.1.6 trac 6.4.1.7 anid 6.4.1.8 part 6.4.1.9 tota 6.4.1.10 oti TO: Sect 6.4.1 Quali	d system of the street of the	on/Paragraph 6.4.1.1 through 6.4.1.10 ion testing may include tests for: I tool hookup/connections stem leak integrity system function integrity to include cables and cable harnesses onsumption ic distribution performance etals didizable carbon, and ohysical/chemical properties that are process required or relevant. Paragraph 6.4.1.1 through 6.4.1.10 ion testing may include tests for: sical tool hookup/connections d system leak integrity trol system function integrity to include cables and cable harnesses ity consumption fraulic distribution performance the metals ons
M	otion	<u> </u>		To approve above editorial change(s)
M	otion	by/2 nd by		By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton
Di	scus	sion		None
Vo	ote	11 Y-0 N; Motion passed.		11 Y-0 N; Motion passed.

Comment (Created by Handling Negative) NC – 13 (SG19)

n <u>me</u>	ent (Created by Handling Negative) NC – 13 (SG19)						
	*TF	TF/TC Chapter to fill in					
Comment	Negative: Change these from numbered paragraphs to a bulleted list. Add commas and "and" appropriately. Do not capitalize each item or end each item with a period. Reason/Justification: These are not paragraphs, they are noun phrases. If there is a nee refer to any of them individually, a numbered list, instead of a bulleted list, may be used.						
H	The	e TC Chapte	r ag	greed to do one of the following actions.			
Action	*No	motion is re	equ	uired in this step.			
ň	X	Editorial cha	ang	Je			
		Options Case 1: No vote in this section:					
		for editorial		Case 2: Voted in this section:			
			X	Original section number and at least one full sentence are required in "FROM" and "TO" fields.			
		FROM: See	ctic	on/Paragraph 6.5.1 through 6.5.5			
		6.5 Chemical Specifications — BCDS may be specified with different levels of impurities at the point of use as compared to the quality of the incoming chemical. These impurities include:					
		6.5.1 Particulate impurities expressed as the number of particles greater than some threshold diameter per mL.					
		6.5.2 Metallic impurities expressed as ppt, ppb, or ppm.					
		6.5.3 Anions expressed as ppt, ppb, or ppm.					
		6.5.4 Organic impurities including total oxidizable carbon, express as ppt, ppb, or ppm.					
Editorial Chang		6.5.5 Moistur	re c	ontent, expressed as mass % or mass per unit volume.			
ial C	1	TO: Section	n/F	Paragraph 6.5.1 through 6.5.5			
hanges			_	necifications — BCDS may be specified with different levels of impurities at the point red to the quality of the incoming chemical. These impurities include:			
		 6.5.1 Pparticulate impurities expressed as the number of particles greater than some threshold diameter per mL_x. 					
		•_6.5.2 M _I	<u>m</u> et	allic impurities expressed as ppt, ppb, or ppm ₂ -			
		•_6.5.3 Aa	nio	ns expressed as ppt, ppb, or ppm ₂ .			
		• 6.5.4 Oorganic impurities including total oxidizable carbon, express as ppt, ppb, or ppm, and-					
		• 6.5.5 Mmoisture content, expressed as mass % or mass per unit volume.					
		Justification (If necessary) Editorial to align with Style Manual Table 1-10, item 1 to convert to bulleted list.					
M	otior	1	Т	o approve above editorial change(s)			
M	otior	by/2 nd by		By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton			
Di	scus	ssion	None				
Vo	Vote			11 Y-0 N; Motion passed.			

