Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: North America Global Technical Committee: Gases TC Chapter Cochairs: Mohamed Saleem / Fujikin Standards Staff: Laura Nguyen

	Scheduled in Background Statement	Actual
Date	11/09/2016	11/09/2016
Location	SEMI HQ, San Jose, CA	SEMI HQ, San Jose, CA
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

5816B	Document Title Revision to SEMI F30-0710, Start-Up and Verification of Purifier Performance Testing for Trace Gas
	Impurities and Particles at an Installation Site

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):

Returned Votes		Distribution		Return Rate	
39	÷	63	=	61.9%	≥60%
13					
1		Total Vo	ters	with Rejects	1
25					
	39 13 1	13	39 ÷ 63 13	39 ÷ 63 = 13 Image: Constraint of the second secon	39 ÷ 63 = 61.9% 13 Image: Constraint of the second

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

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: Entegris) Voter Reject 1 (Voter: Jurgen Lobert / Entegris) Negative 1

	Neg	ativ	ve Text	Sug best dete	This method is about 'trace gas impurities', which can be anything under the sun. Suggesting that only APIMS and CRDS are good methods for detection is misleading at best. There is a host of many methods to detect impurities, many of which can NOT be detected with current CRDS technology. This needs to be revised. If you send me a copy of the full method, I'll be happy to go through it and suggest corrections.								
TFi	input	(op	tional)	TF I		3 clear	in that the test me			e not limited to APIMS, CRDS			
	Withc	Irav	val	х	No Negative withdrawa	al mad	e by Voter.			GO TO "Related" subsection			
	(check one)				Withdrawal document MM/DD/YYYY.	GO TO "Final" subsection \rightarrow (A)							
R	Motion		n and	х	'Related' is mutually ag	greed u	upon. <mark>(Needs no</mark> r	notic	on.)	GO TO "Persuasive" subsection			
Related	F	Reas	son		Negative is not related	. (Nee	ds ≥2/3 votes to p	oass.	.)				
ed	(ch	eck	cone)		Reason	xxx>	(
	Ма	tio	n and	x	Negative is related and	d persu	asive. <mark>(Needs</mark> >1/	/3 vo	tes t	to pass.)			
	F	Reas	son son		Negative is related and	tes to pass.)							
п	•	,			Reason								
Persuasive		otio 2 nd	n by/ by	Moh	Mohamed Saleem (Fujikin) / Thomas Fritz (WIKA)								
asiv	Dis	scu	ssion	None.									
e				12 \	0 N; Motion passed.								
			of Vote <mark>c one)</mark>	x	X [Negative is related and persuasive.] > 1/3		ls a technical change recommended?	x	Y	GO TO "Address by Technical Change Option" subsection			
					[Negative is related and not persuasive.] < 2/3		(check one)		Ν	GO TO "Final" subsection \rightarrow (E)			
Þ	Tech	hnical Change Recommendations											
ddress by T O	Techn		Detection mass spe gas chron measurin	n of p ctron matog ig equ	hetry (APIMS), Cavity Ri graph. APIMS is currently upment for use in oxygen	mpurity ng Dow not av service	n Spectroscopy (CF ailable for oxygen se	RDS) ervice	and t e. A p				
Address by Technical Change Option	Technical Changes		Detection mass spe gas chron <u>Moisture</u> available	n of p ctron matog , <u>Met</u>	hetry (APIMS), Cavity Ri graph- or any other similar hane, Carbon Monoxide,	mpurity ng Dow <u>· Ultrati</u> Carbon ist of ne	n Spectroscopy (CF ace Analytical Instr Dioxide, Oxygen a on APIMS measurir	RDS) <u>,</u> umen nd Hy	and ts. T ydrog	tmospheric pressure ionization the reduction gas detector (RGD)- he trace gas impurities can be gen. APIMS is currently not- ent for use in oxygen service is in-			

