Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: North America
Global Technical Committee: Gases

TC Chapter Cochairs: Mohamed Saleem/Brooks Instrument

Standards Staff: Laura Nguyen

	Scheduled in Background Statement	Actual
Date	11/07/2017	11/07/2017
Location	SEMI HQ	SEMI HQ
Reason for Change of Date and/or Location (if changed)		

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

I. Document Number and Title

Document Number	Document Title
6125A	Revision to SEMI F23-0697 (Reapproved 0712),
	Particle Specification for Grade 10/0.2 Flammable
	Specialty Gases with title change to Specification for
	Particle Concentration of Grade 10/0.2 Hydrogen Gas

II. Tally

Standards staff to fill in.

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

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

Voting Tally (with example values):

Voting Interest:	Returned Votes		Distribution		Return Rate	
Letter Ballot	39	÷	61	=	63.9%	≥60%
Intercommittee Ballot	21					
Voting Interest Reject(s)	0		Total	Vote	rs with Rejects	0
Voting Interest Accept(s)	28					

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

III. Rejects None

IV. Other Technical Issues

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

Comment 1 (Voter: Yanli Chen/UCT):

Te	Origin		TC Chapter to choose ter: Yanli Chen/UCT) / A		n not addressed by a	a Vot	e res	ponse					
Technical Issue	Referenced Section/ Paragraph	Sec	Section 7.4										
l Issue	Reason												
Hand	Handle technical issue identified above as a Negative.												
Related	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	X Negative is related and persuasive. (Needs >1/3 votes to pass.)										
			Negative is related and	legative is related and not persuasive. (Needs ≥2/3 votes									
	(check che)		Reason	xxxx									
Per	Motion by/ 2 nd by	Yar	nli Joyce Chen (UCT)/Ch	ris San	ders (CBRE)								
Persuasive	Discussion	Nor	ne.										
Ф		7 Y	-0 N; Motion passed.		1			00.70 "111					
	Result of Vote	X	[Negative is related and persuasive.] > 1/3	d	Is a technical change	X	Υ	GO TO "Address by Technical Change Option" subsection					
	(check one)		[Negative is related and persuasive.] < 2/3	d not	recommended? (check one)		N	GO TO "Final" subsection → (E)					
			2/3 ≤ [Negative is related and not persuasive.] <		GO TO "Final" subsection → (C)								

Technical Change Recommendations

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

FROM: Section/Paragraph 7.4

7.4 Using the high purity nitrogen system shown in Figure 1, purge the sampling system and particle counter for at least 5 minutes at the instrument manufacturer's specified flow rate. The exact purge time should take into account the reactivity of the gas and should be sufficient to purge the entire exhaust line. An oxygen Oxygen sensor should be placed at the system exhaust to verify less than 1 ppmv oxygen Oxygen in the purge nitrogen. The purging must be performed before flammable Hydrogen gas is introduced into the sampling system and after completion of the measurement. The valve leading to the oxygen Oxygen sensor should be closed when flammable gas is being sampled. The valve leading from the purge nitrogen system should be closed when sampling Hydrogen specialty gases and/or a back flow prevention device should be included in the purge nitrogen system.

TO: Section/Paragraph 7.4

Technical Changes

Address by Technical Change Option

7.4 Using the high purity nitrogen system shown in Figure 1, purge the sampling system and particle counter for at least 5 minutes at the instrument manufacturer's specified flow rate. The exact purge time should take into account the reactivity of the gas and should be sufficient to purge the entire exhaust line. An oxygen Oxygen sensor should be placed at the system exhaust to verify less than 1 ppmv oxygen Oxygen in the purge nitrogen. The purging must be performed before flammable Hydrogen gas is introduced into the sampling system and after completion of the measurement. The valve leading to the oxygen Oxygen sensor should be closed when flammable gas Hydrogen is being sampled. The valve leading from the purge nitrogen system should be closed when sampling Hydrogen specialty gases and/or a back flow prevention device should be included in the purge nitrogen system.

Justification (If necessary)

"Hydrogen Gas" is not correct terminology. In order to keep consistency through the whole document, "gas" should be removed.

Flammable gas in the section 7.4 was not removed inadvertently during the document update process. In order to keep consistency through the whole document, it should be removed and replaced with "Hydrogen".

Mot	ion			Negative is addressed by the technical change(s).							
Mot	ion by/2 nd b	у		Erica Kitano (Fujikin)/Chris Sanders (CBRE)							
Disc	cussion			None							
				7	Y-0 N; Mo	tion passed.					
Result of Vote (check one)				X	2/3 ≤ [No 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 incorporate the technical change(s).							
Inco Tec	Motion by	/2 nd	by	Erica Kitano (Fujikin)/ Rahul Ramamurti (UCT)							
r po	Discussio	n		None							
ratic cal (6 Y-0 N; Motion passed.							
Incorporation of the Technical Change	Result o	_	-	X	90% ≤ [A	Agree to incorporate.]	GO TO "Final" subsection → (F)				
he Je	(check	one)		[Disagree		e to incorporate.] >10%	GO TO "Final" subsection → (E)				
					(B)	Not related					
					(C)	Related and not persuasive					
(cl	heck one)			(E)		Related and persuasive and not addressed by technical change	DOCUMENT FAILS				
		X			(F)	Addressed by technical change					
	check if oplicable)		Co	omment generated. See Section V-(ii) Comment # X.							

A reason not addressed by a Vote response 1:

		Orig		*TF	TTC Chapter to chooster: Yanli Chen/UCT) /	se		a Vot	e res	ponse		
echi			_	Title	<u> </u>		Thot addressed by a			pone0		
Technical Issue	5	Sect	enced ion/ raph	Title	e							
ssue	"Hydrogen Gas" is not correct terminology in the title. In order to keep consister the whole document, "gas" should be removed from the title.											
Han	Handle technical issue identified above as a Negative.											
Related	F	Rea	n and son (one)	X	'Related' is mutually a	GO TO "Persuasive" subsection						
				X	Negative is related ar	nd persua	asive. (Needs >1/3 v	otes	to p	pass.)		
	Motion and Reason (check one)				Negative is related ar	to pass.)						
					Reason XXXX							
Per		otio 2 nd	n by/ by	Yar	Yanli Joyce Chen (UCT)/Chris Sanders (CBRE)							
Persuasive	Di	scu	ssion	Nor	None.							
O O				7 Y-0 N; Motion passed.								
	Ros	ult 4	of Vote	X	persuasive.] > 1/3 change				Υ	GO TO "Address by Technical Change Option" subsection		
			cone)			recommended? (check one)		N	GO TO "Final" subsection → (E)			
					2/3 ≤ [Negative is related and not persuasive.]		GO TO "Final" subsection → (C)					
Addre		inal			ecommendations agraph number and a	t least o	ne full sentence are	e req	uire	d in "FROM" and "TO"		
ss b			FROM:	Sec	tion/Paragraph Title							
y Tech	Tech									CENTRATION OF		
을 하는 GRADE 10/0.2 FLAMMABLE SPECIALTY GASE									TIT DROOEN GAO			
Address by Technical Change Option	Technical Changes	1 Change	PAF	RTIC						NCENTRATION OF HYDROGEN-GAS		
Optic	<i>,</i>		Justifi	catio	on (If necessary)							
ĭ	Moti	on			Negative is addre	essed by	the technical chang	e(s).				
•	-	ggo(e).										