Comment (Created by Handling Negative) NC – 14 (SG20)

*TF/TC Chapter to fill in Negative: Change "areas such as" to "in such things as"				
The TC Chapter agreed to do one of the following actions.				
*No motion is required in this step.				
one full sentence are required in				
FROM: Section/Paragraph 6.6 6.6 Transient Suppression — Many systems can include devices or in-line techniques that minimize transients in areas such as: pressure (surge), flow, electrical, instrumentation signal, temperature changes, or concentration.				
s or in-line techniques that minimize cal, instrumentation signal, temperature				
To approve above editorial change(s)				
ton				
S				

Comment (Created by Handling Negative) NC – 15 (SG21)

	nent (oreated by Handing Negative) No = 15 (0021)								
Co	*TF/TC Chapter to fill in								
Comment	_	Negative: Change "e.g., drums" to "e.g., drum" Reason/Justification: The examples are of a singular noun.							
A	The	The TC Chapter agreed to do one of the following actions.							
Action	*No	*No motion is required in this step.							
	X Editorial change			е					
		Options		Case 1: No vote in this section:					
		for editorial		Case 2: Voted in this section:					
		change (check one)	X	Original section number and at least one full sentence are required in "FROM" and "TO" fields.					

		FROM: Sec	tion/Paragraph 7.2			
Edito			The source of each supply fluid for a BCDS, is a bulk container (e.g., drums, bulk container (IBC), or tote) suitable for holding chemicals.			
rial C	1	TO: Section	n/Paragraph 7.2			
Editorial Changes		7.2 Source — The source of each supply fluid for a BCDS, is a bulk container (e.g., drums, intermediate bulk container (IBC), or tote) suitable for holding chemicals.				
S		Justification (If necessary) Editorial to fix grammar and provide clarity.				
M	otior	1	To approve above editorial change(s)			
М	Motion by/2 nd by		By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton			
Di	scus	ssion	None			
V	ote		11 Y-0 N; Motion passed.			

Comment (Created by Handling Negative) NC – 16 (SG23)

	ent (Created by Handling Negative) NC = 10 (3023)							
Con	*TF	/TC Chapte	er to	fill in				
Comment		Negative: Change "optical and electronic" to "optical, and electronic". Reason/Justification: Oxford commas are required by the SEMI Style Manual.						
Ą	The	e TC Chapt	er a	greed to do one of the following actions.				
Action	*No	motion is	requ	uired in this step.				
	X	Editorial c	hang	je				
		Options		Case 1: No vote in this section:				
		for editorial		Case 2: Voted in this section:				
		change (check one)	X	Original section number and at least one full sentence are required in "FROM" and "TO" fields.				
Editorial Changes	1	7.6 Control Systems — For the purposes of this Guide, control systems provide a means to directly or indirectly control the movement of solids, liquids, or gasses. A control system is a combination of manually operated or automated mechanical, pneumatic, hydraulic, optical and electronic systems triggered by a variety of means. Controls systems may also include communication to/from metrology or operational interfaces for one or more of the following: TO: Section/Paragraph 7.6 7.6 Control Systems — For the purposes of this Guide, control systems provide a means to directly or indirectly control the movement of solids, liquids, or gasses. A control system is a combination of manually operated or automated mechanical, pneumatic, hydraulic, optical and electronic systems triggered by a variety of means. Controls systems may also include communication to/from metrology or operational interfaces for one or more of the following:						
				(If necessary) ure, align with Style Manual Table 5-1, item 3				

Motion	To approve above editorial change(s)
Motion by/2 nd by	By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton
Discussion	None
Vote	11 Y-0 N; Motion passed.

n <u>me</u>	ent (Created by Handling Negative) NC – 17 (SG25)						
Col	*TF	TC Chapte	er to	o fill in			
Comment	0	Negative: Change "circulates or" to "circulates, or". Reason/Justification: Oxford commas are required by the SEMI Style Manual.					
A	The	TC Chapt	er a	agreed to do one of the following actions.			
Action	*No	motion is	req	uired in this step.			
	X	Editorial cl	han	ge			
		Options for		Case 1: No vote in this section:			
		editorial		Case 2: Voted in this section:			
		change (check one)	X	Original section number and at least one full sentence are required in "FROM" and "TO" fields.			
		FROM: Section/Paragraph 7.7					
Editoria		7.7 <i>Tank</i> — A holding container that generally stores, circulates or conditions an amount of chemical prior to transferring this chemical to downstream processes.					
Editorial Changes	1	TO: Section/Paragraph 7.7 7.7 <i>Tank</i> — A holding container that generally stores, circulates, or conditions an amount of chemical prior to transferring this chemical to downstream processes.					
es				(If necessary) ture, align with Style Manual Table 5-1, item 3			
M	otion	١	•	To approve above editorial change(s)			
M	Motion by/2 nd by			By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton			
Di	Discussion			None			
Vo	ote			11 Y-0 N; Motion passed.			

