

# Record of Line-item Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: [North America](#)

Global Technical Committee: [Liquid Chemicals](#)

TC Chapter Cochairs: [Steve Rogers \(KMG Chemicals\)](#), [Don E. Hadder \(Intel\)](#), [Koh Murai \(Mega Fluid Systems\)](#), [Laura Ledenbach \(Evonik\)](#)

Standards Staff: [Laura Nguyen](#)

	Scheduled in Background Statement	Actual
Date	<a href="#">10/06/2021</a>	<a href="#">10/06/2021</a>
Location	<a href="#">OVTCCM</a>	<a href="#">OVTCCM</a>
Reason for Change of Date and/or Location (if changed)		

Note: See [Regulations ¶ 9.5 Exceptions](#) for allowable reason to change.

## [Document Information](#)

### I. Document Number, Title, Lists of Line Items

Document Number	Document Title	
<a href="#">6714</a>	<a href="#">Line Item Revision to SEMI C93-0620, Guide for Determining the Quality of Ion Exchange Resin Used in Polish Applications of Ultrapure Water System</a>	
List of Line Items	Line Item 1	<a href="#">Line Item Title</a> <a href="#">Editorial corrections.</a>
	Line Item 2	<a href="#">Line Item Title</a> <a href="#">Removed references to laser particle counter (LPC) for static leach and grab samples and added optional LPC analysis for dynamic leach test.</a>
	Line Item 3	<a href="#">Line Item Title</a> <a href="#">Updated all references to non-volatile residue monitoring (NVR/NRM) to optional.</a>
	Line Item 4	<a href="#">Line Item Title</a> <a href="#">Updated reporting of grab sample data from µg/L to µg/g dry resin.</a>
	Line Item 5	<a href="#">Line Item Title</a> <a href="#">Changed requirement of ISO Class 7 environment for test stand location to ISO Class 9.</a>
	Line Item 6	<a href="#">Line Item Title</a> <a href="#">Clarification on background requirements and background subtraction.</a>
	Line Item 7	<a href="#">Line Item Title</a> <a href="#">Added clarification that test column can be made from PFA.</a>

	Line Item 8	<b>Line Item Title</b> Clarified procedure for PSDA sample preparation.
	Line Item 9	<b>Line Item Title</b> Removed reference of static leach with UPW.
	Line Item 10	<b>Line Item Title</b> Added particle precursors to description of N-CPC.

## Line Item 1 Adjudication

### II. Tally

**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 ¶ 9.6.2.1.1)**

Voting Tally (with example values):

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	63	÷ 97	= 64.9%	≥60%
Intercommittee Ballot	30			
Voting Interest Reject(s)	0	Total Voters with Rejects		0
Voting Interest Accept(s)	39			

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

### III. Rejects

**None**

### IV. Other Technical Issues

**None**

### 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 ¶ 9.6.2.1.2*)

**APPROVAL CONDITION 2:** At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations ¶ 9.6.2.1.3*)

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

		Accepts		(Accepts + Valid Rejects)					
Approval Rate	=	39	/	39	=	100.0%		≥90%	

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

**Note:** See *Regulations § 9.6.2* for further information.

**Globally Approved (No Ratification Ballot needed):**

Line Item 1 meets the Letter Ballot approval conditions for the global technical committee.

**Need a Ratification Ballot:**

Line Item 1 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

## Line Item 2 Adjudication

### II. Tally

**Voting Tally:** As-cast tally after close of voting period

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

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	63	÷ 97	= 64.9%	≥60%
Intercommittee Ballot	30			
Voting Interest Reject(s)	0	Total Voters with Rejects		0
Voting Interest Accept(s)	37			

### III. Rejects

**None**

### IV. Other Technical Issues

**None**

## 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

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

		Accepts		(Accepts + Valid Rejects)					
Approval Rate	=	37	/	37	=	100.0%		≥90%	

### II. – (ii) Approval Level (check one)

Note: See *Regulations* § 9.6.2 for further information.