	Moti	on by/2 nd b	у		Er	ica Kitano	(Fujikin)/Chris Sanders (CBRE)						
	Disc	ussion			None								
					7	Y- 0 N ; Mot	ion passed.						
	Result of Vote (check one)					2/3 ≤ [Ne change(s	gative is addressed by the technical).]	GO TO "Incorporation of the Technical Change" subsection					
						[Negative change(s	is not addressed by the technical).] < 2/3	GO TO "Final" subsection → (E)					
		Motion			To incorporate the technical change(s).								
	ਜੂ ਨੂੰ Motion by/2 nd by					Erica Kitano (Fujikin)/ Rahul Ramamurti (UCT)							
	Discussion				None								
	atior al C				6	6 Y-0 N; Motion passed.							
	Incorporation of the Technical Change	Result o				X 90% ≤ [Agree to incorporate.]		GO TO "Final" subsection → (F)					
	e	(check	one)			[Disagree to incorporate.] >10%		GO TO "Final" subsection → (E)					
						(B)	Not related						
						(C)	Related and not persuasive						
Π 20	(ch	eck one)			(E)		Related and persuasive and not addressed by technical change	DOCUMENT FAILS					
-			X			(F)	Addressed by technical change						
	(check if applicable)					mment generated. See Section V-(ii) Comment # X.							

A reason not addressed by a Vote response 2:

Technical	Origin		*TF/TC Chapter to choose (Voter: Yanli Chen/UCT) / A reason not addressed by a Vote response									
nical	Referenced Section	Sec	Section 1.1									
Issue	Reason	"Ну	In the section 1.1, delete "gas" after "Hydrogen" "Hydrogen Gas" is not correct terminology. In order to keep consistency through the whole document, "gas" should be removed.									
Hand	dle technical issu	ıe ide	entified above as a Neg	gative.								
Related	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.) GO TO "Persu subsection"									
		X	Negative is related and	d persuasive. (Needs >1/3 votes to p	pass.)							
Persuasive	Motion and Reason (check one)		Negative is related and	d not persuasive. (Needs ≥2/3 votes	to pass.)							
asive	,		Reason	XXXX								
	Motion by/ 2 nd by	Yar	Yanli Joyce Chen (UCT)/Chris Sanders (CBRE)									

	Dis	scu	ssion	Nor	ne.	ı									
				7 Y	7 Y-0 N; Motion passed.										
	Book	ul4 .	of Vote	X			ve is relate sive.] > 1/3		Is a technical change	X	Y	GO TO "Address by Technical Change Option" subsection			
			cone)		-	_	ve is relate sive.] < 2/3		recommended? (check one)		N	GO TO "Final" subsection → (E)			
							≤ [Negative is related do not persuasive.] < 90% GO TO "Final" subsection → (C)								
	Tech	nic	al Chan	ge R	ec	omme	endations								
		Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.													
			FROM:	FROM: Section/Paragraph 1.1											
	Тес				purpose of this Document is to set a maximum permissible particle concentration for 10/0.2 grade rogen gas and to describe a reference method for its verification.										
	Technical Changes		TO: Se	ection/Paragraph 1.1											
Address by Technical Change		1			urpose of this Document is to set a maximum permissible particle concentration for 10/0.2 grad gas-and to describe a reference method for its verification.										
res	ges		Justifi	catio	n ((If nec	essary)								
s by	J "		"Lludro	non C	"	"io not	aarraat tarm	inalagy In ard	orto koon consistens	v thro	uah t	he whole decument "Undregen			
Te							not correct terminology. In order to keep consistency through the whole document, "Hydrogen blaced with "Hydrogen".								
chn	Motion					Ne	gative is a	ddressed by	the technical chang	e(s).					
ica	Moti	on	by/2 nd b	у		Erica Kitano (Fujikin)/Chris Sanders (CBRE)									
Ch	Disc	uss	sion			None									
ang						7 \	7 Y-0 N; Motion passed.								
e Option			sult of V heck on			X	2/3 ≤ [Ne change(s)		essed by the techn	ical		GO TO "Incorporation of the Technical Change" subsection			
Ď							[Negative change(s)		ssed by the technica	al		GO TO "Final" subsection → (E)			
		М	otion			То			cal change(s).			Cassocion / (L)			
	Inc:	М	otion by	/2 nd	by				ul Ramamurti (UCT	<u> </u>					
	orpo chni	Di	scussio	n		-	ne	· · ·	`	*					
	ratic					<u>6</u> \	/-0 N ; Moti	on passed.							
	Incorporation of the Technical Change		Result o		_	X	90% ≤ [Aç	gree to incorp	orate.]			GO TO "Final" subsection → (F)			
	e He		(CHECK	one	,		[Disagree	to incorporat	te.] >10%			GO TO "Final" subsection → (E)			
							(B)	Not related							
		_					(C)		not persuasive						
Final	(ch	ecl	cone)				(E)		d persuasive and no			DOCUMENT FAILS			
<u> a</u>		X					(F)		by technical change						
	(check if						(F) Addressed by technical change omment generated. See Section V-(ii) Comment # X.								

V. Comments

V- (i) Voters' Comments

None

V-(ii) Comments Created by Handling Negative None

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

VII. Approval Conditions Check

VII. - (i). Approval Rate

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

APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations* ¶ 9.7.1.3)

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	28	/	28	=	100.0%	≥90%

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

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

	Globally Approved (No Ratification Ballot needed): The Letter Ballot meets the Letter Ballot approval conditions for the global technical committee.
X	Need a Ratification Ballot: The Letter Ballot meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

VIII. Safety Check

Note: See Regulations § 15 for further information.

	X	TI is	nis is not a still technica	is not a Safety Document, when all safety-related information is removed, the Document II technically sound and complete. (<i>Regulations</i> ¶ 8.7.1)								
Motion	This is a Safety Document, when all safety-related information is removed, the Documer 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 Documer throughout the balloting process. (<i>Regulations</i> ¶ 15.1.2)										
П	Moti	on	by/2 nd by	Thomas Fritz (WIKA)/Chris Sanders(CBRE)								
	Discussion			None								
Vote				7 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. This IP check applies to the entire Standard or Safety Guideline. See *Regulations* § 16 for further information.

х	mate	The TC Chapter meeting chair asked those participating, if they were aware of any potentially material patented technology or copyrighted items* in the Standard or Guideline. (<i>Regulations</i> ¶ 8.8.1)							
	Х		otentially n righted iter		patented technology or reproduction of nown.	GO TO SECTION X.			
		Potentially material patented technology or reproduction of copyrighted items is known, but a Letter of Assurance (LOA) or copyright release letter for such items has been obtained or presented to the TC Chapter.							
		Potentially material patented technology or reproduction of copyrighted items is known and use of such materials is technically justified by the TC Chapter, but an LOA or copyright release letter for some of the item(s) has NOT been obtained or presented to the TC Chapter							
	~		Ask ISC for special permission to publish.						
	Motion		Quit activity.						
			Wait for L	lait for LOA for patented technology or release of copyrighted items.					
	Motion by/2 nd by			Name (Company)/Name (Company)					
	Discussion			XXXX					
	Vote			XX Y-XX N					
	Final Action				Motion passed				
					Motion failed				

^{*} Note: Such potentially material patented technology or copyrighted items might have become known since the Standard or Safety Guideline was last reviewed, or might become relevant due to this Letter Ballot.

X. Action for This Document

				t passed TC Chapter review as balloted and will be forwarded to the ISC A&R ural review.					
<u> </u>		This Document passed TC Chapter review with editorial changes and will be forward ISC A&R SC for procedural review.							
Motion	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.							
		This Document failed TC Chapter review and will be returned to the TF for rework.							
		This Document failed TC Chapter review and work will be discontinued.							
Motion by/ 2 nd by			Erica Kitano (Fujikin)/Chris Sanders (CBRE)						
Discussion			None						
Vote			7 Y-0 N						
Final Action			X Motion passed						
Filial Action			Motion failed						

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

	Approved for publication			
	Approved pending acceptance of the Ratification Ballot			
	Not approved			
Reason:				
	Re			