Comment (Created by Handling Negative) NC – 18 (SG26)

Cor	*TF/TC Chapter to fill in							
Comment	Negative: Change "The use of a clean ammonia gas source" to "Clean ammonia gas". Reason/Justification: Neither the source or its use is reacted.							
A	The TC Chapter agreed to do one of the following actions.							
cti	*No motion is required in this step.							

	X	Editorial c	Editorial change					
		Options		Case 1: No vote in this section:				
		for editorial		Case 2: Voted in this section:				
		change (check one)	X	Original section number and at least one full sentence are required in "FROM" and "TO" fields.				
		FROM: S	ectio	on/Paragraph 7.12				
Editor		generated of	7.12 <i>On-Site Chemical Generation</i> — Liquid chemicals, such as ammonium hydroxide, may be generated on-site. The use of a clean ammonia gas source and DIW/UPW may be reacted to the required concentration. The resulting chemical is used as a source for the distribution system.					
rial	1	TO: Section/Paragraph 7.12						
Editorial Changes	7.12 On-Site Chemical Generation — Liquid chemicals, such as ammonium hydroxide, a generated on-site. The use of a clean ammonia gas source and DIW/UPW may be react required concentration. The resulting chemical is used as a source for the distribution sys							
		Justification (If necessary) Editorial to fix grammar and provide clarity.						
M	otion)	Т	o approve above editorial change(s)				
M	Motion by/2 nd by			By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton				
Di	Discussion			None				
V	ote		1	1 Y-0 N; Motion passed.				

Comment (Created by Handling Negative) NC – 19 (SG27)

	The Coreated by Handling Negative) NO = 13 (0027)							
Cor	*TF	*TF/TC Chapter to fill in						
Comment	_	Negative: Change "recycling or" to "recycling, or". Reason/Justification: Oxford commas are required by the SEMI Style Manual.						
A	The	TC Chapt	er a	greed to do one of the following actions.				
Action	*No	*No motion is required in this step.						
X Editorial change				le				
		Options		Case 1: No vote in this section:				
		for editorial		Case 2: Voted in this section:				
		change (check one)	X	Original section number and at least one full sentence are required in "FROM" and "TO" fields.				
		FROM: S	ectio	on/Paragraph 7.13				
Editorial	7.13 Reuse of Chemicals — Chemical reuse processes may be integrated with general che distribution systems. This may include chemical reprocessing, recycling or reclamation of used. Uses of these practices are highly encouraged to reduce the environmental impact a manufacturing costs.							

		7.13 Reuse of distribution sy used. Uses of manufacturing	D: Section/Paragraph 7.13 B. Reuse of Chemicals — Chemical reuse processes may be integrated with general chemical ribution systems. This may include chemical reprocessing, recycling or reclamation of chemicals d. Uses of these practices are highly encouraged to reduce the environmental impact and associated nufacturing costs. Stification (If necessary) torial in nature, align with Style Manual Table 5-1, item 3			
М	otior	า	To approve above editorial change(s)			
М	Motion by/2 nd by		By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton			
Discussion		ssion	None			
Vote			11 Y-0 N; Motion passed.			