	Justification (If necessary) This method is about 'trace gas impurities', which can be anything under the sun. Suggesting that only APIMS and CRDS are good methods for detection is misleading at best. There is a host of many methods to detect impurities, many of which can NOT be detected with current CRDS technology. This is revised by removing references to APIMS and CRDS techniques in section 3 and including other Ultratrace Analytical Instrumentation Techniques. Also, an explanation for the type of trace gas impurities is also added, which further establishes that test method does not only rely on APIMS and CRDS which measure moisture impurity only.									
М	lotic	n			Neg	ative is a	ddressed by the technical change(s).			
М	lotic	n by/2 nd by	/		Moh	amed Sa	lleem (Fujikin) / Thomas Fritz (WIKA)			
D)iscu	ission			Non	e.				
					11 Y	′ 0 N ; Mo	tion passed.			
	Result of Vote (check one)			x	2/3 ≤ [N change(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 \rightarrow (E)		
	אן	Motion			To incorporate the technical change(s).					
lecr		Motion by/	2 nd b	у	Mohamed Saleem (Fujikin) / Thomas Fritz (WIKA)					
Inic	por	Discussior	ו		None.					
al	atio				11 Y 0 N; Motion passed.					
rechnical Change	Incorporation of the	Result o			Х	90% ≤ [<i>I</i>	Agree to incorporate.]	GO TO "Final" subsection → (F)		
ge	the	(check one)				[Disagre	e to incorporate.]>10%	GO TO "Final" subsection → (E)		
					(.	A)	Withdrawn (counted under h in disp	position)		
					(В)	Not related (counted under i in disposition)			
	(0	heck if			(C)	Related and not persuasive (significa	nt)		
	•	plicable)			(D)	Not significant (counted under j in d	isposition)		
					(E)		Related and persuasive and not addressed by technical change	DOCUMENT FAILS		
			Х		(F)	Addressed by technical change (cour	nted under k disposition)		
	•	heck if plicable)		Con	nmei	nt genera	ted. See Section V-(ii) Comment # X.			

Disposition of Voting Interest Reject 1

1	Original	Original number (#) of Negatives (g)						
0	Number	Number of Negatives withdrawn (h)						
0	Number of Negatives found not related (i)							
0	Number	Number of Negatives found not significant (j)						
1			egatives addressed by technic t significant)	al change <mark>(Negative</mark>	(k)			
	>		g - (h + i + j + k) = 0	Reject is Not Valid and denominator of § VI. A	d is not included in the Approval Conditions Check			
	Final		g - (h + i + j + k) >0	Reject is included in the Approval Conditions C				
			Reject without a Negative	Not Valid				

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

IV. Other Technical Issues

None

V. Comments None

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

VII. Approval Conditions Check VII. - (i). Approval Rate

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

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

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	25	/	25	=	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.



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	Th is s	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)						
Motior		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)							
ſ			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		oy/2 nd by	Mohamed Saleem (Fujikin) / Felix Shestatski (Ham-let)					
	Discussion		ission	None.					
	Vote		ote	11 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. (<i>Regulations</i> ¶ 8.8.1)									
	х		No potentially material patented technology or reproduction of copyrighted items is known.							
		сору сору	righted iter right releas	ns is kr se lette	rial patented technology or reproduction of s is known, but a Letter of Assurance (LOA) or e letter for such items has been obtained or 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.								
	Ν		Ask ISC f	or special permission to publish.						
	Motion		Quit activ	ity.						
	'n		Wait for L	.OA for	OA for patented technology or release of copyrighted items.					
	Motion by/2 nd by		//2 nd by	Name (Company)/Name (Company)						
	Discussion		XXXX							
	Vote		XX Y-XX N							
	C	inal A	ction		Motion passed					
	Г				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

			This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.							
M			This Document passed TC Chapter review with editorial changes and will be forwarded to the SC A&R SC for procedural review.							
Motion	 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 Docu	ment failed TC Chapter review and will be returned to the TF for rework.							
		This Docur	ment failed TC Chapter review and work will be discontinued.							
Motion by/ 2 nd by			Mohamed Saleem (Fujikin) / Joyce Chen (UCT)							
Discussion No			None.							
	۷	ote	11 Y 0 N							
F	inal	Action	X Motion passed							
	mai		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: