

Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: **North America**

Global Technical Committee: **Liquid Chemicals**

TC Chapter Cochairs: **Don Hadder (INTEL), Frank Flowers (Peroxy Chemicals)**

Standards Staff: **Inna Skvortsova**

	Scheduled in Background Statement	Actual
Date	04/04/2017	04/04/2017
Location	SEMI HQ, Milpitas, California	SEMI HQ, Milpitas, California
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
6129	Revision to SEMI F61-0301 (Reapproved 0309), GUIDE FOR ULTRAPURE WATER SYSTEM USED IN SEMICONDUCTOR PROCESSING with Title Change to: GUIDE TO DESIGN AND OPERATION OF A SEMICONDUCTOR ULTRAPURE WATER SYSTEM

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	48	÷ 80	= 60.0%	≥60%
Intercommittee Ballot	15			
Voting Interest Reject(s)	0	Total Voters with Rejects		0
Voting Interest Accept(s)	35			

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

III. Rejects

No rejects received.

IV. Other Technical Issues

No other technical issues

V. Comments

V- (i) Voters' Comments

Commenter 1 (Murai, Koh/ MegaFluids) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.		
	1.2 HUPW not defined (UPW is in 1.1). Not defined until section 9.1.2 of this document, Not defined in SEMI Compilation of Terms. Appendix 6 - A6-1.2 - Last word should be units, currently is unites.		
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 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 checked="" type="checkbox"/>	Editorial Change	
	Options for editorial change (check one)	<input type="checkbox"/>	Case 1: No vote in this section: To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.
		<input checked="" type="checkbox"/>	Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.
	1	FROM: Section/Paragraph: 1.2 This Guide describes the engineering and component requirements for a UPW system used in semiconductor manufacturing. It is intended to establish a common basis for developing detailed specifications for design, operations, certification, and monitoring of UPW and HUPW systems.	
		TO: Section/Paragraph: 1.2 This Guide describes the engineering and component requirements for a UPW system used in semiconductor manufacturing. It is intended to establish a common basis for developing detailed specifications for design, operations, certification, and monitoring of UPW and Hot Ultrapure Water (HUPW) systems.	
Editorial Changes	Justification (if necessary)		

2	FROM: Section/Paragraph: Appendix 6 / A6-1.2 To prevent interruptions or mitigate their effects, the following redundancy scheme is recommended (see Table A6-1). N factor in the table indicates the minimum total number of the same type unites of equipment required to support design capacity. N+1 implies that in addition to N, there is a need for one additional unit to be installed and ready to operate in the case of the maintenance of one of the N unites.
	TO: Section/Paragraph: Appendix 6 / A6-1.2 To prevent interruptions or mitigate their effects, the following redundancy scheme is recommended (see Table A6-1). N factor in the table indicates the minimum total number of the same type unites of equipment required to support design capacity. N+1 implies that in addition to N, there is a need for one additional unit to be installed and ready to operate in the case of the maintenance of one of the N unites units .
	Justification (If necessary)
Motion	To approve above editorial change(s)
Motion by/2nd by	Koh Murai (Mega Fluids Systems) / Chuck Dale (GE)
Discussion	none
Vote	7 Y-0 N; Motion passed.

V-(ii) Comments Created by Handling Negative

NONE

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

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

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	=	35	/	35	=	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.

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 ¶ 8.7.1</i>)
	<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 ¶ 8.7.2</i>)
	<input type="checkbox"/>	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/2 nd by		Koh Murai (Mega Fluids Systems) / Darren Conner (Parker)
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.

<input checked="" type="checkbox"/>	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>)	
<input checked="" type="checkbox"/>	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	<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 checked="" 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 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	Koh Murai (Mega Fluids Systems) / Chuck Dale (GE)	
Discussion	None	
Vote	7 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:	