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 Voters 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):

Technical Issue	**Origin**	***TF/TC Chapter to choose** (Voter: Yanli Chen/UCT) / A reason not addressed by a Vote response					
	Referenced Section/ Paragraph	Section 7.4					
	Reason	1. In the section 7.4 line 5, delete the "gas" behind "Hydrogen". 2. In the section 7.4 Line 6, change the "flammable gas" (in the sentence "the valve leading to the Oxygen sensor should be closed when flammable gas is being sampled)" into Hydrogen.					
Handle technical issue identified above as a Negative.							
Related	**Motion and Reason (check one)**	X	'Related' is mutually agreed upon. **(Needs no motion.)**				**GO TO "Persuasive" subsection**
Persuasive	**Motion and Reason (check one)**	X	Negative is related and persuasive. **(Needs >1/3 votes to pass.)**				
			Negative is related and not persuasive. **(Needs ≥2/3 votes to pass.)**				
			Reason	XXXX			
	Motion by/ 2nd by	Yanli Joyce Chen (UCT)/Chris Sanders (CBRE)					
	Discussion	None.					
	Result of Vote (check one)	7 **Y**-0 **N**; Motion passed.					
		X	[Negative is related and persuasive.] > 1/3	**Is a technical change recommended? (check one)**	X	Y	**GO TO "Address by Technical Change Option" subsection**
			[Negative is related and not persuasive.] < 2/3			N	**GO TO "Final" subsection → (E)**
			2/3 ≤ [Negative is related and not persuasive.] < 90%	**GO TO "Final" subsection → (C)**			

Address by Technical Change Option

Technical Change Recommendations

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

Technical Changes — **1**

FROM: Section/Paragraph 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

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".

Motion	Negative is addressed by the technical change(s).		
Motion by/2nd by	Erica Kitano (Fujikin)/Chris Sanders (CBRE)		
Discussion	None		
Result of Vote (check one)	7 **Y**-0 **N**; Motion passed.		
	X	2/3 ≤ [Negative is addressed by the technical change(s).]	**GO TO "Incorporation of the Technical Change" subsection**
		[Negative is not addressed by the technical change(s).] < 2/3	**GO TO "Final" subsection → (E)**

Incorporation of the Technical Change

Motion	To incorporate the technical change(s).		
Motion by/2nd by	Erica Kitano (Fujikin)/ Rahul Ramamurti (UCT)		
Discussion	None		
Result of Vote (check one)	6 **Y**-0 **N**; Motion passed.		
	X	90% ≤ [Agree to incorporate.]	**GO TO "Final" subsection → (F)**
		[Disagree to incorporate.] >10%	**GO TO "Final" subsection → (E)**

Final

(check one)		**(B)**	Not related	
		(C)	Related and not persuasive	
		(E)	Related and persuasive and not addressed by technical change	**DOCUMENT FAILS**
	X	**(F)**	Addressed by technical change	
(check if applicable)		Comment generated. See Section V-(ii) Comment # X.		

A reason not addressed by a Vote response 1:

Technical Issue	Origin	*TF/TC Chapter to choose (Voter: Yanli Chen/UCT) / A reason not addressed by a Vote response
	Referenced Section/ Paragraph	Title
	Reason	"Hydrogen Gas" is not correct terminology in the title. In order to keep consistency through the whole document, "gas" should be removed from the title.

Handle technical issue identified above as a Negative.

Related	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection

Persuasive	Motion and Reason (check one)	X	Negative is related and persuasive. (Needs >1/3 votes to pass.)	
			Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)	
			Reason	XXXX
	Motion by/ 2nd by	Yanli Joyce Chen (UCT)/Chris Sanders (CBRE)		
	Discussion	None.		
	Result of Vote (check one)	7 Y-0 N; Motion passed.		

X	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	X	Y	GO TO "Address by Technical Change Option" subsection
	[Negative is related and not persuasive.] < 2/3			N	GO TO "Final" subsection → (E)
	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)			

Address by Technical Change Option

Technical Change Recommendations

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

Technical Changes	1	**FROM: Section/Paragraph Title** ~~PARTICLE~~ SPECIFICATION FOR PARTICLE CONCENTRATION OF GRADE 10/0.2 ~~FLAMMABLE SPECIALTY GASES~~ HYDROGEN GAS
		TO: Section/Paragraph Title ~~PARTICLE~~ SPECIFICATION FOR PARTICLE CONCENTRATION OF GRADE 10/0.2 ~~FLAMMABLE SPECIALTY GASES~~ HYDROGEN ~~GAS~~
		Justification (If necessary)

Motion	Negative is addressed by the technical change(s).

	Motion by/2nd by	Erica Kitano (Fujikin)/Chris Sanders (CBRE)		
	Discussion	None		
	Result of Vote (check one)	7 **Y**-0 **N**; Motion passed.		
		X	2/3 ≤ [Negative is addressed by the technical change(s).]	GO TO "Incorporation of the Technical Change" subsection
			[Negative is not addressed by the technical change(s).] < 2/3	GO TO "Final" subsection → (E)
	Incorporation of the Technical Change: Motion	To incorporate the technical change(s).		
	Incorporation of the Technical Change: Motion by/2nd by	Erica Kitano (Fujikin)/ Rahul Ramamurti (UCT)		
	Incorporation of the Technical Change: Discussion	None		
	Incorporation of the Technical Change: Result of Vote (check one)	6 **Y**-0 **N**; Motion passed.		
		X	90% ≤ [Agree to incorporate.]	GO TO "Final" subsection → (F)
			[Disagree to incorporate.] >10%	GO TO "Final" subsection → (E)

Final	(check one)		(B)	Not related	
			(C)	Related and not persuasive	
			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		X	(F)	Addressed by technical change	
	(check if applicable)		Comment generated. See Section V-(ii) Comment # X.		

A reason not addressed by a Vote response 2:

Technical Issue	Origin	*TF/TC Chapter to choose (Voter: Yanli Chen/UCT) / A reason not addressed by a Vote response		
	Referenced Section	Section 1.1		
	Reason	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.		
Handle technical issue identified above as a Negative.				
Related	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection
Persuasive	Motion and Reason (check one)	X	Negative is related and persuasive. (Needs >1/3 votes to pass.)	
			Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)	
			Reason	XXXX
	Motion by/ 2nd by	Yanli Joyce Chen (UCT)/Chris Sanders (CBRE)		

	Discussion	None.					
	Result of Vote (check one)	7 **Y**-0 **N**; Motion passed.					
		X	[Negative is related and persuasive.] > 1/3	**Is a technical change recommended? (check one)**	**X**	**Y**	**GO TO "Address by Technical Change Option" subsection**
			[Negative is related and not persuasive.] < 2/3			**N**	**GO TO "Final" subsection → (E)**
			2/3 ≤ [Negative is related and not persuasive.] < 90%	**GO TO "Final" subsection → (C)**			

Address by Technical Change Option

Technical Change Recommendations

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

Technical Changes — **1**

FROM: Section/Paragraph 1.1

1.1 The purpose of this Document is to set a maximum permissible particle concentration for 10/0.2 grade Hydrogen gas and to describe a reference method for its verification.

TO: Section/Paragraph 1.1

1.1 The purpose of this Document is to set a maximum permissible particle concentration for 10/0.2 grade Hydrogen ~~gas~~ and to describe a reference method for its verification.

Justification (If necessary)

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

Motion	Negative is addressed by the technical change(s).		
Motion by/2nd by	Erica Kitano (Fujikin)/Chris Sanders (CBRE)		
Discussion	None		
Result of Vote (check one)	7 **Y**-0 **N**; Motion passed.		
	X	2/3 ≤ [Negative is addressed by the technical change(s).]	**GO TO "Incorporation of the Technical Change" subsection**
		[Negative is not addressed by the technical change(s).] < 2/3	**GO TO "Final" subsection → (E)**

Incorporation of the Technical Change

Motion	To incorporate the technical change(s).		
Motion by/2nd by	Erica Kitano (Fujikin)/ Rahul Ramamurti (UCT)		
Discussion	None		
Result of Vote (check one)	6 **Y**-0 **N**; Motion passed.		
	X	90% ≤ [Agree to incorporate.]	**GO TO "Final" subsection → (F)**
		[Disagree to incorporate.] >10%	**GO TO "Final" subsection → (E)**

Final

(check one)		**(B)**	Not related
		(C)	Related and not persuasive
		(E)	Related and persuasive and not addressed by technical change — **DOCUMENT FAILS**
	X	**(F)**	Addressed by technical change
(check if applicable)		Comment 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.

Motion	X	**This is not a Safety Document**, when all safety-related information is removed, the Document is still technically sound and complete. (*Regulations* ¶ 8.7.1)
		This is a Safety Document, when all safety-related information is removed, the Document is not technically sound and complete. (*Regulations* ¶ 8.7.2)
		Safety Checklist (*Regulations* ¶ 15.3) is complete and has been included with the Document throughout the balloting process. (*Regulations* ¶ 15.1.2)
Motion by/2nd 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.

X	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. (*Regulations* ¶ 8.8.1)		
	X	No potentially material patented technology or reproduction of copyrighted items is known.	**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.	**GO TO SECTION X.**
		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.	
	Motion	Ask ISC for special permission to publish.	
		Quit activity.	
		Wait for LOA for patented technology or release of copyrighted items.	
	Motion by/2nd 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

Motion		This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
		This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.
	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/ 2nd by		Erica Kitano (Fujikin)/Chris Sanders (CBRE)
Discussion		None
Vote		7 **Y**-0 **N**
Final Action	X	Motion passed
		Motion failed

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

A&R		**Approved for publication**
		Approved pending acceptance of the Ratification Ballot
		Not approved
	Reason:	