

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	11/08/2016	11/08/2016
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

Document Number 5997A	Document Title Revision to SEMI C3-0413, Specifications for Gases
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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	38	÷ 63	= 60.3%	≥60%
Intercommittee Ballot	17			
Voting Interest Reject(s)	1	Total Voters with Rejects		1
Voting Interest Accept(s)	20			

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

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: TEL)

Voter Reject 1 (Voter: Supika Mashiro / TEL)

Negative 1

Negative	Referenced Section/ Paragraph	Paragraph 3.2 and Paragraph 6.2.2				
	Negative Text	Paragraph 3.2 indicate MIL S 27626 without specific revision date reference, but in paragraph 6.2.2 specific publication date is referred, which contradicts with the NOTICE in section 3. If particular version is referred it should appear in section 3. (Justification: Style Manual)				
TF input (optional)						
Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.			GO TO "Related" subsection	
	<input type="checkbox"/>	Withdrawal document received by Standards staff on MM/DD/YYYY.			GO TO "Final" subsection → (A)	
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)			GO TO "Persuasive" subsection
		<input type="checkbox"/>	Negative is not related. (Needs ≥2/3 votes to pass.)			
		Reason	XXXX			
Persuasive	Motion and Reason (check one)	<input checked="" type="checkbox"/>	Negative is related and persuasive. (Needs >1/3 votes to pass.)			
		<input type="checkbox"/>	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)			
		Reason	XXXX			
	Motion by/ 2 nd by	Mohamed Saleem (Fujikin) / Aaron Flint (Talon Innovations)				
	Discussion	None				
	Result of Vote (check one)	12 Y 0 N; Motion passed.				
<input checked="" type="checkbox"/>		[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	<input checked="" type="checkbox"/>	Y	GO TO "Address by Technical Change Option" subsection
<input type="checkbox"/>		[Negative is related and not persuasive.] < 2/3			N	GO TO "Final" subsection → (E)
Address by Technical Change Option	Technical Change Recommendations					
	Technical Changes	FROM: Section/Paragraph 6.2.2 6.2.2 <i>Applicable Document</i> — Military Specification MIL-S-27626F.10 January 2013.				
		TO: Section/Paragraph 6.2.2 6.2.2 <i>Applicable Document</i> — Military Specification MIL-S-27626F. 10 January 2013.				

		Justification (if necessary) Section 3 indicates that unless otherwise stated, all cited documents shall be the latest published versions, therefore a specific publication is not needed.	
	Motion	Negative is addressed by the technical change(s).	
	Motion by/2nd by	Mohamed Saleem (Fujikin) / Felix Shestatski (Ham-let)	
	Discussion	None	
	Result of Vote (check one)	<input checked="" type="checkbox"/> 2/3 ≤ [Negative is addressed by the technical change(s).]	GO TO "Incorporation of the Technical Change" subsection
		<input type="checkbox"/> [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	Mohamed Saleem (Fujikin) / Aaron Flint (Talon Innovations)	
	Discussion	None	
	Result of Vote (check one)	<input checked="" type="checkbox"/> 90% ≤ [Agree to incorporate.]	GO TO "Final" subsection → (F)
<input type="checkbox"/> [Disagree to incorporate.] > 10%		GO TO "Final" subsection → (E)	
Final	(check if applicable)	<input type="checkbox"/> (A) Withdrawn (counted under h in disposition)	
		<input type="checkbox"/> (B) Not related (counted under i in disposition)	
		<input type="checkbox"/> (C) Related and not persuasive (significant)	
		<input type="checkbox"/> (D) Not significant (counted under j in disposition)	
		<input type="checkbox"/> (E) Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input checked="" type="checkbox"/> (F) Addressed by technical change (counted under k disposition)	
(check if applicable)	<input type="checkbox"/>	Comment generated. See Section V-(ii) Comment # X.	

Negative 2

Negative	Referenced Section/ Paragraph	Section 4.2.11	
	Negative Text	4.2.11 Replace 'Metallic chemical elements that have relatively high density' with 'Metallic chemical elements that have [a specific density]'. The [specific density] must be defined. Justification: Without specific reference value, the criterion is incomplete and useless.	
TF input (optional)			
Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO "Related" subsection
	<input type="checkbox"/>	Withdrawal document received by Standards staff on MM/DD/YYYY.	GO TO "Final" subsection → (A)
Related	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection
	<input type="checkbox"/>	Negative is not related. (Needs ≥2/3 votes to pass.)	
	<input type="checkbox"/>	Reason	XXXX

