

Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: **North America**

Global Technical Committee: **Liquid Chemicals**

TC Chapter Cochairs: **Frank Flowers (PeroxyChem)**

Standards Staff: **Inna Skvortsova;**

	Scheduled in Background Statement	Actual
Date	07/12/2016	07/12/2016
Location	San Francisco, CA/USA	San Francisco, CA/USA
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 5944A	Document Title REVISION TO SEMI F63-0213 GUIDE FOR ULTRAPURE WATER USED IN SEMICONDUCTOR PROCESSING
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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:

Voting Interest:	Returned Votes		Distribution		Return Rate	
Letter Ballot	47	÷	78	=	60.3%	≥60%
Intercommittee Ballot	15					
Voting Interest Reject(s)	1		Total Voters with Rejects			1
Voting Interest Accept(s)	31					

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

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: Pall)

Voter Reject 1 (Voter: Mizuno, Takehito, Nihon Pall)

Negative 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.					
		10.7.2 Table 2					
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. 10.7.2 Table 2 - cannot understand what is 'New generation 10nm counters'.					
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 type="checkbox"/>	Negative is related and persuasive. (Needs >1/3 votes to pass.)				
		<input checked="" type="checkbox"/>	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)				
		Reason	Defined in column 3 of Table 2: "... are not fully proven, single source; high cost"				
	Motion by/ 2 nd by	Don Hadder (Intel) / Koh Murai (MegaFluids Systems)					
	Discussion						
	Result of Vote (check one)	14 Y-0 N; Motion passed					
		<input type="checkbox"/>	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	<input type="checkbox"/>	Y	GO TO "Address by Technical Change Option" subsection
		<input checked="" type="checkbox"/>	[Negative is related and not persuasive.] < 2/3		<input type="checkbox"/>	N	GO TO "Final" subsection → (E)
<input type="checkbox"/>		2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)				
<input type="checkbox"/>		90% ≤ [Negative is related and not persuasive.]	GO TO "Not Significant Finding Option" subsection				
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 checked="" type="checkbox"/>	(C)	Related and not persuasive (significant)			
		<input type="checkbox"/>	(D)	Not significant (counted under j in disposition)			

		(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		(F)	Addressed by technical change (counted under k disposition)	
(check if applicable)		Comment generated. See Section V-(ii) Comment # X.		

This table is needed for each Negative.

Negative 2

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.				
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. 10.13 Information source of H2O2 presence in UPW should be clarified in this document.				
TF input (optional)						
Withdrawal (check one)	X	No Negative withdrawal made by Voter.			GO TO "Related" subsection	
		Withdrawal document received by Standards staff on MM/DD/YYYY.			GO TO "Final" subsection → (A)	
Related	X	'Related' is mutually agreed upon. (Needs no motion.)			GO TO "Persuasive" subsection	
		Negative is not related. (Needs ≥2/3 votes to pass.)				
	Reason	XXXX				
Persuasive	Motion and Reason (check one)		Negative is related and persuasive. (Needs >1/3 votes to pass.)			
		X	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)			
		Reason	Source of H ₂ O ₂ presence in UPW is mentioned in "Scope" section 2.3 of SEMI F63-0213 and is also based on public data, including data published by ITRS.			
	Motion by/ 2 nd by	Slava Libman (Air Liquide) / Patrick Connor (Pall Corp.)				
	Discussion	None				
	Result of Vote (check one)	13 Y-1 N; Motion passed.				
			[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)		Y
X		[Negative is related and not persuasive.] < 2/3		X	N	GO TO "Final" subsection → (E)
		2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)			
		90% ≤ [Negative is related and not persuasive.]	GO TO "Not Significant Finding Option" subsection			

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)
0	Number of Negatives addressed by technical change (Negative becomes not significant)	(k)
Final	<input type="checkbox"/>	$g - (h + i + j + k) = 0$ Reject is Not Valid and is not included in the denominator of § VI. <i>Approval Conditions Check</i>
	<input checked="" type="checkbox"/>	$g - (h + i + j + k) > 0$ Reject is included in the denominator of § VI. <i>Approval Conditions Check</i>
	<input type="checkbox"/>	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

There were no other technical issues.

V. Comments

V- (i) Voters' Comments

Commenter 1 (**Vargas-Bernal, Rafael**) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	Number of the subsection 10.12 must not be deleted.	
Action	The TC Chapter agreed to do one of the following actions.	
	*No motion is required in this step.	
	<input type="checkbox"/>	Already addressed by Commenter #, Comment #
	<input checked="" type="checkbox"/>	No further action was taken by the TC Chapter.
	<input type="checkbox"/>	Refer to the TF for more consideration.
	<input type="checkbox"/>	New Business
	<input type="checkbox"/>	Editorial Change

VI. Editorial Changes Other than Those Voted on in § V

None

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

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	=	31	/	32	=	96.9%		≥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.

Motion	<input checked="" type="checkbox"/>	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)
	<input type="checkbox"/>	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)
	<input type="checkbox"/>	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		Frank Flowers (PeroxyChem) / Patrick Connor (Pall Corp.)
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</i> ¶ 8.8.1)	
	X No potentially material patented technology or reproduction of copyrighted items is known.	GO TO SECTION X.

* **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	X	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.
		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		Frank Flowers (PeroxyChem) / Patrick Connor (Pall Corp.)
Discussion		None
Vote		12 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:	