**Globally Approved (No Ratification Ballot needed):**

Line Item 2 meets the Letter Ballot approval conditions for the global technical committee.

**Need a Ratification Ballot:**

Line Item 2 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

## Line Item 3 Adjudication

### II. Tally

**Voting Tally: As-cast tally after close of voting period**

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

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	63	÷ 97	= 64.9%	≥60%
Intercommittee Ballot	30			
Voting Interest Reject(s)	0	Total Voters with Rejects		0
Voting Interest Accept(s)	36			

### III. Rejects

None

## IV. Other Technical Issues

None

## V. Comments

### V- (i) Voters' Comments

Commenter 1 (Terry Francis/Self) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	<i>Do not have data that is not confidential. so will only make a comment. Experiencing problem with Organics at ppt levels on leading edge cleans. Some indication that it is Ion Exchange related.</i>	
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	

### 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

		Accepts		(Accepts + Valid Rejects)					
Approval Rate	=	36	/	36	=	100.0%		≥	90%

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

**Globally Approved (No Ratification Ballot needed):**

Line Item 3 meets the Letter Ballot approval conditions for the global technical committee.

**Need a Ratification Ballot:**

Line Item 3 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

**Line Item 4 Adjudication**

**II. Tally**

**Voting Tally: As-cast tally after close of voting period**

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	63	÷ 97	= 64.9%	≥60%
Intercommittee Ballot	30			
Voting Interest Reject(s)	0	Total Voters with Rejects		0
Voting Interest Accept(s)	38			

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

**III. Rejects**

**None**

**IV. Other Technical Issues**

**None**

**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**

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

		Accepts		(Accepts + Valid Rejects)					
Approval Rate	=	38	/	38	=	100.0%		≥90%	

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

Note: See Regulations § 9.6.2 for further information.

**Globally Approved (No Ratification Ballot needed):**

Line Item 4 meets the Letter Ballot approval conditions for the global technical committee.

**Need a Ratification Ballot:**

Line Item 4 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

## Line Item 5 Adjudication

### II. Tally

Voting Tally: **As-cast tally after close of voting period**

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	63	97	64.9%	≥60%
Intercommittee Ballot	30			
Voting Interest Reject(s)	0	Total Voters with Rejects		0
Voting Interest Accept(s)	34			

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

### III. Rejects

**None**

### IV. Other Technical Issues

**None**

### 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

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	34	/	34	=	100.0%	≥90%

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

Note: See Regulations § 9.6.2 for further information.

**Globally Approved (No Ratification Ballot needed):**

Line Item 5 meets the Letter Ballot approval conditions for the global technical committee.

**Need a Ratification Ballot:**

Line Item 5 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

## Line Item 6 Adjudication

## II. Tally

Voting Tally: As-cast tally after close of voting period

Voting Interest:	Returned Votes		Distribution		Return Rate	
Letter Ballot	63	÷	97	=	64.9%	≥60%
Intercommittee Ballot	30					
Voting Interest Reject(s)	0		Total Voters with Rejects		0	
Voting Interest Accept(s)	38					

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

## III. Rejects

None

## IV. Other Technical Issues

None

## 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

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	38	/	38	=	100.0%	≥90%

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

Note: See Regulations § 9.6.2 for further information.

Globally Approved (No Ratification Ballot needed):

Line Item 6 meets the Letter Ballot approval conditions for the global technical committee.

Need a Ratification Ballot:

Line Item 6 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

Line Item 7 Adjudication

II. Tally

Voting Tally: As-cast tally after close of voting period

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	63	÷ 97	= 64.9%	≥60%
Intercommittee Ballot	30			
Voting Interest Reject(s)	0	Total Voters with Rejects		0
Voting Interest Accept(s)	39			

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

III. Rejects

None

IV. Other Technical Issues

None

## 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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	39	/	39	=	100.0%	≥90%

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

**Globally Approved (No Ratification Ballot needed):**

Line Item 7 meets the Letter Ballot approval conditions for the global technical committee.

**Need a Ratification Ballot:**

Line Item 7 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

## Line Item 8 Adjudication

## II. Tally

Voting Tally: **As-cast tally after close of voting period**

Voting Interest:	Returned Votes		Distribution		Return Rate	
Letter Ballot	63	÷	97	=	64.9%	≥60%
Intercommittee Ballot	30					
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

None

#### IV. Other Technical Issues

None

#### 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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	35	/	35	=	100.0%	≥90%

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

**Globally Approved (No Ratification Ballot needed):**

Line Item 8 meets the Letter Ballot approval conditions for the global technical committee.

**Need a Ratification Ballot:**

Line Item 8 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

#### Line Item 9 Adjudication

#### II. Tally

Voting Tally: **As-cast tally after close of voting period**

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	63	÷ 97	= 64.9%	≥60%
Intercommittee Ballot	30			
Voting Interest Reject(s)	0	Total Voters with Rejects		0
Voting Interest Accept(s)	39			

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

### III. Rejects

None

### IV. Other Technical Issues

None

### 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

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

		Accepts		(Accepts + Valid Rejects)					
Approval Rate	=	36	/	36	=	100.0%		≥90%	

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

Note: See Regulations § 9.6.2 for further information.

**Globally Approved (No Ratification Ballot needed):**

Line Item 9 meets the Letter Ballot approval conditions for the global technical committee.

**Need a Ratification Ballot:**

Line Item 9 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

**Line Item 10 Adjudication**

**II. Tally**

**Voting Tally: As-cast tally after close of voting period**

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	63	÷ 97	= 64.9%	≥60%
Intercommittee Ballot	30			
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**

**None**

**IV. Other Technical Issues**

**None**

**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**

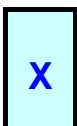
**VII. - (i). Approval Rate**

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

		Accepts		(Accepts + Valid Rejects)		
Approval Rate	=	35	/	35	=	100.0%
						≥90%

**II. – (ii) Approval Level (check one)**

Note: See Regulations § 9.6.2 for further information.



**Globally Approved (No Ratification Ballot needed):**  
 Line Item 10 meets the Letter Ballot approval conditions for the global technical committee.

**Need a Ratification Ballot:**

Line Item 10 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

**Checks for Entire Document Including All Approved Line Items**

**VIII. Safety Check**

Note: This Safety check applies to the entire Standard or Safety Guideline including all the approved Line Items. See § 15 of the Regulations for further information.

<b>Motion</b>	<b>X</b>	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)
<b>Motion by/2<sup>nd</sup> by</b>	Chuck Dale (SUEZ) / Jim Cannon (Mettler Toledo Thornton)	
<b>Discussion</b>	None	
<b>Vote</b>	16 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. Regardless of the coverage, this IP check applies to the entire Standard or Safety Guideline including all the approved Line Items\*. See Regulations § 16 for further information.

<b>X</b>	The TC Chapter meeting chair asked those participating, if they were aware of any patented technology that might be relevant (see Regulations ¶ 16.3.1.1) to the Standard or Safety Guideline; or, any copyrighted items or trademarks that are used/reproduced (see Regulations ¶ 16.4.1.2) in the Standard or Safety Guideline. (Also see, Regulations § 8.8)	
<b>X</b>	The question is NOT answered in affirmative (No potentially material patented technology or use/reproduction of copyrighted items/trademarks is known.)	<b>GO TO SECTION X.</b>

**X. Action for This Document**

<b>Motion (Check all applicable items)</b>	<b>X</b>	Line item(s) [1], [2], [3], [4], [5], [6], [7], [8], [9], and [10] passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
<b>Motion by/ 2nd by</b>	Bob McIntosh (GF Piping Systems) / Paul Kerr (Intel)	
<b>Discussion</b>	None.	
<b>Vote</b>	16 Y- 0 N	
<b>Final Action</b>	<b>X</b>	Motion passed
		Motion failed

Note: If the use of PMPT or copyrighted item is justified by the TC Chapter, LOA or release form must be received before publication can proceed.