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/ 2 nd by	Mohamed Saleem (Fujikin) / Aaron Flint (Talon Innovations)					
	Discussion	None					
	Result of Vote (check one)	12 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)	
Address by Technical Change Option	Technical Change Recommendations						
	Technical Changes 1	FROM: Section/Paragraph 4.2.12 4.2.12 <i>heavy metals</i> — Metallic chemical elements that have relatively high densities. Examples are Mercury (Hg), Cadmium (Cd), Arsenic (As), Lead (Pb), Chromium (Cr), Thallium (Tl) etc.					
		TO: Section/Paragraph 4.2.12 4.2.12— <i>heavy metals</i> — Metallic chemical elements that have relatively high densities. Examples are Mercury (Hg), Cadmium (Cd), Arsenic (As), Lead (Pb), Chromium (Cr), Thallium (Tl) etc.					
		Justification (if necessary) “heavy metals” is not used anywhere in the Document.					
	Motion	Negative is addressed by the technical change(s).					
	Motion by/2 nd by	Mohamed Saleem (Fujikin) / Felix Shestatski (Ham-let)					
	Discussion	None					
	Result of Vote (check one)	10 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/2 nd by		Mohamed Saleem (Fujikin) / Aaron Flint (Talon Innovations)					
Discussion		None					
Result of Vote (check one)		11 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 if applicable)		(A)	Withdrawn (counted under h in disposition)			
			(B)	Not related (counted under i in disposition)			

		(C)	Related and not persuasive (significant)
		(D)	Not significant (counted under j in disposition)
		(E)	Related and persuasive and not addressed by technical change
	X	(F)	Addressed by technical change (counted under k disposition)
(check if applicable)			Comment generated. See Section V-(ii) Comment # X.

Disposition of Voting Interest Reject 1

Check only when the Document has not been failed.

2	Original number (#) of Negatives	(g)	
0	Number of Negatives withdrawn	(h)	
0	Number of Negatives found not related	(i)	
0	Number of Negatives found not significant	(j)	
2	Number of Negatives addressed by technical change (Negative becomes not significant)	(k)	
Final	X	$g - (h + i + j + k) = 0$	Reject is Not Valid and is not included in the denominator of § VI. Approval Conditions Check
		$g - (h + i + j + k) > 0$	Reject is included in the denominator of § VI. Approval Conditions Check
		Reject without a Negative	Not Valid

Note: If all of the Negatives included with a Reject Vote are withdrawn, determined to be not related, or determined to be not significant, the Reject Vote is not valid. (Regulations ¶ 9.4.3.3)

Note: A Negative addressed by a technical change is automatically considered to be not significant. (Regulations ¶ 9.6.4.4.2)

IV. Other Technical Issues

None

V. Comments

V- (i) Voters' Comments

Commenter 1 (Don Mitchell / Air Liquide) - Comment 1

Comment	General analytical descriptions include methods for non gas items (polysilicon for example) not relevant for gases, although not in conflict, maybe distracting.	
	The TC Chapter agreed to do one of the following actions.	
Action	*No motion is required in this step.	
		Already addressed by Commenter #, Comment #
	X	No further action was taken by the TC Chapter.

	Refer to the TF for more consideration.
	New Business
	Editorial Change

Commenter 2 (Supika Mashiro / TEL) - Comment 1

Comment	Through entire Document, replace 'this work' with 'this Standard' for clarity.
	<p>The TC Chapter agreed to do one of the following actions.</p> <p>*No motion is required in this step.</p>
Action	Already addressed by Commenter #, Comment #
	X No further action was taken by the TC Chapter.
	Refer to the TF for more consideration.
	New Business
	Editorial Change

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	=	20	/	20	=	100.0%		≥90%

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

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

	<p>Globally Approved (No Ratification Ballot needed): The Letter Ballot meets the Letter Ballot approval conditions for the global technical committee.</p>
X	<p>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.</p>

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. (<i>Regulations ¶ 8.7.1</i>)
		This is a Safety Document , when all safety-related information is removed, the Document is not technically sound and complete. (<i>Regulations ¶ 8.7.2</i>)
		Safety Checklist (<i>Regulations ¶ 15.3</i>) is complete and has been included with the Document throughout the balloting process. (<i>Regulations ¶ 15.1.2</i>)
Motion by/2nd by		Mohamed Saleem (Fujikin) / Felix Shestatski (Ham-let)
Discussion		None
Vote		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 ¶ 8.8.1</i>)	
	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	<input type="checkbox"/>	Motion passed
<input type="checkbox"/>		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	<input type="checkbox"/>	This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.	
	<input type="checkbox"/>	This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.	
	<input checked="" type="checkbox"/>	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.	
	<input type="checkbox"/>	This Document failed TC Chapter review and will be returned to the TF for rework.	
	<input type="checkbox"/>	This Document failed TC Chapter review and work will be discontinued.	
Motion by/2nd by		Mohamed Saleem (Fujikin) / Felix Shestatski (Ham-let)	
Discussion		None	
Vote		11 Y 0 N	
Final Action	<input checked="" type="checkbox"/>	Motion passed	
	<input type="checkbox"/>	Motion failed	

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

A&R	<input type="checkbox"/>	Approved for publication	
	<input type="checkbox"/>	Approved pending acceptance of the Ratification Ballot	
	<input type="checkbox"/>	Not approved	
	Reason:		