Comment (Created by Handling Negative) NC – 20 (SG30)

1110	ent (Created by Handling Negative) NC – 20 (SG30)							
Con	*TF	/TC Chapte	er to	fill in				
Comment	_	Negative: Change "calibration) and other" to "calibration), and other". Reason/Justification: Oxford commas are required by the SEMI Style Manual.						
A	The	TC Chapt	er a	greed to do one of the following actions.				
Action	*No	motion is	req	uired in this step.				
	X	Editorial c	hang	ge				
		Options for		Case 1: No vote in this section:				
		editorial		Case 2: Voted in this section:				
		change (check one)	X	Original section number and at least one full sentence are required in "FROM" and "TO" fields.				
		FROM: Section/Paragraph 9.3						
Editori		9.3 <i>Maintenance and Preventative Maintenance</i> — For BCDS includes routine and preventative maintenance of pumps, filters, valves, metrology (including calibration) and other components.						
Editorial Changes	1	TO: Section/Paragraph 9.3 9.3 Maintenance and Preventative Maintenance — For BCDS includes routine and preventative maintenance of pumps, filters, valves, metrology (including calibration) and other components.						
U,	Justification (If necessary) Editorial in nature, align with Style Manual Table 5-1, item 3							
M	otion	1	1	To approve above editorial change(s)				
Motion by/2 nd		by/2 nd by		By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton				
Discussion			1	None				
Vo	ote		1	11 Y-0 N; Motion passed.				
				•				

Comment (Created by Handling Negative) NC – 21 (SG31)

n <u>me</u>	ent (Created by Handling Negative) NC – 21 (SG31)							
င္၀	*TF	/TC Chapte	er to	fill in				
Comment	"Ma	Negative: Change "Maintenance and Preventative Maintenance — For BCDS" to "Maintenance and Preventative Maintenance for BCDS" Reason/Justification: What follows the em dash is not a sentence.						
Þ	The	e TC Chapt	er a	greed to do one of the following actions.				
Action	*No	motion is	requ	uired in this step.				
Ĺ	X	Editorial c	hang	le				
		Options for		Case 1: No vote in this section:				
		editorial		Case 2: Voted in this section:				
		change (check one)	eck	Original section number and at least one full sentence are required in "FROM" and "TO" fields.				
		FROM: Section/Paragraph 9.3						
Edito		9.3 <i>Maintenance and Preventative Maintenance</i> — For BCDS includes routine and preventative maintenance of pumps, filters, valves, metrology (including calibration) and other components.						
Editorial Changes	1	9.3 Mainte	ection/Paragraph 9.3 intenance and Preventative Maintenance for BCDS—For BCDS—includes routine and tative maintenance of pumps, filters, valves, metrology (including calibration), and other nents.					
		Justification (If necessary) Editorial to move "for BCDS" in front of the em dash to provide clarity.						
М	otior)	Т	o approve above editorial change(s)				
M	Motion by/2 nd by			By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton				
D	Discussion			None				
V	ote		1	1 Y-0 N; Motion passed.				

Comment (Created by Handling Negative) NC – 22 (SG32)

င၀	*TF/TC Chapter to fill in								
Comment	Rea	Negative: Change "It may be necessary" to "It can be necessary" in the first sentence. Reason/Justification: As specified by the Style Manual, "may" is a statement of permission; "can" is a statement of possibility".							
Ą	The	The TC Chapter agreed to do one of the following actions.							
Action	*No motion is required in this step.								
n	X	Editorial	chang	le					
				Case 1: No vote in this section:					
				Case 2: Voted in this section:					

		Options for editorial change (check one)	X	Original section number and at least one full sentence are required in "FROM" and "TO" fields.				
Editoria	1	FROM: Section/Paragraph 9.5 9.5 Redundancy — It may be necessary to include repetition of components or processes to mitigate risk as assessed by the end user or system designer. This redundancy can take the form of process equipment, piping, electrical components, supply features (electrical or chemical), metrology, or other system features deemed necessary.						
Editorial Changes		TO: Section/Paragraph 9.5 9.5 Redundancy — It maycan be necessary to include repetition of components or processes to mitigate risk as assessed by the end user or system designer. This redundancy can take the form of process equipment, piping, electrical components, supply features (electrical or chemical), metrology, or other system features deemed necessary.						
		Justification (If necessary) Editorial to align with Style Manual Table 4-6, item 6 – word usage.						
M	otior	n i		To approve above editorial change(s)				
M	otion	on by/2 nd by		By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton				
Di	scus	ssion	N	None				
Vo	Vote			11 Y-0 N; Motion passed.				

Comment (Created by Handling Negative) NC – 23 (SG33)

Cor	*TF	*TF/TC Chapter to fill in							
Comment	Negative: Change "This redundancy" to "Redundancy" in the second sentence. Reason/Justification: There's no antecedent to "This".								
A	The	The TC Chapter agreed to do one of the following actions.							
Action	*No motion is required in this step.								
n	X	Editorial c	hang	je					
		Options		Case 1: No vote in this section:					
		for editorial change (check one)		Case 2: Voted in this section:					
			X	Original section number and at least one full sentence are required in "FROM" and "TO" fields.					
		FROM: S	ectio	on/Paragraph 9.5					
Editorial	— It may be necessary to include repetition of components or processes to mitigate by the end user or system designer. This redundancy can take the form of process ng, electrical components, supply features (electrical or chemical), metrology, or other deemed necessary.								

		TO: Section/Paragraph 9.5 9.5 <i>Redundancy</i> — It can be necessary to include repetition of components or processes to mitigate risk as assessed by the end user or system designer. This rRedundancy can take the form of process equipment, piping, electrical components, supply features (electrical or chemical), metrology, or other system features deemed necessary.					
			ustification (If necessary) itorial to fix grammar and provide clarity.				
М	Motion		To approve above editorial change(s)				
M	Motion by/2 nd by		By: Bob McIntosh / GF Piping Second: Jim Cannon / Mettler Toledo Thornton				
Di	Discussion		None				
V	ote		11 Y-0 N; Motion passed.				

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

VII. Approval Conditions Check

VII. - (i). Approval Rate

APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (*Regulations* ¶ 9.6.2.1.2)
APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations* ¶ 9.6.2.1.3)

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	46	/	47	=	97.9%	≥90%

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

Note: See Regulations § 9.6.2 for further information.

Globally Approved (No Ratification Ballot needed):

The Letter Ballot meets the Letter Ballot approval conditions for the global technical committee.

Need a Ratification Ballot:

X

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

VIII. Safety Check

Note: See Regulations § 15 for further information.

Motion	X	Th is	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)					
			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)					
			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)					
	Motion by/2 nd by			By: Lindsey Sullivan / FTD Solutions Second: Bob McIntosh / GF Piping Systems				
	Discussion			None				
		٧	ote	8 Y-0 N; Motion passed.				

IX. Intellectual Property (IP) Check

Note: This Letter Ballot may cover all or part of a Standard or Safety Guideline. Regardless of the coverage, this IP check applies to the entire Standard or Safety Guideline*. See *Regulations* § 16 for further information.

X	The TC Chapter meeting chair asked those participating, if they were aware of any patented technology that might be relevant (see <i>Regulations</i> ¶ 16.3.1.1) to the Standard or Safety Guideline; or, any copyrighted items or trademarks that are used/reproduced (see <i>Regulations</i> ¶ 16.4.1.2) in the Standard or Safety Guideline. (Also see, <i>Regulations</i> § 8.8)					
	X	The question is NOT answered in affirmative (No potentially material patented technology or use/reproduction of copyrighted items/trademarks is known.)	GO TO SECTION X.			

X. Action for This Document

	X	This Document passed TC Chapter review with technical changes and with or without editorial changes and will be forwarded to the ISC A&R SC for procedural review. A Ratification Ballot will be issued to verify the technical changes.					
I	Motion by/ 2 nd by		By: Bob McIntosh / GF Piping Systems Second: Jim Cannon / Mettler Toledo Thornton				
	Discussion		None				
	Vote		8 Y-0 9 N				
F	inal	Action	X Motion passed				
l '	aı	, (01.011	Motion failed				

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